

26 July 2024

TECHNICAL MEMORANDUM

TO: James Kruegler, Project Manager
Samantha Salotto, P.E., Chief Remedial Section C

FROM: Hilary Williams, EA Project Manager

RE: April 2024 Groundwater, Surface Water, and Sediment Sample Data Summary
West Islip, Suffolk County, New York, NYSDEC Site No. 152033
Contract/Work Assignment No. D009806-15
EA Project No. 16025-15-00-CP

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) were tasked by the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment Number (No.) D009806-15 to complete monitoring and sampling activities associated with the site management conducted at the Dzus Fastener Company, Inc. Site (152033). EA conducted groundwater, surface water, and sediment sampling with site inspections from 1 to 3 April 2024 for NYSDEC at the Dzus Fastener Company, Inc. Site, hereinafter referred to as the Site, in accordance with the Site Management Plan (EA 2023).¹ A summary of environmental media samples is presented in **Table 1**. Water level measurements were collected from each groundwater monitoring well in the site network. Monitoring well inspections and an overall site inspection were also completed.

1. STANDARDS, CRITERIA, AND GUIDANCE

Standards, criteria, and guidance (SCGs) are published requirements and non-published guidance, which govern activities that may affect the environment and are widely used at different stages of an investigation and remediation of a site. A standard is a value that has been published and placed into regulation. A guidance value may be used where a standard for a substance or group of substances has not been established for a particular media and type of value. It is important to recognize that SCGs have different applications, with some values appropriate for evaluating risk to ecological receptors and others appropriate for evaluating human health exposures. The analytical data collected during this Site Management sampling effort were evaluated using the following SCGs:

- **Groundwater**
 - **SCG = Standard:** NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values, Class GA groundwater standard (NYSDEC 1998)
 - **Application:** Human Health Risk.

¹ EA Engineering, P.C. and its affiliate EA Science and Technology (EA). 2023. *Site Management Plan, Revision 2, Dzus Fastener Company, Inc. Site (150233), West Islip, New York*. July.

- Protection for groundwater as a source of drinking water.
- Note that Willetts Creek, Lake Capri, and groundwater in the area are not used as a source of potable water. Potable water in the area is supplied by the Suffolk County Water Authority which tests and treats drinking water to ensure that it meets and often surpasses all state, federal, and local water quality regulations. Use of the Class GA value provides a conservative comparison point.
- **Values:**
 - Cadmium (5 micrograms per liter [$\mu\text{g/L}$])
 - Chromium (50 $\mu\text{g/L}$)
- **Surface Water**
 - All waters in NYS are assigned a letter classification that denotes their "best uses" (e.g., fishing, swimming, source of drinking water). Willetts Creek is defined as a Class C water body, meaning the best usage is fishing, although fishing opportunities in Willetts Creek are limited due to restricted access and the relatively small size of the waterbody. Class C waters shall be suitable for fish, shellfish and wildlife propagation and survival. Class C water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.
 - **SCG = Standard:** NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values, Class C Water, Type A(C) (NYSDEC 1998)
 - **Application:** Ecological Risk.
 - Values for protection of aquatic life from potential chronic effects are designated Aquatic (Chronic) and noted as A(C).
 - **Values:**
 - Standards are hardness-specific and apply only to the dissolved form (not total).
 - Cadmium (range of 1.35 to 1.53 $\mu\text{g/L}$ for April 2024)
 - Chromium (range of 46.8 to 53.4 $\mu\text{g/L}$ for April 2024)
 - **SCG = Standard:** NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values, Class A Water, Type H(WS) (NYSDEC 1998)
 - The best usages of Class A waters are: a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing.
 - Note that surface water from Willetts Creek and Lake Capri is not used as a source of potable water. Comparison to the Class A standard is for informational purposes only to provide context for established drinking water criteria.
 - **Application:** Human Health Risk.
 - Values for protection of sources of drinking water are designated Health (Water Source) and noted by H(WS).

- **Values:**
 - Cadmium (5 µg/L)
 - Chromium (5 µg/L)
- **Sediment**
 - **SCG = Guidance:** NYSDEC Freshwater Sediment Guidance Values (SGV) (NYSDEC 2014)
 - **Application:** Ecological Risk.
 - Guidance classifies the sediment as Class A (low risk to aquatic life), Class B (potential risk to aquatic life), or Class C (likely risk to aquatic life).
 - **Values:**
 - Class A: low risk to aquatic life
 - Cadmium (less than 1 mg/kg)
 - Chromium (less than 43 mg/kg).
 - Class B: potential risk to aquatic life; additional testing required to evaluate risk
 - Cadmium (1 – 5 mg/kg)
 - Chromium (43 – 110 mg/kg).
 - Class C: likely risk to aquatic life
 - Cadmium (greater than 5 mg/kg)
 - Chromium (greater than 110 mg/kg).

2. GROUNDWATER SAMPLE COLLECTION AND RESULTS

EA collected samples from 2 to 3 April 2024 from 14 groundwater monitoring wells (MW-1, MW-2, MW-9, MW-9B, MW-13A, MW-13B, MW-15A, MW-15B, MW-17, MW-18, MW-22A, MW-22B, MW-23A, and MW-23B) at the Site (**Figure 1**). A field duplicate sample was collected at MW-13A. MW-3 was under a large puddle of surface water and could not be sampled in a way that would retain sample quality.

The 14 monitoring wells were gauged to develop shallow and deep potentiometric surface contour figures (**Figures 2 and 3**). Groundwater elevations in April 2024 at all monitoring wells were higher than the elevations reported in November 2023. This may be a result of recharge in the aquifer due to heavy rain in the region prior to the synoptic gauging event. Groundwater at the Site generally flows south/southeast and some discharges into/communicates with Willetts Creek behind the Captree Plaza.

Filtered and un-filtered groundwater samples were analyzed for total and dissolved Target Analyte List Metals (including mercury) via U.S. Environmental Protection Agency (EPA) Method 6010. In some samples, dissolved metal concentrations exceed total metal concentrations; this has been observed in previous sampling results. Note that this has not been the case for cadmium or chromium results. During the April 2024 sampling effort, the field team composited groundwater aliquots into a 1-liter container that was then split into a filtered and unfiltered sample in an attempt to avoid this anomaly. The observed difference between filtered and unfiltered results from the April 2024 effort is likely a result of variability in laboratory instrumentation. Cadmium (total and

dissolved), iron (total and dissolved), manganese (total and dissolved), and sodium (total and dissolved) exceeded New York State (NYS) Class GA groundwater standards.

Total cadmium in groundwater samples exceeded the NYS Class GA groundwater standard of 5 µg/L at monitoring wells MW-1 (5.5 µg/L), MW-9 (49 µg/L), MW-13A (540 µg/L), and MW-15A (27 µg/L). Dissolved cadmium exceedances in groundwater samples were observed at monitoring wells MW-9 (48 µg/L) and MW-13A (500 µg/L). Total and dissolved chromium did not exceed Class GA groundwater standards in any of the wells. Groundwater analytical results and comparable NYS Class GA groundwater standards are summarized in **Table 2** and on **Figure 4**.

An increase in cadmium concentrations within the shallow groundwater plume was observed beginning in October 2021. Total cadmium exceeded Class GA groundwater standards at MW-13A with a concentration of 547 µg/L. A confirmation sample of the same well in July 2022 yielded cadmium concentration of 830 µg/L. The concentration of 430 µg/L observed in January 2023 shows the cadmium concentration at MW-13A decreasing substantially, but still above historical concentrations. A slight rebound of cadmium was observed during the June 2023 and November 2023 sampling, as concentrations increased to 530 µg/L and 550 µg/L, respectively. The cadmium result of 540 µg/L in April 2024 is consistent with the previous two sampling events. **Figure 5** shows concentration trends for cadmium and chromium in MW-13A from June 2006 through April 2024.

3. SURFACE WATER SAMPLE COLLECTION AND RESULTS

EA collected surface water samples from six locations (SW-01, SW-02, SW-04, SW-11, SW-13, and SW-14) in Willetts Creek (**Figure 1**). A field duplicate sample was collected at the SW-01 location.

The field-filtered surface water samples were analyzed for dissolved cadmium and chromium via EPA Method 6010. The unfiltered surface water sample at the same locations were analyzed for total hardness via EPA Method 6010.

Total hardness of surface water samples ranged from 57 to 67 milligrams per liter. Hardness in surface water was used in accordance with NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (NYSDEC 1998)² to calculate site-specific hardness-corrected chronic surface water standards for dissolved forms of cadmium and chromium. Dissolved cadmium was detected above the individual sample's site-specific hardness-corrected chronic surface water standard in five of six samples (SW-01, SW-04, SW-06, S-13, and SW-14). Dissolved chromium was not detected in surface water samples. Surface water analytical results and comparable site-specific hardness-corrected surface water standards are summarized in **Table 3** and **Figure 6**.

² New York State Department of Environmental Conservation (NYSDEC). 1998. *Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*. Division of Water, Albany, New York.

4. SEDIMENT SAMPLE COLLECTION AND RESULTS

On 1 April 2024, EA collected composite sediment samples from 14 locations (SD-01, SD-02, SD-03, SD-04, SD-05, SD-06, SD-07, SD-08, SD-09, SD-10, SD-11, SD-12, SD-13, and SD-14) in Willetts Creek (**Figure 1**) to evaluate the extent of cadmium and/or chromium migration along the creek corridor. The SD-01 location represents the historical hotspot for cadmium in sediment, prior to remedial action. Concentrations at this location were observed to be as high as 8,200 mg/kg prior to the 2020 remedial action (EA 2017)³. A field duplicate sample was collected at the SD-01 location. Sediment samples were analyzed for total cadmium and total chromium via EPA Method 6010.

Sediment samples were screened against the SGVs to classify into Class A, B, or C sediments. Sediment samples from SD-05, SD-09, SD-10, SD-11, SD-13, and SD-14 fall within the Class A range for cadmium. Sediment samples from SD-02, SD-03, SD-04, SD-07, SD-08, and SD-12 fall within the Class B range for cadmium. Sediment samples from SD-01 and SD-06 fall within the Class C range for cadmium. All sediment samples are classified as Class A for chromium. Sediment analytical results and comparable NYSDEC SGVs are summarized in **Table 4** and on **Figure 6**.

5. INSPECTION RESULTS

Monitoring well inspections and an overall site inspection were completed during the field effort. In general, monitoring wells were noted to be in good condition with no wells noted to require repair. The site inspection included review of appearance and conditions at OU1, Willetts Creek, and Lake Capri. Besides some general litter across the site, the site was in good condition with no indication of vandalism, evidence of erosion/digging, or illegal disposal. It was noted that as part of the redevelopment activities taking place at OU1, the asphalt cap area had been paved (see Section 6 for greater detail on the recent history of the asphalt cap).

Inspection of the Willetts Creek corridor showed evidence of rip-rap being moved at the Burling Lane footbridge and some areas adjacent to the creek had been mowed. There were no signs of stressed vegetation, minimal evidence of invasive species (e.g., phragmites), and no signs of ground burrowing animals. There was also no evidence of damage, debris, or build-up of material in drainage pipes. Inspection of Lake Capri showed no evidence of erosion or digging in the bank along Montauk Highway and vegetation on the bank was not observed to be stressed or withered; rather vegetation was robust and healthy.

6. CONCLUSIONS AND RECOMMENDATIONS

During a site visit on 22 April 2021, EA personnel observed that the asphalt cap at OU1 had been removed by the site developer (EA 2023).⁴ The asphalt cap is an engineering control included in the Site Management Plan (EA 2023)¹ and a component of the remedy which serves to limit

³ EA. 2017. *Final OU3 Remedial Investigation Report, Former Dzus Fastener Company, Inc. Site (152033), West Islip, New York*.

⁴ EA. 2023. *2021 Monitoring and Inspection Report, Former Dzus Fastener Company, Inc. Site (152033), West Islip, New York*.

infiltration and erosion at the Site. Sampling results from October 2021 indicated an increase of cadmium concentrations in shallow groundwater highlighted by the 547 µg/L observed in MW-13A; up from 2.3 µg/L observed in November 2018 (AECOM 2019).⁵ Removal of the asphalt cap at OU1 potentially allowed for surface water to infiltrate the OU1 treatment cell, mobilizing cadmium into the shallow groundwater. Groundwater at the Site flows in a southeast direction and some discharges into/communicates with Willetts Creek. Cadmium in the shallow groundwater plume appears to be adsorbing to clean backfill material placed during the remedial action along the creek in 2019 as evidenced by sediment exceedances of Class C SGVs in the upper reaches of Willetts Creek.

Continued groundwater sampling is recommended to monitor the migration and possible attenuation of the cadmium plume. EA plans to continue sampling groundwater, surface water, and sediment on a quarterly schedule, with the next event planned for June 2024. EA is completing a supplemental groundwater investigation at the Site to increase resolution of contaminant distribution in the aquifer, better delineate the dissolved-phase cadmium plume, and refine the conceptual site model.⁶ Results from the investigation and Quarter 2 sampling effort will aid in the development and design of an interim remedial measure to address groundwater contamination.

Surface water and sediment analytical results indicate that cadmium from groundwater is continuing to discharge into Willetts Creek and mobilize downstream. Sediments in Willetts Creek with cadmium exceedances of Class C values are focused in the SD-01 (historical hot spot) area. Sediment samples in SD-13 and SD-14 indicate that cadmium has not yet deposited in sediments in the far south reaches of the creek. Surface water results at SW-13 and SW-14 indicate that the dissolved cadmium is moving to lower reaches of the creek. Proposed sediment and surface water sampling locations for the June 2024 quarterly monitoring event are presented in **Figure 7**. The sampling program proposed is the same as the Quarter 1 event with the addition of three collocated surface water and sediment locations on the eastern edge of Willetts Creek in the vicinity of SD-01 where the creek widens.

Additional lines of evidence such as simultaneously extracted metals (SEM) to acid volatile sulfide (AVS) ratios, total organic carbon, and toxicity testing can provide further insight into the overall bioavailability and toxicity of a contaminant of concern. The bioavailability of divalent metals to aquatic organisms is influenced by the ratio of SEM/AVS. In low oxygenated environments, metals may precipitate with sulfides, making them unavailable for uptake by aquatic and benthic organisms. EA recommends evaluating the benefit of completing analysis of SEM-AVS ratios, total organic carbon sampling, and toxicity testing on sediments collected from the wetland immediately adjacent to Willetts Creek in the historical hot spot area (where inundation is observed) to provide further insight into the overall bioavailability and toxicity of the cadmium present at the Site. An additional round of pore water (interstitial) sampling may also be considered to supplement the existing data.

⁵ AECOM. 2019. *Final Groundwater Sampling Report (November 2018 Sampling Event)*, Dzus Fasteners Site, Site #I-52-033.

⁶ EA Engineering, P.C. and its Affiliate EA Science and Technology (EA). 2024. *Letter Workplan for Groundwater Investigation Phase I, Former Dzus Fastener Company, Inc. Site (152033), West Islip, New York*.

Tables

1	Sample Collection and Analyses Summary
2	Groundwater Analytical Results
3	Surface Water Analytical Results
4	Sediment Analytical Results

Figures

1	Monitoring Locations
2	Shallow Potentiometric Surface Contours
3	Deep Potentiometric Surface Contours
4	Groundwater Analytical Results
5	MW-13A: Metal Concentrations Over Time (June 2006 – April 2024)
6	Surface Water and Sediment Analytical Results
7	Proposed Q2 2024 Monitoring Locations

Attachments

A.	Field Book Log
B.	Chain-of-Custody
C.	Laboratory Reports
D.	Field Forms

Tables

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Table 1. Sample Collection and Analyses Summary

Samples	Sample Matrix	Total TAL Metals via EPA Method 6010	Dissolved TAL Metals via EPA Method 6010	Total Mercury via EPA Method 7470A	Dissolved Mercury via EPA Method 7470A	Total Cadmium and Chromium via EPA Method 6010	Dissolved Cadmium and Chromium via EPA Method 6010	Hardness via EPA Method 6010
GROUNDWATER SAMPLING								
Number of Parent Samples	Groundwater	14	14	14	14			
Field Duplicate		1	1	1	1			
Matrix Spike/Matrix Spike Duplicate		1	1	1	1			
Total Number of Analyses		17	17	17	17			
SURFACE WATER SAMPLING								
Number of Parent Samples	Willets Creek Surface Water						6	6
Field Duplicate							1	1
Matrix Spike/Matrix Spike Duplicate							1	1
Total Number of Analyses							8	8
SEDIMENT SAMPLING								
Number of Parent Samples	Willets Creek Surficial Sediment					14		
Field Duplicate						1		
Matrix Spike/Matrix Spike Duplicate						1		
Total Number of Analyses						17		

Notes:
EPA = U.S. Environmental Protection Agency
PFAS = Per- and polyfluoroalkyl substances
TAL = Target Analyte List

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Table 2 Groundwater Analytical Results

Location ID			MW-01	MW-02	MW-09	MW-09B	MW-13A	MW-13A	MW-13B	MW-15A	MW-15B	MW-17	MW-18	MW-22A	MW-22B	MW-23A	MW-23B
Sample Name			152033-SM-MW-1-04032024	152033-SM-MW-2-04032024	152033-SM-MW-9-04022024	152033-SM-MW-9B-04022024	152033-SM-MW-13A-04022024	152033-SM-MW-FD-04022024	152033-SM-MW-13B-04022024	152033-SM-MW-15A-04032024	152033-SM-MW-15B-04032024	152033-SM-MW-17-04032024	152033-SM-MW-18-04032024	152033-SM-MW-22A-04022024	152033-SM-MW-22B-04022024	152033-SM-MW-23A-04022024	152033-SM-MW-23B-04022024
Sample Date			4/3/2024	4/3/2024	4/2/2024	4/2/2024	4/2/2024	4/2/2024	4/2/2024	4/3/2024	4/3/2024	4/3/2024	4/3/2024	4/2/2024	4/2/2024	4/2/2024	4/2/2024
Parent Sample								152033-SM-MW-13A-04022024									
Analyte	NY CLASS GA GW(AWQS)	Unit															
Total Metals (SW6010C/SW6020B/SW7471B)																	
Aluminum	NS	mg/L	0.044 J	0.044 J	0.33	0.28	0.97	0.9	0.042 J	0.072	< 0.02 U	0.075	0.048 J	0.049 J	< 0.02 U	0.2	1.6
Antimony	0.003	mg/L	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U
Arsenic	0.025	mg/L	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U
Barium	1	mg/L	0.025 J	0.044 J	0.023 J	0.014 J	0.051	0.049 J	0.032 J	0.012 J	0.040 J	0.013 J	0.0076 J	0.020 J	0.034 J	0.016 J	0.031 J
Beryllium	0.003	mg/L	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
Cadmium	0.005	mg/L	0.0055	0.004	0.049	< 0.0013 U	0.54	0.52	< 0.0013 U	0.027	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	0.0048	0.0031 J
Calcium	NS	mg/L	19	32	53	7.7	31	8.8	15	12	19	16	26	24	28	7.8	
Chromium	0.05	mg/L	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	0.018	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U
Cobalt	NS	mg/L	0.0047 J	< 0.0017 U	< 0.0017 U	0.0064 J	0.0059 J	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	0.0069 J	< 0.0093 U
Copper	0.2	mg/L	< 0.0095 U	< 0.0095 U	0.011	< 0.0095 U	0.051	0.042	0.011	0.011	< 0.0095 U	0.0095 J	< 0.0095 U	0.011	0.01	0.033	0.039
Iron	0.3	mg/L	0.79	0.054	0.3	0.36	5.5	5.1	0.11	0.14	2.3	0.076	0.062	2.1	3.7	1.4	3.5
Lead	0.025	mg/L	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	0.015	0.013	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	0.0076 J
Magnesium	35	mg/L	2.7	4	5.7	1.3	5.4	5.5	1.3	1.6	5.2	1.6	5.8	5	4	5.1	1.8
Manganese	0.3	mg/L	0.54	0.0034 J	0.21	0.017	0.31	0.28	0.021	0.47	0.13	< 0.0028 U	0.18	0.19	1.3	0.13	0.082
Mercury	0.0007	mg/L	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U
Nickel	0.1	mg/L	0.0025 J	< 0.0024 U	< 0.0024 U	< 0.0024 U	0.0078 J	0.0070 J	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	0.0065 J
Potassium	NS	mg/L	2.2	3.3	5.7	1.5 J	3.3	3.7	1.5 J	1.8 J	1.4 J	1.5 J	0.71 J	0.86 J	2.5	4	0.85 J
Selenium	0.01	mg/L	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Silver	0.05	mg/L	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U
Sodium	30	mg/L	32	55	24	13	60	61	14	11	37	13	5.6	65	16	38	10
Thallium	0.0005	mg/L	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Vanadium	NS	mg/L	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	0.0093 J	0.0081 J	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	0.012
Zinc	2	mg/L	0.06	< 0.004 U	< 0.004 U	< 0.004 U	0.11	0.1	< 0.004 U	< 0.004 U	< 0.004 U	0.0048 J	< 0.004 U	0.079	< 0.004 U	0.0090 J	0.18
Dissolved Metals (SW6010C/SW6020B/SW7470)																	
Aluminum	NS	mg/L	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.035 J	< 0.02 U	0.072	< 0.02 U
Antimony	0.003	mg/L	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U
Arsenic	0.025	mg/L	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U	< 0.0073 U
Barium	1	mg/L	0.023 J	0.044 J	0.022 J	0.013 J	0.033 J	0.033 J	0.0086 J	0.041 J	0.014 J	< 0.0057 U	0.021 J	0.022 J	0.015 J	0.0094 J	
Beryllium	0.003	mg/L	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
Cadmium	0.005	mg/L	0.005	0.0040 J	0.048	< 0.0013 U	0.5	0.48	< 0.0013 U	0.0014 J	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U	< 0.0013 U
Calcium	NS	mg/L	19	32	53	8	33	9.2	16	13	20	16	32	25	28	5.9	
Chromium	0.05	mg/L	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	0.018	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U	< 0.0093 U
Cobalt	NS	mg/L	0.0044 J	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U
Copper	0.2	mg/L	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	0.0073 J
Iron	0.3	mg/L	0.045 J	< 0.023 U	< 0.023 U	< 0.023 U	0.11	0.1	< 0.023 U	< 0.023 U	2.3	< 0.023 U	< 0.023 U	1.8	< 0.023 U	0.88	< 0.023 U
Lead	0.025	mg/L	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U	< 0.0065 U
Magnesium	35	mg/L	2.8	4.2	5.6	1.4	5.1	5.1	1.5	1.7	5.5	1.7	6	4.2	5.2	0.92	
Manganese	0.3	mg/L	0.52	< 0.0028 U	0.2	0.011	0.048	0.046	0.012	< 0.0028 U	0.14	< 0.0028 U	< 0.0028 U	0.21	0.44	0.13	0.0031 J
Mercury	0.0007	mg/L	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U	< 0.00012 U
Nickel	0.1	mg/L	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	0.0027 J	0.0024 J	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U	< 0.0024 U
Potassium	NS	mg/L	2.0 J	2.8	5.7	1.4 J	3.6	3.7	1.5 J	1.9 J	1.4 J	1.5 J	0.72 J	0.79 J	2.5	4.1	0.54 J
Selenium	0.01	mg/L	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Silver	0.05	mg/L	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 U
Sodium	30	mg/L	29	51	23	11	58	58	12	9.7	34	12	5.2	56	14	37	9.4
Thallium	0.0005	mg/L	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Vanadium	NS	mg/L	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U	< 0.0071 U
Zinc	2	mg/L	0.041	< 0.008 U	< 0.008 U	< 0.008 U	0.016	0.011	< 0.008 U	< 0.008 U	< 0.008 U	< 0.008 U	< 0.008 U	0.087	< 0.008 U	< 0.008 U	0.036

Notes:

µg/L = Microgram(s) per liter
ng/L = Nanogram(s) per liter
FD = Field duplicate
ID = Identification
NA = Not Analyzed
J = Estimated value
NY CLASS GA GW(AWQS) = New York State Department of Environmental Conservation Groundwater Guidance Values (June 2014)
NS = No Standard
U = Qualifier denotes the analyte was analyzed but not detected.

Bold and shaded values exceed the New York GA SW standard.

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Table 3 Surface Water Analytical Results

Location ID		SW-01	SW-01	SW-04	SW-06	SW-11	SW-13	SW-14
Sample Name		152033-SM-SW-01-04012024	152033-SM-SW-FD-04012024	152033-SM-SW-04-04012024	152033-SM-SW-06-04012024	152033-SM-SW-11-04012024	152033-SM-SW-13-04012024	152033-SM-SW-14-04012024
Sample Date		4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024
Parent Sample			152033-SM-SW-01-04012024					
Analyte	Unit							
Total Hardness (SW6010)								
Total Hardness	mg/L	67	66	61	64	66	57	58
NYS AWQS Class C Aquatic (Chronic) Hardness-Corrected Standard								
Cadmium ¹	µg/L	1.53	1.51	1.42	1.47	1.51	1.35	1.36
Chromium ¹	µg/L	53.4	52.7	49.4	51.4	52.7	46.8	47.4
Dissolved Metals (SW6010)								
Cadmium	µg/L	18	18	5.0	16	<1.5 U	1.9 J	2.6 J
Chromium	µg/L	<5.3 U	<5.3 U	<5.3 U	<5.3 U	<5.3 U	<5.3 U	<5.3 U

Notes:

¹ Site-specific chronic hardness-corrected surface water standard for dissolved forms.

FD = Field duplicate

ID = Identification

mg/L = Milligram(s) per liter

NYS AWQS Class C = New York State Ambient Water Quality Standard for Class C Waters

NA = Not analyzed

NS = No standard

J = Qualifier denotes an estimated concentration.

U = Qualifier denotes the analyte was analyzed but not detected. Detection limit provided.

Bold values exceed the New York State AWQS standard.

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Table 4 Sediment Analytical Results

Location ID					SD-01	SD-01	SD-02	SD-03	SD-04	SD-05	SD-06	SD-07	SD-08	SD-09	SD-10	SD-11	SD-12	SD-13	SD-14
Sample Name					152033-SM-SD-01-04012024	152033-SM-SD-FD-04012024	152033-SM-SD-02-04012024	152033-SM-SD-03-04012024	152033-SM-SD-04-04012024	152033-SM-SD-05-04012024	152033-SM-SD-06-04012024	152033-SM-SD-07-04012024	152033-SM-SD-08-04012024	152033-SM-SD-09-04012024	152033-SM-SD-10-04012024	152033-SM-SD-11-04012024	152033-SM-SD-12-04012024	152033-SM-SD-13-04012024	152033-SM-SD-14-04012024
Sample Date					4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024	4/1/2024
Parent Sample						152033-SM-SD-01-04012024													
Analyte	NYSDEC FRESHWATER SGV				Unit														
	Class A	Class B	Class C																
Total Metals (SW6010)																			
Cadmium, Total	<1	1 - 5	>5	mg/kg	14	14	4.4	3.4	3.1	<0.20 U	11	4.9	4.0	<0.19 U	0.25 J	<0.19 U	2.8	0.41	<0.19 U
Chromium, Total	<43	43 - 110	>110	mg/kg	8.6 J	8 J	17 J	3.4 J	2.9 J	3.1 J	14 J	3.1 J	4.4 J	2.4 J	4.8 J	2.6 J	2.8 J	1.5 J	0.71 J

Notes:

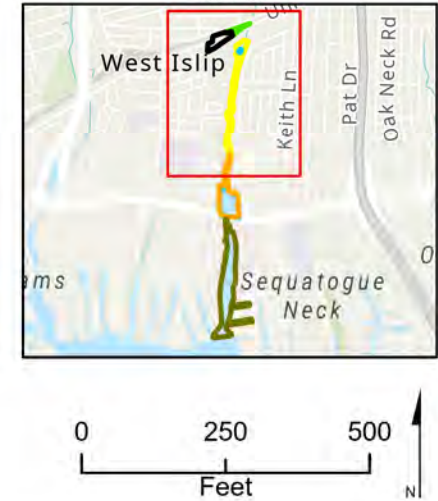
FD =Field duplicate
ID = Identification
mg/kg = Milligram(s) per kilogram
NYSDEC Freshwater SGV = New York State Department of Environmental Conservation Sediment Freshwater & Saltwater Guidance Values (June 2014).
J = Qualifier denotes an estimated concentration.
U = Qualifier denotes the analyte was analyzed but not detected. Detection limit provided.

Bold values are Class B sediments
Bold and highlighted values are Class C sediments

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Figures

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Legend

Operable Units

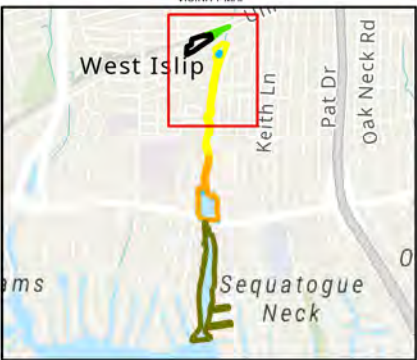
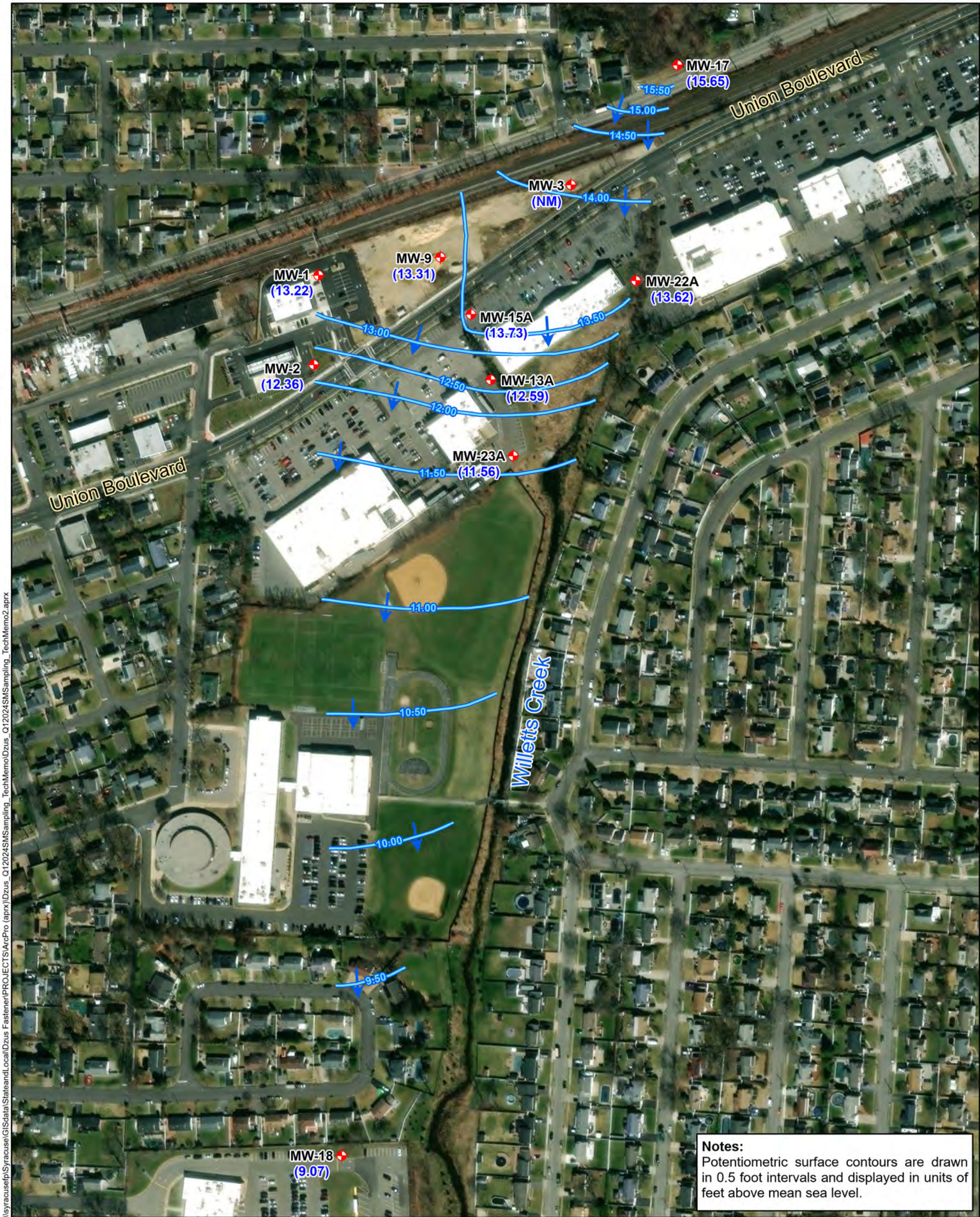
- OU1
- OU3
- OU6

Co-Located Surface Water/Sediment Samples

- Monitoring Well
- Sample for Sediment Only
- Sample for Surface Water and Sediment

Figure 1
Monitoring Locations
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 4/23/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

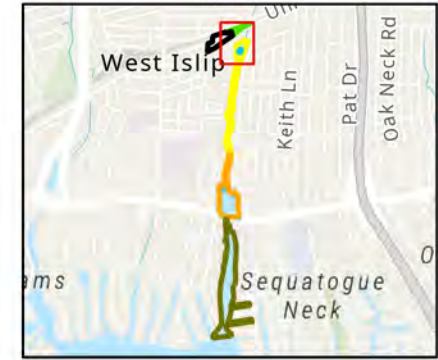


- Legend**
- Shallow Potentiometric Surface Contour
 - Groundwater Flow Direction
 - Monitoring Well

Figure 2
Shallow Potentiometric Surface Contours
April 2024
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 4/23/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri





- Legend**
- Groundwater Potinometric Contours
 - Groundwater Flow Direction
 - Monitoring Well

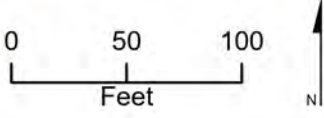


Figure 3
Deep Potentiometric Surface Contours
April 2024
 Dzus Fastener Company, Inc.
 West Islip, New York

Map Date: 4/17/2024
 Projection: NAD 83 State Plane
 New York Long Island 3104 (US Feet)
 Source: Esri



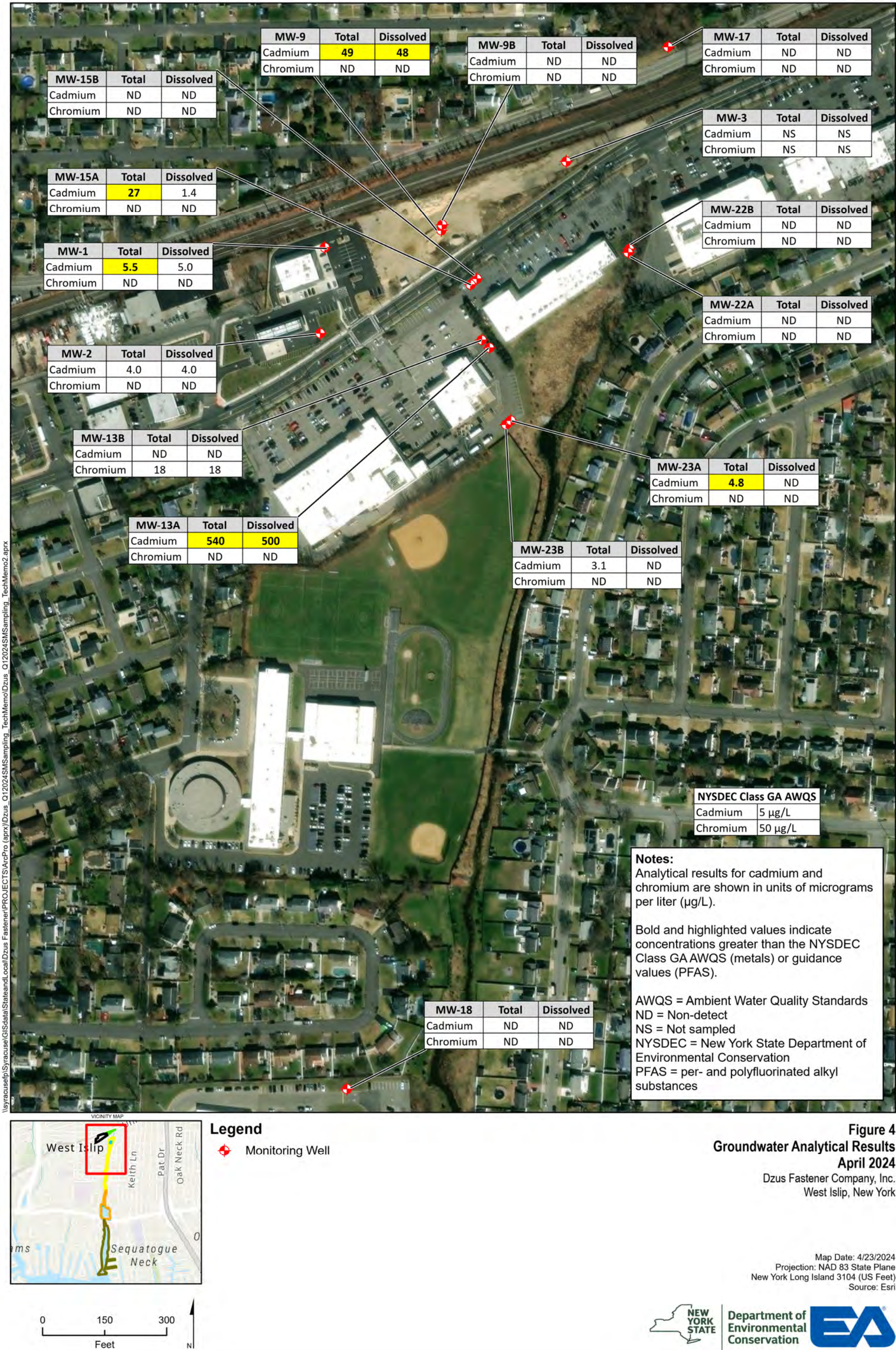
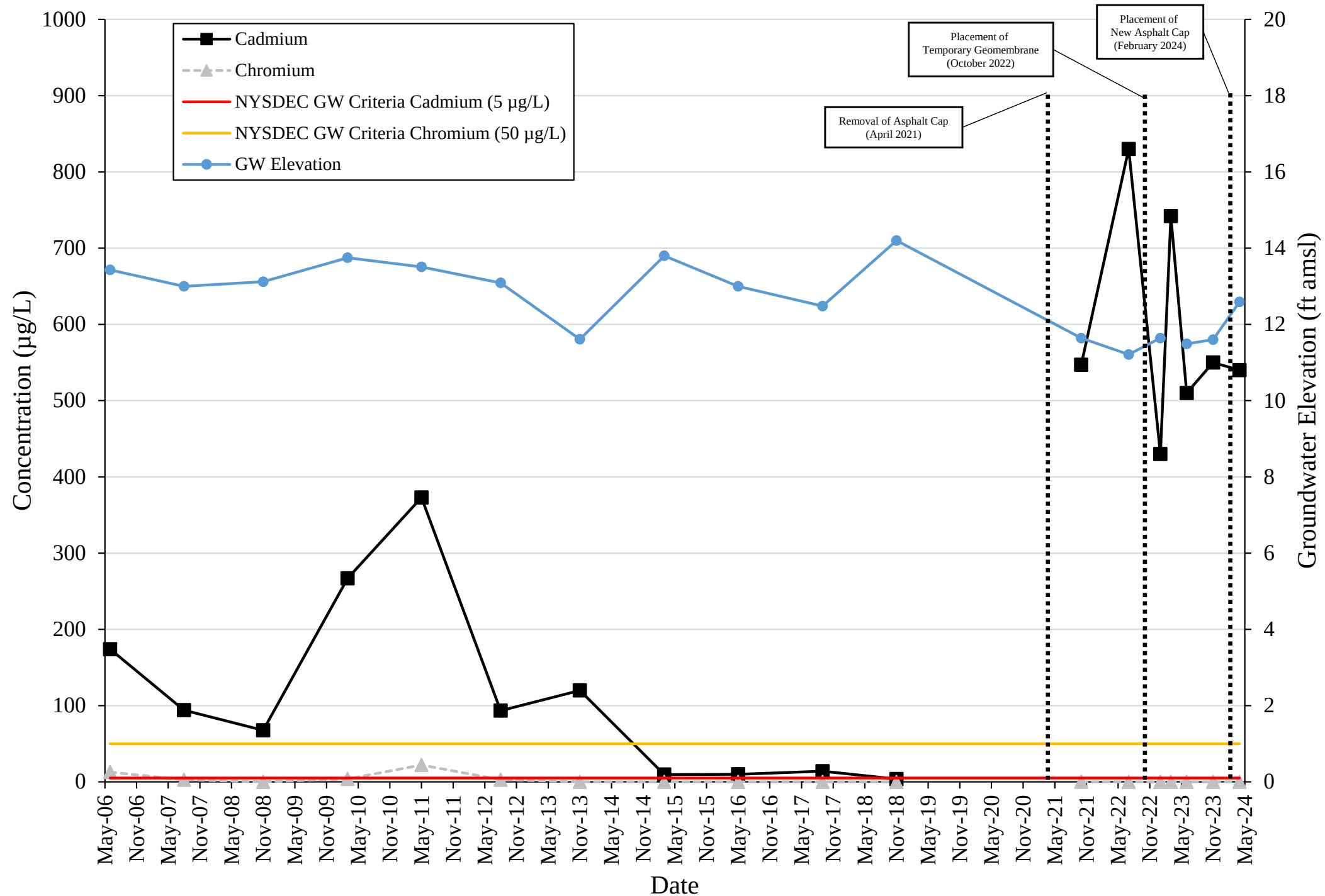
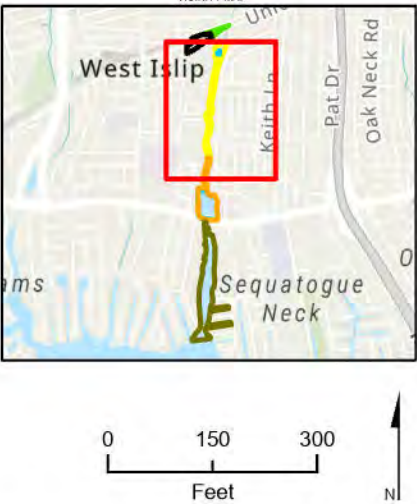
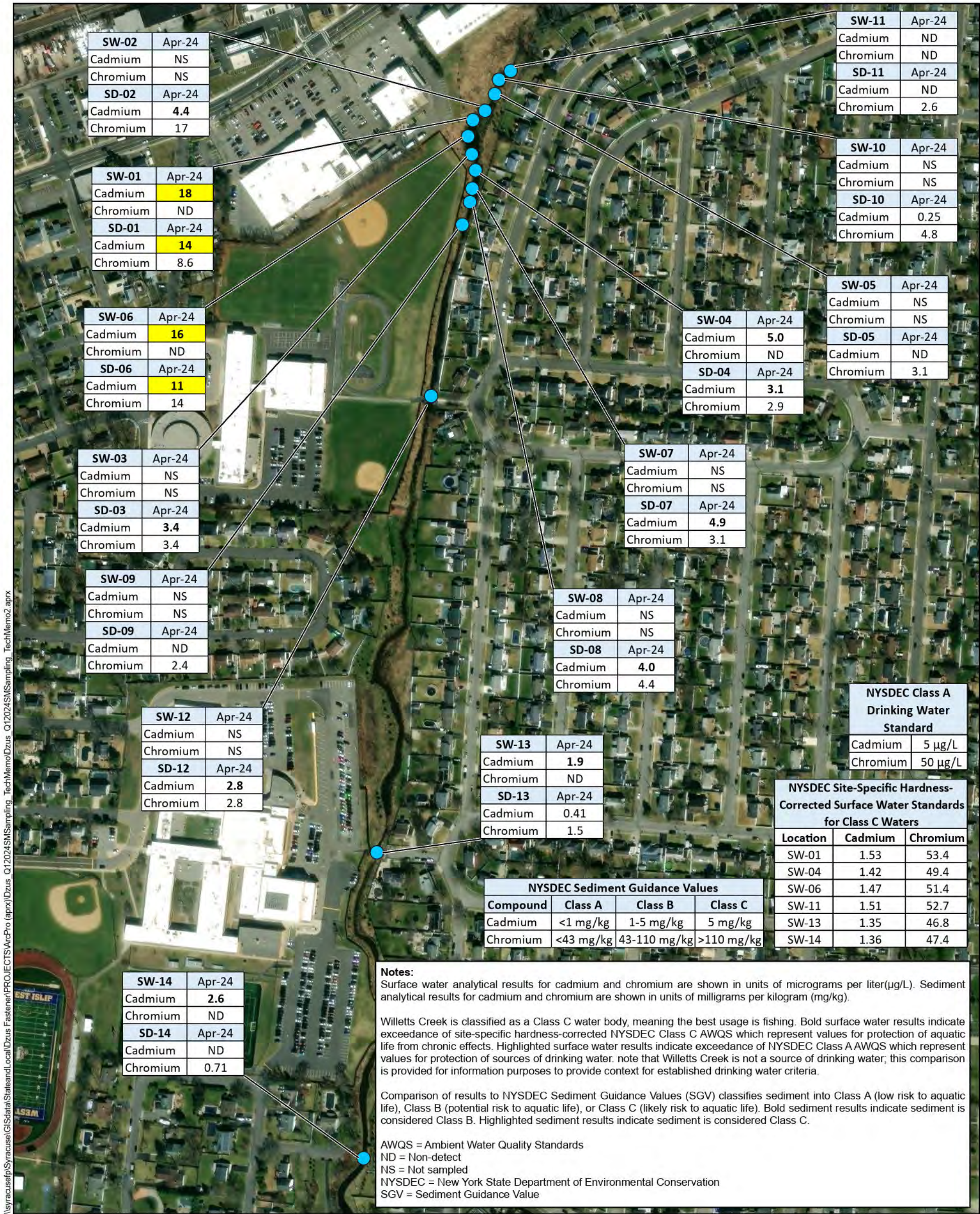


Figure 5
MW-13A: Metal Concentrations Over Time (June 2006 - April 2024)



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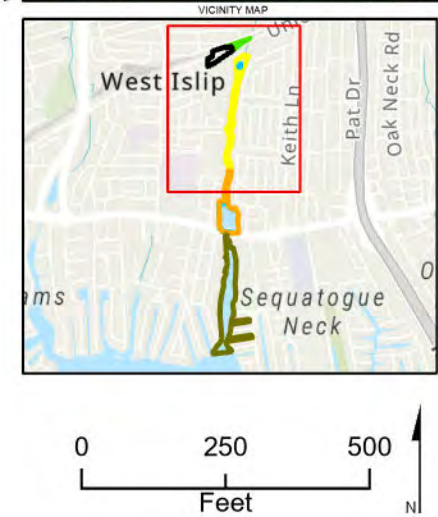
Legend

● Surface Water/Sediment Sample Location

Figure 6
Surface Water and Sediment Analytical Results
April 2024
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 6/12/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri





- Legend**
- Operable Units
- OU1
 - OU3
 - OU6
- Co-Located Surface Water/Sediment Samples
- Monitoring Well
 - Sample for Sediment Only
 - Sample for Surface Water and Sediment

Figure 7
Proposed June 2024
Monitoring Locations
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 6/12/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri



Attachment A

Field Book Log

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Dzus Fastener (152033)

Weather (PM): 45°F, Cloudy

Personnel: L. Backman-Lowe, M. Boyle

4/1/24

Objective: SM sampling

13:00 - EA onsite, purchase ice for sample preservative coolers

13:10 - mob to 4 Ivy Ct

13:15 - calibrate Horiba U-52

13:20 - tailgate H+S meeting

13:30 - mob to SW/SD-14 location to collect samples from Willetts Creek

13:35 - spoke w/ homeowner @ 3 Ivy Ct. to grant access to creek for sampling

14:00 - collect SW sample @ SW-14 for Dis. Metals + Tot. Hardness

14:05 - collect SD sample @ SD-14 for total metals (split w/ ms/msd)

14:35 - Mob to SW/SD-13 @ high school footbridge

14:50 - collect SW sample @ SW-13

14:55 - collect SD sample @ SD-13

15:00 - mob to captree plaza

15:15 - mob to middle school footbridge to collect SW/SD samples

15:50 - collect ~~SD-12~~ sample @ SD-12

16:10 - Collect ~~SD-09~~ ^{SD-09} sample @ SD-09 4/1/24

16:15 - Collect ~~SD-08~~ ^{SD-08} sample @ SD-08

16:20 - Collect ~~SD-07~~ ^{SD-07} sample @ SD-07

16:30 - Collect ~~SW-04~~ ^{SW-04} sample @ SW-04

16:35 - Collect ~~SD-04~~ ^{SD-04} sample @ SD-04

16:40 - Collect ~~SD-03~~ ^{SD-03} sample @ SD-03

17:00 - Collect ~~SW-06~~ ^{SW-06} sample @ SW-06

17:05 - Collect ~~SD-06~~ ^{SD-06} sample @ SD-06

17:15 - Collect Sample @ SW-01

Split with FD-1

17:25 - Collect Sample @ SD-01

Split with FD-1

17:30 - Collect Sample @ SD-02

17:40 - collect SD sample @ SD-05

17:45 - collect SD sample @ SD-10

17:50 - collect SW sample @ SW-11

17:55 - collect SD sample @ SD-11

18:10 - Sample Processing, Labeling, cooler packing, Chain of Custody

19:15 - EA Offsite

MPR

- 44 DZUS Fastener (152033) 4/2/2024
 Weather (AM): 46°F, drizzle
 Personnel: L. Bachman - Lowe, M. Boyle
 Objective: GW Sampling
 Weather (PM): 46°F, Heavy Rain
- 0735 - EA (M. Boyle, L. Bachman - Lowe) onsite,
 Purchase ice for sample preservation
 0745 - Mob to MW-22 & MW-22B
 0750 - Calibrate Horiba U-52's.
 0820 - Start Purge @ MW-22A
 0825 - Start Purge @ MW-22B
 0910 - Sample @ MW-22B for total and
 dissolved metals
 0924 - Collect Sample @ MW-22A for total &
 dissolved metals (split w/ MS/MSD)
 0940 - Mob to MW-13A & MW-13B
 0945 - Remove standing water on top of
 MW 13A & MW 13B
 1010 - M. Boyle mob to Ace Hardware to
 purchase more rags
 1028 - Start Purge @ MW-13B
 1038 - Start Purge @ MW-13A
 1146 - Collect Sample @ MW-13B
 1238 - Collect Sample @ MW-13A
 split w/ FD-1
 1255 - Break for lunch then Mob to OU-1
 1325 - Chizzle concrete surrounding well covers

- 1335 - Remove sediment in MW-9A 4/2/2024
 1350 - Start Purge @ MW-9A & MW-9B
 1425 - collect sample @ MW-9B
 1442 - collect sample @ MW-9
 1500 - start purge @ MW-23B
 1504 - start purge @ MW-23A
 1547 - collect sample @ MW-23A
 1630 - collect sample @ MW-23B
 1640 - pack equipment, EA offsite
- MRD
- Rite in the Rain

- 0700- Weather (AM): 42°F, Heavy Rain
Personnel: M. Boyle, Lincoln Bachman-Lowe
Objective: GW Sampling
Weather (PM):
- 0700- EA (M. Boyle, Lincoln Bachman-Lowe)
Onsite, Purchase Ice for Sample
Preservative Coolers
- 0710- Mob to MW-17
- 0714- Start Purge @ MW-17
- 0819- Collect Sample @ MW-17 For
Total and dissolved Metals
- 0830- Mob to MW-15A and 15B
- 0848- Start Purge @ MW-15B
- 0850- Start Purge @ MW-15A
- 0936- Collect Sample @ MW-15B
- 0940- Collect Sample @ MW-15A
- 0950- Mob to West Isip High School
- ~~1034~~ 1001- Start Purge @ MW-18
- 1034- Collect Sample @ MW-18
- 1045- Mob to 7-11 Parking lot
- 1055- Start Purge @ MW-2
- 1135- Collect Sample @ MW-2
- 1158- Start Purge @ MW-1
- 1245- Sample @ MW-1 ~~For~~^{For} Collected
- 1255- Pack equipment and coolers
- 1345- EA Offsite

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Attachment B

Chain-of-Custody

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CHAIN-OF-CUSTODY Analytical Request Document										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here																																																																																																																
Pace Analytical Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields					ALL SHADED AREAS are for LAB USE ONLY																																																																																																																					
Company: <u>FIA Engineering</u> Address: <u>333 W. Washington St Ste 200 Syracuse, NY 13242</u> Report To: <u>williams@pacest.com</u> Copy To: <u>backmanlowe@pacest.com</u> Customer Project Name/Number: <u>Dzus Fastener / 15025-15-00-CP</u> Phone: (716) 364-7282 Email: <u>Dzus Fastener (152033)</u> Collected By (print): Collected By (signature): <u>X L B L X</u> Sample Disposal: ☒ Dispose as appropriate ☐ Return ☐ Archive ☐ Hold * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)					Billing Information: <u>Melanie Dina</u> <u>PO Box 144</u> <u>25 Western Ave, Marlboro, NY 12542</u> Email To: <u>NEAccountsPayable@pacest.com</u> Site Collection Info/Address: <u>Dzus Fastener / 425 Union Blvd</u> State: <u>NY</u> County/City: <u>West Islip</u> Time Zone Collected: <u>[] PT [] MT [] CT [] ET</u> Compliance Monitoring? ☒ Yes ☐ No DW PWS ID #: <u>152033</u> DW Location Code: Immediately Packed on Ice: ☐ Yes ☐ No Field Filtered (if applicable): ☐ Yes ☐ No Analysis: <u>Diss. Metals (6010)</u>					Container Preservative Type ** Lab Project Manager: ** Preservative Types (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other Analyses Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact ☐ Y ☐ N ☐ NA Custody Signatures Present ☐ Y ☐ N ☐ NA Collector Signature Present ☐ Y ☐ N ☐ NA Bottles Intact ☐ Y ☐ N ☐ NA Correct Bottles ☐ Y ☐ N ☐ NA Sufficient Volume ☐ Y ☐ N ☐ NA Samples Received on Ice ☐ Y ☐ N ☐ NA VOA - Headspace Acceptable ☐ Y ☐ N ☐ NA USDA Regulated Soils ☐ Y ☐ N ☐ NA Samples in Holding Time ☐ Y ☐ N ☐ NA Residual Chlorine Present ☐ Y ☐ N ☐ NA Cl Strips: Sample pH Acceptable ☐ Y ☐ N ☐ NA pH Strips: Sulfide Present ☐ Y ☐ N ☐ NA Lead Acetate Strips: LAB USE ONLY: Lab Sample # / Comments:																																																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Customer Sample ID</th> <th rowspan="2">Matrix *</th> <th rowspan="2">Comp / Grab</th> <th colspan="2">Collected (or Composite Start)</th> <th colspan="2">Composite End</th> <th rowspan="2">Res CI</th> <th rowspan="2"># of Ctns</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>152033-SM-SW-14-04012024</td> <td>OT</td> <td>G</td> <td>4/1/24</td> <td>14:00</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>152033-SM-SW-13-04012024</td> <td>OT</td> <td>G</td> <td></td> <td>14:50</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>152033-SM-SW-04-04012024</td> <td>OT</td> <td>G</td> <td></td> <td>16:30</td> <td></td> <td></td> <td>6*</td> <td></td> </tr> <tr> <td>152033-SM-SW-06-04012024</td> <td>OT</td> <td>G</td> <td></td> <td>17:00</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>152033-SM-SW-01-04012024</td> <td>OT</td> <td>G</td> <td></td> <td>17:15</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>152033-SM-SW-01-04012024</td> <td>OT</td> <td>G</td> <td></td> <td>17:50</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>152033-SM-SW-07-04012024</td> <td>OT</td> <td>G</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>152033-SM-SW-14-04012024</td> <td>SL</td> <td>C</td> <td></td> <td>14:05</td> <td></td> <td></td> <td>2*</td> <td></td> </tr> <tr> <td>152033-SM-SW-13-04012024</td> <td>SL</td> <td>C</td> <td></td> <td>14:55</td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>152033-SM-SW-12-04012024</td> <td>SL</td> <td>C</td> <td></td> <td>15:50</td> <td></td> <td></td> <td>1</td> <td></td> </tr> </tbody> </table>										Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns	Date	Time	Date	Time	152033-SM-SW-14-04012024	OT	G	4/1/24	14:00			2		152033-SM-SW-13-04012024	OT	G		14:50			2		152033-SM-SW-04-04012024	OT	G		16:30			6*		152033-SM-SW-06-04012024	OT	G		17:00			2		152033-SM-SW-01-04012024	OT	G		17:15			2		152033-SM-SW-01-04012024	OT	G		17:50			2		152033-SM-SW-07-04012024	OT	G					2		152033-SM-SW-14-04012024	SL	C		14:05			2*		152033-SM-SW-13-04012024	SL	C		14:55			1		152033-SM-SW-12-04012024	SL	C		15:50			1		Type of Ice Used: Wet Blue Dry None Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N NA SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: 2661965 Samples received via: FEDEX UPS Client Courier Pace Courier MTJL LAB USE ONLY Table #: Acctnum: Template: Prelogin: PM: PB:					Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt: °C Cooler 1 Therm Corr. Factor: °C Cooler 1 Corrected Temp: °C Comments: Trip Blank Received: Y N NA HCL MeOH TSP Other Non Conformance(s): YES / NO Page: <u>1</u> of: <u>4</u>				
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns																																																																																																																		
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Customer Remarks / Special Conditions / Possible Hazards: * Additional volume included w/ samples SW-04 and SD-14 for ms/msd OT = surface water										Relinquished by/Company: (Signature) <u>John Bil / EA</u> Date/Time: <u>4/4/24 12:00</u> Relinquished by/Company: (Signature) Date/Time: Relinquished by/Company: (Signature) Date/Time:																																																																																																																

N NA
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 N NA
 Other
 Page: 2
 of: 4

CHAIN-OF-CUSTODY Analytical Request Document										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here														
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields										ALL SHADED AREAS are for LAB USE ONLY														
Company: _____					Billing Information: _____															Container Preservative Type ** _____				
Address: _____					Report To: SEE PAGE 1					Lab Project Manager: _____														
Copy To: _____					Email To: _____					** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other														
Customer Project Name/Number: _____					State: _____ County/City: _____ Time Zone Collected: [] PT [] MT [] CT [] ET					Analyses: _____														
Phone: _____ Email: _____		Site/Facility ID #: _____			Compliance Monitoring? [] Yes [] No			Lab Profile/Line: _____																
Collected By (print): _____		Purchase Order #: _____ Quote #: _____			DW PWS ID #: _____ DW Location Code: _____			Lab Sample Receipt Checklist:																
Collected By (signature): _____		Turnaround Date Required: Standard 10-Day TAT			Immediately Packed on Ice: [X] Yes [] No			Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____																
Sample Disposal: ☐ Dispose as appropriate ☐ Return ☐ Archive: _____ ☐ Hold: _____		Rush: ☐ Same Day ☐ Next Day ☐ 2 Day ☐ 3 Day ☐ 4 Day ☐ 5 Day (Expedite Charges Apply)			Field Filtered (if applicable): ☒ Yes ☐ No Analysis: _____			LAB USE ONLY: Lab Sample # / Comments: _____																
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)																								
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns																
Date	Time	Date	Time																					
152033-SM-MW-17-04032024	GW	G	4/3/24	08:19				2	X	X														
152033-SM-MW-15B-04032024	GW	G		09:36				2	X	X														
152033-SM-MW-15A-04032024	GW	G		09:40				2	X	X														
152033-SM-MW-18-04032024	GW	G		10:34				2	X	X														
152033-SM-MW-2-04032024	GW	G		11:35				2	X	X														
152033-SM-MW-404032024	GW	G		12:45				2	X	X														
152033-SM-MW-FD-04022024	GW	G	4/2/24	—				2	X	X														
Customer Remarks / Special Conditions / Possible Hazards: _____										Type of Ice Used: Wet Blue Dry None					SHORT HOLDS PRESENT (<72 hours): Y N N/A									
Packing Material Used: _____										Lab Tracking #: 2805680					Lab Sample Temperature Info:									
Radchem sample(s) screened (<500 cpm): Y N NA										Samples received via: FEDEX UPS Client Courier Pace Courier					Temp Blank Received: Y N NA Therm ID#: _____ Cooler 1 Temp Upon Receipt: _____ °C Cooler 1 Therm Corr. Factor: _____ °C Cooler 1 Corrected Temp: _____ °C Comments: _____									
Relinquished by/Company: (Signature) Bill B. - EA										Date/Time: 4/4/24 12:00					Received by/Company: (Signature) _____					Date/Time: _____				
Relinquished by/Company: (Signature) _____										Date/Time: _____					Received by/Company: (Signature) _____					Date/Time: _____				
Relinquished by/Company: (Signature) _____										Date/Time: _____					Received by/Company: (Signature) _____					Date/Time: _____				
															Table #: _____ Acctnum: _____ Template: _____ Prelogin: _____ PM: _____ PB: _____									
															Trip Blank Received: Y N NA HCL MeOH TSP Other									
															Non Conformance(s): _____ YES / NO									
															Page: 4 of: 4									

Attachment C

Laboratory Report

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Data Package



ANALYTICAL. LIFE. SERVICE.

April 19, 2024

Hilary Williams
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: 425 Union Blvd, West Islip, NY
Client Job Number:
Project Number: 16025-15-00-CP
Laboratory Work Order Number: 24D0729

Enclosed are results of analyses for samples as received by the laboratory on April 5, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
24D0729-01	6
24D0729-02	8
24D0729-03	10
24D0729-04	12
24D0729-05	14
24D0729-06	16
24D0729-07	18
24D0729-08	20
24D0729-09	22
24D0729-10	24
24D0729-11	26
24D0729-12	28
24D0729-13	30
24D0729-14	32
24D0729-15	34
24D0729-16	36
24D0729-17	38
24D0729-18	40
24D0729-19	42
24D0729-20	44
Sample Preparation Information	46
QC Data	47

Table of Contents (continued)

Metals Analyses (Total)	47
B370650	47
B370708	47
Metals Analyses (Dissolved)	48
B370708	48
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	49
B370800	49
Flag/Qualifier Summary	50
Certifications	51
Chain of Custody/Sample Receipt	52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 4/19/2024

PURCHASE ORDER NUMBER: 3124

PROJECT NUMBER: 16025-15-00-CP

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24D0729

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 425 Union Blvd, West Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-SM-SW-14-04012024	24D0729-01	Surface Water		SW-846 6010D	
152033-SM-SW-13-04012024	24D0729-02	Surface Water		SW-846 6010D	
152033-SM-SW-04-04012024	24D0729-03	Surface Water		SW-846 6010D	
152033-SM-SW-06-04012024	24D0729-04	Surface Water		SW-846 6010D	
152033-SM-SW-01-04012024	24D0729-05	Surface Water		SW-846 6010D	
152033-SM-SW-11-04012024	24D0729-06	Surface Water		SW-846 6010D	
152033-SM-SW-FD-04012024	24D0729-07	Surface Water		SW-846 6010D	
152033-SM-SD-14-04012024	24D0729-08	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-13-04012024	24D0729-09	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-12-04012024	24D0729-10	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-09-04012024	24D0729-11	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-08-04012024	24D0729-12	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-07-04012024	24D0729-13	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-04-04012024	24D0729-14	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-03-04012024	24D0729-15	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-06-04012024	24D0729-16	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-01-04012024	24D0729-17	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-02-04012024	24D0729-18	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-05-04012024	24D0729-19	Soil		SM 2540G	
				SW-846 6010D	
152033-SM-SD-10-04012024	24D0729-20	Soil		SM 2540G	
				SW-846 6010D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010D**Qualifications:**

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Chromium**B370650-BS1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Chromium**

24D0729-08[152033-SM-SD-14-04012024], B370650-MS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington

Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-14-04012024

Sampled: 4/1/2024 14:00

Sample ID: 24D0729-01

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	58	1.4		mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:40	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-14-04012024

Sampled: 4/1/2024 14:00

Sample ID: 24D0729-01

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0026	0.0040	0.0015	mg/L	1	J	SW-846 6010D	4/5/24	4/18/24 12:40	MJH
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:40	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-13-04012024

Sampled: 4/1/2024 14:50

Sample ID: 24D0729-02

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	57	1.4		mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:46	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-13-04012024

Sampled: 4/1/2024 14:50

Sample ID: 24D0729-02

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0019	0.0040	0.0015	mg/L	1	J	SW-846 6010D	4/5/24	4/18/24 12:46	MJH
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:46	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-04-04012024

Sampled: 4/1/2024 16:30

Sample ID: 24D0729-03

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	61	1.4		mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:34	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-04-04012024

Sampled: 4/1/2024 16:30

Sample ID: 24D0729-03

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0050	0.0040	0.0015	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:34	MJH
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:34	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-06-04012024

Sampled: 4/1/2024 17:00

Sample ID: 24D0729-04

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	64	1.4		mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:52	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-06-04012024

Sampled: 4/1/2024 17:00

Sample ID: 24D0729-04

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.016	0.0040	0.0015	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:52	ICP
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:52	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-01-04012024

Sampled: 4/1/2024 17:15

Sample ID: 24D0729-05

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	67	1.4		mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:58	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-01-04012024

Sampled: 4/1/2024 17:15

Sample ID: 24D0729-05

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.018	0.0040	0.0015	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:58	ICP
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	4/5/24	4/18/24 12:58	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-11-04012024

Sampled: 4/1/2024 17:50

Sample ID: 24D0729-06

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	66	1.4		mg/L	1		SW-846 6010D	4/5/24	4/18/24 13:04	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-11-04012024

Sampled: 4/1/2024 17:50

Sample ID: 24D0729-06

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	4/5/24	4/18/24 13:04	ICP
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	4/5/24	4/18/24 13:04	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-FD-04012024

Sampled: 4/1/2024 00:00

Sample ID: 24D0729-07

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hardness	66	1.4		mg/L	1		SW-846 6010D	4/5/24	4/18/24 13:10	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SW-FD-04012024

Sampled: 4/1/2024 00:00

Sample ID: 24D0729-07

Sample Matrix: Surface Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.018	0.0040	0.0015	mg/L	1		SW-846 6010D	4/5/24	4/18/24 13:10	ICP
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	4/5/24	4/18/24 13:10	ICP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-14-04012024

Sampled: 4/1/2024 14:05

Sample ID: 24D0729-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.41	0.19	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 13:54	NC
Chromium	0.71	0.82	0.52	mg/Kg dry	1	MS-22, J	SW-846 6010D	4/5/24	4/11/24 13:54	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-14-04012024

Sampled: 4/1/2024 14:05

Sample ID: 24D0729-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-13-04012024

Sampled: 4/1/2024 14:55

Sample ID: 24D0729-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.41	0.38	0.18	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:04	NC
Chromium	1.5	0.76	0.48	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:04	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-13-04012024

Sampled: 4/1/2024 14:55

Sample ID: 24D0729-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-12-04012024

Sampled: 4/1/2024 15:50

Sample ID: 24D0729-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	2.8	0.41	0.19	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:14	NC
Chromium	2.8	0.81	0.51	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:14	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-12-04012024

Sampled: 4/1/2024 15:50

Sample ID: 24D0729-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-09-04012024

Sampled: 4/1/2024 16:10

Sample ID: 24D0729-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.40	0.19	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:39	NC
Chromium	2.4	0.81	0.51	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:39	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-09-04012024

Sampled: 4/1/2024 16:10

Sample ID: 24D0729-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.7		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-08-04012024

Sampled: 4/1/2024 16:15

Sample ID: 24D0729-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	4.0	0.45	0.21	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:48	NC
Chromium	4.4	0.90	0.57	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:48	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-08-04012024

Sampled: 4/1/2024 16:15

Sample ID: 24D0729-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.1		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-07-04012024

Sampled: 4/1/2024 16:20

Sample ID: 24D0729-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	4.9	0.44	0.21	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:58	NC
Chromium	3.1	0.88	0.56	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 14:58	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-07-04012024

Sampled: 4/1/2024 16:20

Sample ID: 24D0729-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.2		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-04-04012024

Sampled: 4/1/2024 16:35

Sample ID: 24D0729-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	3.1	0.40	0.19	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:08	NC
Chromium	2.9	0.80	0.51	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:08	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-04-04012024

Sampled: 4/1/2024 16:35

Sample ID: 24D0729-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.4		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-03-04012024

Sampled: 4/1/2024 16:40

Sample ID: 24D0729-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	3.4	0.44	0.21	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:18	NC
Chromium	3.4	0.89	0.56	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:18	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-03-04012024

Sampled: 4/1/2024 16:40

Sample ID: 24D0729-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.0		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-06-04012024

Sampled: 4/1/2024 17:05

Sample ID: 24D0729-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	11	0.42	0.20	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:27	NC
Chromium	14	0.83	0.53	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:27	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-06-04012024

Sampled: 4/1/2024 17:05

Sample ID: 24D0729-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-01-04012024

Sampled: 4/1/2024 17:25

Sample ID: 24D0729-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	14	0.46	0.22	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:36	NC
Chromium	8.6	0.93	0.59	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:36	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-01-04012024

Sampled: 4/1/2024 17:25

Sample ID: 24D0729-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.1		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-02-04012024

Sampled: 4/1/2024 17:30

Sample ID: 24D0729-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	4.4	0.41	0.19	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:46	NC
Chromium	17	0.82	0.52	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:46	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-02-04012024

Sampled: 4/1/2024 17:30

Sample ID: 24D0729-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.6		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-05-04012024

Sampled: 4/1/2024 17:40

Sample ID: 24D0729-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.42	0.20	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:55	NC
Chromium	3.1	0.84	0.53	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 15:55	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-05-04012024

Sampled: 4/1/2024 17:40

Sample ID: 24D0729-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.3		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-10-04012024

Sampled: 4/1/2024 17:45

Sample ID: 24D0729-20

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.25	0.43	0.20	mg/Kg dry	1	J	SW-846 6010D	4/5/24	4/11/24 16:05	NC
Chromium	4.8	0.86	0.54	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 16:05	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0729

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-10-04012024

Sampled: 4/1/2024 17:45

Sample ID: 24D0729-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.6		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method:**% Solids **Analytical Method:**SM 2540G

Lab Number [Field ID]	Batch	Date
24D0729-08 [152033-SM-SD-14-04012024]	B370800	04/08/24
24D0729-09 [152033-SM-SD-13-04012024]	B370800	04/08/24
24D0729-10 [152033-SM-SD-12-04012024]	B370800	04/08/24
24D0729-11 [152033-SM-SD-09-04012024]	B370800	04/08/24
24D0729-12 [152033-SM-SD-08-04012024]	B370800	04/08/24
24D0729-13 [152033-SM-SD-07-04012024]	B370800	04/08/24
24D0729-14 [152033-SM-SD-04-04012024]	B370800	04/08/24
24D0729-15 [152033-SM-SD-03-04012024]	B370800	04/08/24
24D0729-16 [152033-SM-SD-06-04012024]	B370800	04/08/24
24D0729-17 [152033-SM-SD-01-04012024]	B370800	04/08/24
24D0729-18 [152033-SM-SD-02-04012024]	B370800	04/08/24
24D0729-19 [152033-SM-SD-05-04012024]	B370800	04/08/24
24D0729-20 [152033-SM-SD-10-04012024]	B370800	04/08/24

Prep Method:SW-846 3050B **Analytical Method:**SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24D0729-08 [152033-SM-SD-14-04012024]	B370650	1.52	50.0	04/05/24
24D0729-09 [152033-SM-SD-13-04012024]	B370650	1.56	50.0	04/05/24
24D0729-10 [152033-SM-SD-12-04012024]	B370650	1.51	50.0	04/05/24
24D0729-11 [152033-SM-SD-09-04012024]	B370650	1.55	50.0	04/05/24
24D0729-12 [152033-SM-SD-08-04012024]	B370650	1.56	50.0	04/05/24
24D0729-13 [152033-SM-SD-07-04012024]	B370650	1.58	50.0	04/05/24
24D0729-14 [152033-SM-SD-04-04012024]	B370650	1.59	50.0	04/05/24
24D0729-15 [152033-SM-SD-03-04012024]	B370650	1.50	50.0	04/05/24
24D0729-16 [152033-SM-SD-06-04012024]	B370650	1.59	50.0	04/05/24
24D0729-17 [152033-SM-SD-01-04012024]	B370650	1.54	50.0	04/05/24
24D0729-18 [152033-SM-SD-02-04012024]	B370650	1.53	50.0	04/05/24
24D0729-19 [152033-SM-SD-05-04012024]	B370650	1.57	50.0	04/05/24
24D0729-20 [152033-SM-SD-10-04012024]	B370650	1.54	50.0	04/05/24

Prep Method:SW-846 3005A Dissolved **Analytical Method:**SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24D0729-01 [152033-SM-SW-14-04012024]	B370708	5.00	5.00	04/05/24
24D0729-01 [152033-SM-SW-14-04012024]	B370708	5.00		04/05/24
24D0729-02 [152033-SM-SW-13-04012024]	B370708	5.00	5.00	04/05/24
24D0729-02 [152033-SM-SW-13-04012024]	B370708	5.00		04/05/24
24D0729-03 [152033-SM-SW-04-04012024]	B370708	5.00	5.00	04/05/24
24D0729-03 [152033-SM-SW-04-04012024]	B370708	5.00		04/05/24
24D0729-04 [152033-SM-SW-06-04012024]	B370708	5.00	5.00	04/05/24
24D0729-04 [152033-SM-SW-06-04012024]	B370708	5.00		04/05/24
24D0729-05 [152033-SM-SW-01-04012024]	B370708	5.00	5.00	04/05/24
24D0729-05 [152033-SM-SW-01-04012024]	B370708	5.00		04/05/24
24D0729-06 [152033-SM-SW-11-04012024]	B370708	5.00	5.00	04/05/24
24D0729-06 [152033-SM-SW-11-04012024]	B370708	5.00		04/05/24
24D0729-07 [152033-SM-SW-FD-04012024]	B370708	5.00	5.00	04/05/24
24D0729-07 [152033-SM-SW-FD-04012024]	B370708	5.00		04/05/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B370650 - SW-846 3050B										
Blank (B370650-BLK1)				Prepared: 04/05/24 Analyzed: 04/11/24						
Cadmium	ND	0.33	mg/Kg wet							
Chromium	ND	0.66	mg/Kg wet							
LCS (B370650-BS1)				Prepared: 04/05/24 Analyzed: 04/11/24						
Cadmium	242	0.99	mg/Kg wet	212		114	82.5-117.9			
Chromium	220	2.0	mg/Kg wet	180		122	* 81.1-118.3			L-07
LCS Dup (B370650-BSD1)				Prepared: 04/05/24 Analyzed: 04/11/24						
Cadmium	212	0.99	mg/Kg wet	212		100	82.5-117.9	13.1	20	
Chromium	184	2.0	mg/Kg wet	180		102	81.1-118.3	17.8	30	
Matrix Spike (B370650-MS1)				Source: 24D0729-08		Prepared: 04/05/24 Analyzed: 04/11/24				
Cadmium	20.0	0.41	mg/Kg dry	20.3	ND	98.5	75-125			
Chromium	26.8	0.81	mg/Kg dry	20.3	0.715	128	* 75-125			MS-22
Matrix Spike Dup (B370650-MSD1)				Source: 24D0729-08		Prepared: 04/05/24 Analyzed: 04/11/24				
Cadmium	19.6	0.41	mg/Kg dry	20.5	ND	95.8	75-125	1.86	35	
Chromium	23.2	0.82	mg/Kg dry	20.5	0.715	109	75-125	14.7	35	
Post Spike (B370650-PS1)				Source: 24D0729-08		Prepared: 04/05/24 Analyzed: 04/11/24				
Cadmium	1.99		mg/L	2.00	0.00130	99.6	75-125			
Chromium	2.14		mg/L	2.00	0.0174	106	75-125			
Dilution Check (B370650-SRL1)				Source: 24D0729-08		Prepared: 04/05/24 Analyzed: 04/11/24				
Cadmium	ND	2.1	mg/Kg dry		ND				20	
Chromium	ND	4.1	mg/Kg dry		ND				20	
Batch B370708 - SW-846 3005A Dissolved										
Blank (B370708-BLK1)				Prepared: 04/05/24 Analyzed: 04/18/24						
Hardness	0.0063	1.4	mg/L							J
LCS (B370708-BS1)				Prepared: 04/05/24 Analyzed: 04/18/24						
Hardness	14	1.4	mg/L	13.2		106	80-120			
Matrix Spike (B370708-MS1)				Source: 24D0729-03		Prepared: 04/05/24 Analyzed: 04/18/24				
Hardness	170	1.4	mg/L	108	61	101	75-125			
Matrix Spike Dup (B370708-MSD1)				Source: 24D0729-03		Prepared: 04/05/24 Analyzed: 04/18/24				
Hardness	160	1.4	mg/L	108	61	96.4	75-125	3.24	20	
Dilution Check (B370708-SRL1)				Source: 24D0729-03		Prepared: 04/05/24 Analyzed: 04/18/24				
Hardness	59.3	7.2	mg/L		60.6			2.10	20	

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QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B370708 - SW-846 3005A Dissolved										
Blank (B370708-BLK1)				Prepared: 04/05/24 Analyzed: 04/18/24						
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
LCS (B370708-BS1)				Prepared: 04/05/24 Analyzed: 04/18/24						
Cadmium	1.99	0.0040	mg/L	2.00		99.6	80-120			
Chromium	2.03	0.010	mg/L	2.00		102	80-120			
Matrix Spike (B370708-MS1)				Source: 24D0729-03		Prepared: 04/05/24 Analyzed: 04/18/24				
Cadmium	2.11	0.0041	mg/L	2.04	0.00497	103	75-125			
Chromium	2.07	0.010	mg/L	2.04	ND	101	75-125			
Matrix Spike Dup (B370708-MSD1)				Source: 24D0729-03		Prepared: 04/05/24 Analyzed: 04/18/24				
Cadmium	2.08	0.0041	mg/L	2.04	0.00497	102	75-125	1.24	20	
Chromium	2.04	0.010	mg/L	2.04	ND	100	75-125	1.24	20	
Dilution Check (B370708-SRL1)				Source: 24D0729-03		Prepared: 04/05/24 Analyzed: 04/18/24				
Cadmium	ND	0.020	mg/L		ND				20	
Chromium	ND	0.050	mg/L		ND				20	

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B370800 - % Solids

Duplicate (B370800-DUP1)		Source: 24D0729-08		Prepared & Analyzed: 04/08/24						
% Solids	83.2		% Wt		80.1			3.77	10	
Duplicate (B370800-DUP2)		Source: 24D0729-09		Prepared & Analyzed: 04/08/24						
% Solids	83.7		% Wt		84.6			1.02	10	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010D in Soil</i>	
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
<i>SW-846 6010D in Water</i>	
Cadmium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,NC,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024

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LAB USE ONLY- Affix Workorder/Login Label Here or List Page Workorder Number of 53

MTIL Log-In Number Here

2400729

45 ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager

* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VQA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

Client clarified that the SM 2340C Total Hardness analysis should actually be Hardness by Calculation 6010D.
KKS 4/5/24

Lab Sample Temperature Info:

Temp Blank Received	Y	N	NA

Therm ID#:

Cooler 1 Temp Upon Receipt _____ °C

Cooler 1 Therm Corr. Factor: _____ °C

Cooler 1 Corrected Temp: _____ °C

Comments:

Trin Blank Received:	Y	N	NA

HCL	MeOH	TSP	Other
100	100	100	100

Non Conformance(s):
YES / NO

Page: 4

Table of Contents

Page 53 of 55

	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client EA Engineering
 Project DZUS Fastener
 MCP/RCP Required MA
 Deliverable Package Requirement MA
 Location 425 Union Blvd, Forest 131P NY
 PWSID# (When Applicable) MA
 Arrival Method:
 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
 Received By / Date / Time CMU 4/12/4 955
 Back-Sheet By / Date / Time JA 4/12/4 1135
 Temperature Method Glm # 6
 Temp < 6° C Actual Temperature 2.9 / 11A
 Rush Samples: Yes / ☒ No Notify ☐
 Short Hold: Yes / ☒ No Notify ☐

Login Sample Receipt Checklist – (Rejection Criteria Listing
 – Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client – True or False

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☐	☒
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒
All Samples Proper pH: <u>N/A</u> ☐ ☐		

Notes regarding Samples/COC outside of SOP:

All Sample Etoh Filtered
and Reduced Pressure
with Nitric Acid.

Additional Container Notes

Note: West Virginia requires all samples to have their
 temperature taken. Note any outliers.



DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample		Soils Jars (Circle Amb/Clear)	Ambers				Plastics								VOA Vials					Other / Fill in	
			1 Liter	250mL	100mL	1 Liter	500mL	250mL				Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact				
1	16oz Amb/Clear																				
2	8oz Amb/Clear																				
3	4oz Amb/Clear																				
4	2oz Amb/Clear																				
5	Unpreserved																				
6	HCL																				
7	Sulfuric																				
8	Sulfuric																				
9	Phosphoric																				
10	HCl																				
11	Unpreserved																				
12	Unpreserved																				
13	Sulfuric																				
14	Unpreserved																				
15	Unpreserved																				
16	Sulfuric																				
17	Unpreserved																				
18	Unpreserved																				
19	Unpreserved																				
20	Unpreserved																				

ICP

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-14-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-08
Sampled:	04/01/24 14:05		
% Solids:	80.11		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.19	0.41	1		B370650	04/11/24 13:54	SW-846 6010E
7440-47-3	Chromium	0.71	0.52	0.82	1	MS-22, J	B370650	04/11/24 13:54	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-13-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-09
Sampled:	04/01/24 14:55		
% Solids:	84.56		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	0.41	0.18	0.38	1		B370650	04/11/24 14:04	SW-846 6010E
7440-47-3	Chromium	1.5	0.48	0.76	1		B370650	04/11/24 14:04	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-12-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-10
Sampled:	04/01/24 15:50		
% Solids:	81.58		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	2.8	0.19	0.41	1		B370650	04/11/24 14:14	SW-846 6010E
7440-47-3	Chromium	2.8	0.51	0.81	1		B370650	04/11/24 14:14	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-09-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-11
Sampled:	04/01/24 16:10		
% Solids:	79.75		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.19	0.40	1		B370650	04/11/24 14:39	SW-846 6010E
7440-47-3	Chromium	2.4	0.51	0.81	1		B370650	04/11/24 14:39	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-08-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-12
Sampled:	04/01/24 16:15		
% Solids:	71.10		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	4.0	0.21	0.45	1		B370650	04/11/24 14:48	SW-846 6010E
7440-47-3	Chromium	4.4	0.57	0.90	1		B370650	04/11/24 14:48	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-07-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-13
Sampled:	04/01/24 16:20		
% Solids:	72.20		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	4.9	0.21	0.44	1		B370650	04/11/24 14:58	SW-846 6010E
7440-47-3	Chromium	3.1	0.56	0.88	1		B370650	04/11/24 14:58	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-04-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-14
Sampled:	04/01/24 16:35		
% Solids:	78.42		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	3.1	0.19	0.40	1		B370650	04/11/24 15:08	SW-846 6010E
7440-47-3	Chromium	2.9	0.51	0.80	1		B370650	04/11/24 15:08	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-03-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-15
Sampled:	04/01/24 16:40		
% Solids:	75.00		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	3.4	0.21	0.44	1		B370650	04/11/24 15:18	SW-846 6010E
7440-47-3	Chromium	3.4	0.56	0.89	1		B370650	04/11/24 15:18	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-06-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-16
Sampled:	04/01/24 17:05		
% Solids:	75.41		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	11	0.20	0.42	1		B370650	04/11/24 15:27	SW-846 6010E
7440-47-3	Chromium	14	0.53	0.83	1		B370650	04/11/24 15:27	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-01-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-17
Sampled:	04/01/24 17:25		
% Solids:	70.14		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	14	0.22	0.46	1		B370650	04/11/24 15:36	SW-846 6010E
7440-47-3	Chromium	8.6	0.59	0.93	1		B370650	04/11/24 15:36	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-02-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-18
Sampled:	04/01/24 17:30		
% Solids:	79.58		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	4.4	0.19	0.41	1		B370650	04/11/24 15:46	SW-846 6010E
7440-47-3	Chromium	17	0.52	0.82	1		B370650	04/11/24 15:46	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-05-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-19
Sampled:	04/01/24 17:40		
% Solids:	76.32		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.20	0.42	1		B370650	04/11/24 15:55	SW-846 6010E
7440-47-3	Chromium	3.1	0.53	0.84	1		B370650	04/11/24 15:55	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SD-10-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-20
Sampled:	04/01/24 17:45		
% Solids:	75.61		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	0.25	0.20	0.43	1	J	B370650	04/11/24 16:05	SW-846 6010E
7440-47-3	Chromium	4.8	0.54	0.86	1		B370650	04/11/24 16:05	SW-846 6010E

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP4	Calibration:	2400423
		Sequence:	S103055

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103055-ICV1	Cadmium	2.00	2.02	101	mg/L	+/- 10.00%
	Chromium	2.00	2.09	105	mg/L	+/- 10.00%
S103055-CCV1	Cadmium	5.00	5.01	100	mg/L	+/- 10.00%
	Chromium	5.00	5.16	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP4	Calibration:	2400423
		Sequence:	S103057

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103057-CCV1	Cadmium	5.00	5.07	101	mg/L	+/- 10.00%
	Chromium	5.00	5.17	103	mg/L	+/- 10.00%
S103057-CCV2	Cadmium	5.00	5.10	102	mg/L	+/- 10.00%
	Chromium	5.00	5.19	104	mg/L	+/- 10.00%
S103057-CCV3	Cadmium	5.00	5.02	100	mg/L	+/- 10.00%
	Chromium	5.00	5.10	102	mg/L	+/- 10.00%

LOW-CONCENTRATION CALIBRATION VERIFICATION**SW-846 6010D****Laboratory:** Pace New England**SDG:** 24D0729**Client:** NYDEC_EA Engineering, Science & Tech. - NY**Project:** DW_Dzus Fastener Co. Inc.**Calibration:** 2400423**Laboratory ID:** S103055-LCV1**Sequence:** S103055**Standard ID:** 23J0971

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Cadmium	0.00400	0.00421	5.3	20.00
Chromium	0.0100	0.0104	4.2	20.00

* Values outside of QC limits

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0729
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP4 Calibration: 2400423
Sequence: S103055

Lab Sample ID	Analyte	Found	Units	RL	C
S103055-ICB1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0729
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP4 Calibration: 2400423
Sequence: S103057

Lab Sample ID	Analyte	Found	Units	RL	C
B370650-BLK1	Cadmium		mg/Kg wet	0.33	U
	Chromium		mg/Kg wet	0.66	U
S103057-CCB1	Cadmium		mg/L	0.010	U
	Chromium		mg/L	0.020	U
S103057-CCB2	Cadmium		mg/L	0.010	U
	Chromium		mg/L	0.020	U
S103057-CCB3	Cadmium		mg/L	0.010	U
	Chromium		mg/L	0.020	U

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. -

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP4

Calibration: 2400423

Sequence: S103057

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103057-IFA1	Cadmium	0.010		0.00		mg/L
	Chromium	0.020		0.01		mg/L
S103057-IFB1	Cadmium	0.010	2.00	2.01	101	mg/L
	Chromium	0.020	1.00	1.00	99.9	mg/L
S103057-IFA2	Cadmium	0.010		0.00		mg/L
	Chromium	0.020		0.01		mg/L
S103057-IFB2	Cadmium	0.010	2.00	2.02	101	mg/L
	Chromium	0.020	1.00	0.99	99.1	mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

152033-SM-SD-14-04012024

Laboratory: Pace New England

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Soil

Batch: B370650

% Solids: 80.11

Column:

Work Order: 24D0729

Project: DW_Dzus Fastener Co. Inc.

Analysis: SW-846 6010D

Preparation: SW-846 3050B

Laboratory ID: B370650-MS1

Sample Lab ID: 24D0729-08

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.	
Cadmium	20.3	ND	20.0	98.5		75 - 125
Chromium	20.3	0.715	26.8 MS-22	128	N	75 - 125

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Cadmium	20.5	19.6	95.8	1.86	35	75 - 125
Chromium	20.5	23.2	109	14.7	35	75 - 125

POST DIGEST SPIKE SAMPLE RECOVERY

24D0729-08

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	B370650-PS1
Batch:	B370650	Analysis:	SW-846 6010D
Preparation:	SW-846 3050B	Initial/Final:	1.521 g / 50 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control..... Limit %R
Cadmium	1.99	ND	2.00	99.6	75 - 125
Chromium	2.14	0.0174	2.00	106	75 - 125

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Preparation:	SW-846 3050B
Batch:	B370650	Laboratory ID:	B370650-BS1
Column:		Initial/Final:	0.505 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Cadmium	212	242	114	82.5 - 117.9
Chromium	180	220	122 *	81.1 - 118.3

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Cadmium	212	212	100	13.1	20	82.5 - 117.9
Chromium	180	184	102	17.8	30	81.1 - 118.3

SERIAL DILUTION

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	B370650-SRL1
Sequence:	B370650	Source:	152033-SM-SD-14-04012024

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Chromium	ND	ND	N/A		20.00
Cadmium	ND	ND	N/A		20.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Pace New England

Work Order: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Soil

Instrument: ICP4

Analyte	MDL	MRL	Units	Method
Cadmium	0.24	0.50	mg/Kg	SW-846 6010D
Chromium	0.63	1.0	mg/Kg	SW-846 6010D

PREPARATION BATCH SUMMARY

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0729
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Batch: B370650 Batch Matrix: Soil Preparation: SW-846 3050B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-SD-14-04012024	24D0729-08	04/05/24 13:20	1.52	50.00
152033-SM-SD-13-04012024	24D0729-09	04/05/24 13:20	1.56	50.00
152033-SM-SD-12-04012024	24D0729-10	04/05/24 13:20	1.51	50.00
152033-SM-SD-09-04012024	24D0729-11	04/05/24 13:20	1.55	50.00
152033-SM-SD-08-04012024	24D0729-12	04/05/24 13:20	1.56	50.00
152033-SM-SD-07-04012024	24D0729-13	04/05/24 13:20	1.58	50.00
152033-SM-SD-04-04012024	24D0729-14	04/05/24 13:20	1.59	50.00
152033-SM-SD-03-04012024	24D0729-15	04/05/24 13:20	1.51	50.00
152033-SM-SD-06-04012024	24D0729-16	04/05/24 13:20	1.59	50.00
152033-SM-SD-01-04012024	24D0729-17	04/05/24 13:20	1.54	50.00
152033-SM-SD-02-04012024	24D0729-18	04/05/24 13:20	1.53	50.00
152033-SM-SD-05-04012024	24D0729-19	04/05/24 13:20	1.57	50.00
152033-SM-SD-10-04012024	24D0729-20	04/05/24 13:20	1.54	50.00
Blank	B370650-BLK1	04/05/24 13:20	1.52	50.00
LCS	B370650-BS1	04/05/24 13:20	0.51	50.00
LCS Dup	B370650-BSD1	04/05/24 13:20	0.50	50.00
152033-SM-SD-14-04012024	B370650-MS1	04/05/24 13:20	1.54	50.00
152033-SM-SD-14-04012024	B370650-MSD1	04/05/24 13:20	1.52	50.00
152033-SM-SD-14-04012024	B370650-SRL1	04/05/24 13:20	1.52	50.00

PREPARATION BENCH SHEET B370650

84

Prepared: 04/05/24 13:20

Printed: 4/22/2024 11:08:57AM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due	TAT	Spike Amount uL 1 2	Comments	Priority
B370650-BLK1	Blank		1.521	50					
B370650-BS1	LCS		0.505	50			505		
B370650-BSD1	LCS Dup		0.504	50			504		
B370650-MS1	Matrix Spike [24D0729-08]		1.535	50			250		
B370650-MSD1	Matrix Spike Dup [24D0729-08]		1.521	50			250		
B370650-PS1	Post Spike [24D0729-08]		1.521	50			1000		
B370650-SRL1	Dilution Check [24D0729-08]		1.521	50					
24D0729-08	152033-SM-SD-14-0401 A 2024		1.521	50	04/19/24	10		CAT B - Report to MDL	
24D0729-09	152033-SM-SD-13-0401 A 2024		1.563	50	04/19/24	10		CAT B - Report to MDL	
24D0729-10	152033-SM-SD-12-0401 A 2024		1.508	50	04/19/24	10		CAT B - Report to MDL	
24D0729-11	152033-SM-SD-09-0401 A 2024		1.552	50	04/19/24	10		CAT B - Report to MDL	
24D0729-12	152033-SM-SD-08-0401 A 2024		1.555	50	04/19/24	10		CAT B - Report to MDL	
24D0729-13	152033-SM-SD-07-0401 A 2024		1.575	50	04/19/24	10		CAT B - Report to MDL	
24D0729-14	152033-SM-SD-04-0401 A 2024		1.587	50	04/19/24	10		CAT B - Report to MDL	
24D0729-15	152033-SM-SD-03-0401 A 2024		1.505	50	04/19/24	10		CAT B - Report to MDL	
24D0729-16	152033-SM-SD-06-0401 A 2024		1.591	50	04/19/24	10		CAT B - Report to MDL	
24D0729-17	152033-SM-SD-01-0401 A 2024		1.538	50	04/19/24	10		CAT B - Report to MDL	
24D0729-18	152033-SM-SD-02-0401 A 2024		1.533	50	04/19/24	10		CAT B - Report to MDL	
24D0729-19	152033-SM-SD-05-0401 A 2024		1.569	50	04/19/24	10		CAT B - Report to MDL	
24D0729-20	152033-SM-SD-10-0401 A 2024		1.542	50	04/19/24	10		CAT B - Report to MDL	
24D0735-01	152033-SM-SD-11-0401 A 2024		1.575	50	04/19/24	10		CAT B - Report to MDL	
24D0735-02	152033-SM-SD-FD-0401A 2024		1.543	50	04/19/24	10		CAT B - Report to MDL	

Cd	Cr

Standard(s):		
2305069	QC Standard CUSTOM BLEND	1000 uL
		250 uL
24B0961	SRM D123-540	504 uL
		505 uL

Standard ID#	Description
2307848	Hydrogen Peroxide (Fisher) 30% C
23K0734	Resin Pellets Solid Matrix
24B0767	Ultimate Cup, 50mL Digestion tube
24C0444	Nitric Acid 69-70%

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B370650

85

Prepared: 04/05/24 13:20

Printed: 4/22/2024 11:08:57AM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 2	Comments	Priority

EPPENDORF #M21639E

SR3 @ 95C

SCALE 2,3

SPIKED NDC 4/8/24

WITNESSED LD 4/8/24

DIGESTION START 1249

DURATION 1.25 HR

BROUGHT TO VOLUME DML 4/10/24

VERIFIED LD 4/10/24

6010 SOIL

24D0729-12 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-12 Chromium 6010 Total	CAT B - Report to MDL
24D0735-02 Chromium 6010 Total	CAT B - Report to MDL
24D0735-02 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-13 Chromium 6010 Total	CAT B - Report to MDL
24D0729-17 Chromium 6010 Total	CAT B - Report to MDL
24D0729-19 Chromium 6010 Total	CAT B - Report to MDL
24D0729-13 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-08 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-08 Chromium 6010 Total	CAT B - Report to MDL
24D0729-09 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-09 Chromium 6010 Total	CAT B - Report to MDL
24D0729-10 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-10 Chromium 6010 Total	CAT B - Report to MDL
24D0729-11 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-11 Chromium 6010 Total	CAT B - Report to MDL
24D0729-14 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-14 Chromium 6010 Total	CAT B - Report to MDL
24D0729-15 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-15 Chromium 6010 Total	CAT B - Report to MDL
24D0729-16 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-16 Chromium 6010 Total	CAT B - Report to MDL
24D0729-17 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-18 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-18 Chromium 6010 Total	CAT B - Report to MDL
24D0729-19 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-20 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-20 Chromium 6010 Total	CAT B - Report to MDL
24D0735-01 Cadmium 6010 Total	CAT B - Report to MDL
24D0735-01 Chromium 6010 Total	CAT B - Report to MDL

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

S103055

Instrument: ICP4

Calibration ID: 2400423

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103055-CAL1	QC		1		23J0970	24D0241	
S103055-CAL2	QC		2		23J0971	24D0241	
S103055-CAL3	QC		3		24D0039	24D0241	
S103055-CAL4	QC		4		24D0038	24D0241	
S103055-CAL5	QC		5		24D0037	24D0241	
S103055-CAL6	QC		6		24D0029	24D0241	
S103055-CAL7	QC		7		24D0035	24D0241	
S103055-CAL8	QC		8		23J0977	24D0241	
S103055-ICV1	QC		9		23K0257	24D0241	
S103055-ICB1	QC		10		23J0970	24D0241	
S103055-LCV1	QC		11		23J0971	24D0241	
S103055-LCV2	QC		12		23L0532	24D0241	
S103055-CCV1	QC		13		24D0029	24D0241	
S103055-IFA1	QC		14		24C0959	24D0241	
S103055-IFB1	QC		15		24D0240	24D0241	
S103055-HCV1	QC		16		24D0030	24D0241	
S103055-HCV2	QC		17		24C0960	24D0241	

Samples Loaded By

Date

Data Processed By

Date

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	128812.5
-1.6	15.0	167262.9
-1.2	15.0	211597.7
-0.8	15.0	252959.5
-0.4	15.0	288347.1
0.0	15.0	312693.9
0.4	15.0	308586.9
0.8	15.0	275747.1
1.2	15.0	224375.2
1.6	15.0	170946.7
0.0	10.0	10229.0
0.0	10.5	25569.6
0.0	11.0	38177.2
0.0	11.5	57124.9
0.0	12.0	79494.1
0.0	12.5	150009.3
0.0	13.0	197357.7
0.0	13.5	232622.5
0.0	14.0	273392.5
0.0	14.5	312615.2
0.0	15.0	309815.3
0.0	15.5	287359.0
0.0	16.0	259299.7
0.0	16.5	164102.8
0.0	17.0	122591.5
0.0	17.5	87733.0
0.0	18.0	60688.7
0.0	18.5	28358.3
0.0	19.0	18753.5
0.0	19.5	11236.5
-0.8	14.5	254511.0
-0.4	14.5	291216.8
0.0	14.5	312960.4
0.4	14.5	303799.3
0.0	12.5	153720.7
0.0	13.0	199120.5
0.0	13.5	233551.1
0.0	14.0	273976.7
0.0	14.5	311842.5
0.0	15.0	312123.0
0.0	15.5	291779.0
0.0	16.0	252516.0

4/11/2024 8:39:59 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 312123.0 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 312123.0 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-5.9	15.0	15398.3
-5.6	15.0	17011.2
-5.4	15.0	19453.3
-5.1	15.0	21274.5
-4.9	15.0	23359.6
-4.6	15.0	25865.3
-4.4	15.0	30123.3
-4.1	15.0	32646.8
-3.9	15.0	34543.8
-3.7	15.0	35221.3
-3.4	15.0	31991.9
-3.2	15.0	32264.1
-2.9	15.0	48790.9
-2.7	15.0	88481.2
-2.4	15.0	141611.4
-2.2	15.0	190308.7
-2.0	15.0	228512.9

-1.7	15.0	274397.4
-1.5	15.0	316868.4
-1.2	15.0	344054.6
-1.0	15.0	383924.6
-0.7	15.0	400987.4
-0.5	15.0	414168.9
-0.2	15.0	435951.7
0.0	15.0	440645.1
0.2	15.0	447008.4
0.5	15.0	441803.4
0.7	15.0	428869.0
1.0	15.0	423127.3
1.2	15.0	386196.4
1.5	15.0	357442.7
1.7	15.0	312652.4
2.0	15.0	268045.3
2.2	15.0	183417.8
2.4	15.0	90617.0
2.7	15.0	25014.6
2.9	15.0	11169.2
3.2	15.0	10427.8
3.4	15.0	10572.8
3.7	15.0	10555.3
3.9	15.0	10899.5
4.1	15.0	10855.8
4.4	15.0	11123.5
4.6	15.0	10677.2
4.9	15.0	10644.3
5.1	15.0	9785.4
5.4	15.0	8779.1
5.6	15.0	8400.4
5.9	15.0	8187.0

4/11/2024 8:48:25 AM aligned for analyte Mn 257.610

X viewing position set to 0.2 mm having Peak intensity 447008.4 for Radial viewing

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Method Loaded

Method Name: ICP4_012224

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2024 8:13:52 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-CAL1@BLANK 23IJ0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2024 8:57:00 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	227721.3	1531.27	0.67%	100	%
Y axial	1992055.2	24073.31	1.21%	100	%
Ag 328.068†	-29.0	12.35	42.61%	[0.00]	mg/L
Al 396.153†	-3.2	85.41	>999.9%	[0.00]	mg/L
As 188.979†	-5.4	6.16	114.44%	[0.00]	mg/L
B 208.889†	71.9	10.62	14.76%	[0.00]	mg/L
Ba 233.527†	4.2	4.65	110.05%	[0.00]	mg/L
Be 313.107†	723.5	8.86	1.22%	[0.00]	mg/L
Ca 317.933†	2019.5	17.18	0.85%	[0.00]	mg/L
Cd 228.802†	71.7	3.12	4.35%	[0.00]	mg/L
Co 228.616†	-50.9	3.17	6.23%	[0.00]	mg/L
Cr 267.716†	37.1	7.87	21.24%	[0.00]	mg/L
Cu 327.393†	72.7	49.33	67.85%	[0.00]	mg/L
Fe 238.204†	127.8	20.15	15.77%	[0.00]	mg/L
K 766.490†	-968.4	70.19	7.25%	[0.00]	mg/L
Mg 285.213†	-10.8	12.00	110.72%	[0.00]	mg/L
Mn 257.610†	-129.4	6.74	5.21%	[0.00]	mg/L
Mo 202.031†	-11.0	3.59	32.60%	[0.00]	mg/L
Na 589.592†	918.0	38.69	4.21%	[0.00]	mg/L
Ni 231.604†	-189.5	32.33	17.06%	[0.00]	mg/L
Pb 220.353†	65.2	5.45	8.37%	[0.00]	mg/L
Sb 206.836†	55.3	5.12	9.26%	[0.00]	mg/L
Se 196.026†	12.6	2.13	16.92%	[0.00]	mg/L
Sn 189.927†	10.2	6.24	61.35%	[0.00]	mg/L
Ti 337.279†	-354.4	8.10	2.29%	[0.00]	mg/L
Tl 351.924†	-27.2	33.51	123.14%	[0.00]	mg/L
V 290.880†	823.9	75.54	9.17%	[0.00]	mg/L
Zn 206.200†	130.1	8.63	6.63%	[0.00]	mg/L
Zr 343.823†	-59.7	60.93	102.06%	[0.00]	mg/L

User canceled analysis.

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-CAL1@BLANK 23IJ0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2024 9:03:04 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	228413.6	2247.83	0.98%	100	%
Y axial	1995974.8	18078.62	0.91%	100	%
Ag 328.068†	-40.6	39.93	98.36%	[0.00]	mg/L
Al 396.153†	6.5	20.31	312.55%	[0.00]	mg/L
As 188.979†	-5.6	6.63	119.00%	[0.00]	mg/L
B 208.889†	65.0	2.43	3.74%	[0.00]	mg/L
Ba 233.527†	-2.5	3.71	147.19%	[0.00]	mg/L
Be 313.107†	691.7	7.79	1.13%	[0.00]	mg/L
Ca 317.933†	2019.9	35.08	1.74%	[0.00]	mg/L

Cd 228.802†	69.1	6.14	8.89%	[0.00]	mg/L
Co 228.616†	-43.1	2.38	5.52%	[0.00]	mg/L
Cr 267.716†	41.4	12.85	31.07%	[0.00]	mg/L
Cu 327.393†	44.8	41.78	93.37%	[0.00]	mg/L
Fe 238.204†	121.4	3.25	2.68%	[0.00]	mg/L
K 766.490†	-1080.9	116.63	10.79%	[0.00]	mg/L
Mg 285.213†	-2.6	11.38	430.30%	[0.00]	mg/L
Mn 257.610†	-125.9	1.93	1.53%	[0.00]	mg/L
Mo 202.031†	-22.3	7.78	34.86%	[0.00]	mg/L
Na 589.592†	885.5	81.94	9.25%	[0.00]	mg/L
Ni 231.604†	-195.7	8.98	4.59%	[0.00]	mg/L
Pb 220.353†	72.0	5.39	7.49%	[0.00]	mg/L
Sb 206.836†	47.9	4.36	9.10%	[0.00]	mg/L
Se 196.026†	8.2	5.82	71.19%	[0.00]	mg/L
Sn 189.927†	10.3	3.02	29.29%	[0.00]	mg/L
Ti 337.279†	-348.8	34.38	9.86%	[0.00]	mg/L
Tl 351.924†	-1.0	40.25	>999.9%	[0.00]	mg/L
V 290.880†	766.8	38.35	5.00%	[0.00]	mg/L
Zn 206.200†	114.9	15.55	13.54%	[0.00]	mg/L
Zr 343.823†	-41.8	80.97	193.64%	[0.00]	mg/L

Batch ID: AVIO 500

Sequence No.: 2

Sample ID: SEQ-CAL2@ 23J0971

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 2

Date Collected: 4/11/2024 9:09:06 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL2@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Y radial	224341.7	3038.20	1.35%	98.5	%
Y axial	1950405.9	29457.79	1.51%	97.9	%
Ag 328.068†	350.1	18.06	5.16%	[0.01]	mg/L
Al 396.153†	214.2	10.44	4.88%	[0.05]	mg/L
As 188.979†	20.2	5.15	25.47%	[0.01]	mg/L
B 208.889†	623.6	17.40	2.79%	[0.1]	mg/L
Ba 233.527†	587.4	19.01	3.24%	[0.05]	mg/L
Be 313.107†	2581.8	98.84	3.83%	[0.004]	mg/L
Ca 317.933†	6806.3	150.81	2.22%	[0.5]	mg/L
Cd 228.802†	116.7	5.91	5.06%	[0.004]	mg/L
Co 228.616†	231.4	10.77	4.66%	[0.01]	mg/L
Cr 267.716†	508.5	12.94	2.54%	[0.01]	mg/L
Cu 327.393†	477.8	49.06	10.27%	[0.01]	mg/L
Fe 238.204†	415.3	19.60	4.72%	[0.05]	mg/L
Mg 285.213†	689.0	11.54	1.68%	[0.05]	mg/L
Mn 257.610†	434.8	2.94	0.68%	[0.01]	mg/L
Mo 202.031†	890.6	17.17	1.93%	[0.05]	mg/L
Ni 231.604†	375.9	15.49	4.12%	[0.01]	mg/L
Pb 220.353†	67.1	10.37	15.45%	[0.01]	mg/L
Sb 206.836†	111.7	11.07	9.91%	[0.05]	mg/L
Se 196.026†	92.2	4.30	4.66%	[0.05]	mg/L
Sn 189.927†	634.0	15.23	2.40%	[0.1]	mg/L
Ti 337.279†	708.0	17.52	2.48%	[0.02]	mg/L
Tl 351.924†	119.6	33.56	28.06%	[0.05]	mg/L
V 290.880†	805.3	37.00	4.59%	[0.01]	mg/L
Zn 206.200†	594.2	6.92	1.16%	[0.01]	mg/L

Batch ID: AVIO 500

Sequence No.: 3

Sample ID: SEQ-CAL3@ 23J0972

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 3

Date Collected: 4/11/2024 9:16:48 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL3@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	225083.1	2129.20	0.95%	98.8	%
Y axial	1951606.9	28635.86	1.47%	98.0	%
Ag 328.068†	2355.7	39.73	1.69%	[0.0625]	mg/L
Al 396.153†	1121.2	16.18	1.44%	[0.25]	mg/L
As 188.979†	203.1	3.50	1.72%	[0.125]	mg/L
B 208.889†	788.2	19.47	2.47%	[0.125]	mg/L
Ba 233.527†	1499.9	31.15	2.08%	[0.125]	mg/L
Be 313.107†	76952.4	244.12	0.32%	[0.125]	mg/L
Cd 228.802†	3234.0	63.28	1.96%	[0.125]	mg/L
Co 228.616†	2978.2	54.28	1.82%	[0.125]	mg/L
Cr 267.716†	6389.5	156.37	2.45%	[0.125]	mg/L
Cu 327.393†	7041.7	201.44	2.86%	[0.125]	mg/L
Fe 238.204†	1078.8	24.42	2.26%	[0.125]	mg/L
Mg 285.213†	3587.7	55.28	1.54%	[0.25]	mg/L
Mn 257.610†	5584.3	52.05	0.93%	[0.125]	mg/L
Mo 202.031†	2199.6	33.04	1.50%	[0.125]	mg/L
Ni 231.604†	4977.2	137.09	2.75%	[0.125]	mg/L
Pb 220.353†	839.8	23.62	2.81%	[0.125]	mg/L
Sb 206.836†	318.2	0.71	0.22%	[0.125]	mg/L
Se 196.026†	224.3	10.64	4.74%	[0.125]	mg/L
Sn 189.927†	859.3	16.91	1.97%	[0.125]	mg/L
Ti 337.279†	4438.6	43.54	0.98%	[0.125]	mg/L
Tl 351.924†	88.8	12.04	13.55%	[0.0625]	mg/L
Standard intensity and concentration values are not in the same order.					
V 290.880†	9218.5	210.85	2.29%	[0.125]	mg/L
Zn 206.200†	6868.7	130.99	1.91%	[0.125]	mg/L
Zr 343.823†	18455.3	400.47	2.17%	[0.125]	mg/L

Batch ID: AVIO 500

Sequence No.: 4

Sample ID: SEQ-CAL4@ 23J0973

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 4

Date Collected: 4/11/2024 9:24:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL4@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	226659.3	1277.75	0.56%	99.5	%
Y axial	1972038.7	15695.30	0.80%	99.0	%
Ag 328.068†	9406.1	64.17	0.68%	[0.25]	mg/L
Al 396.153†	4470.8	41.39	0.93%	[1]	mg/L
As 188.979†	788.4	2.96	0.38%	[0.5]	mg/L
B 208.889†	3176.7	26.47	0.83%	[0.5]	mg/L
Ba 233.527†	5855.3	55.89	0.95%	[0.5]	mg/L
Be 313.107†	304851.2	1206.34	0.40%	[0.5]	mg/L
Ca 317.933†	13964.9	90.68	0.65%	[1]	mg/L
Cd 228.802†	12796.3	86.46	0.68%	[0.5]	mg/L
Co 228.616†	11992.2	65.47	0.55%	[0.5]	mg/L
Cr 267.716†	24984.5	207.41	0.83%	[0.5]	mg/L
Cu 327.393†	28684.4	295.42	1.03%	[0.5]	mg/L
Fe 238.204†	4140.1	37.07	0.90%	[0.5]	mg/L
Mg 285.213†	13971.2	28.70	0.21%	[1]	mg/L
Mn 257.610†	21811.8	119.69	0.55%	[0.5]	mg/L
Mo 202.031†	8628.7	62.09	0.72%	[0.5]	mg/L
Ni 231.604†	19913.0	99.45	0.50%	[0.5]	mg/L
Pb 220.353†	3347.9	20.75	0.62%	[0.5]	mg/L
Sb 206.836†	1266.5	9.92	0.78%	[0.5]	mg/L
Se 196.026†	903.8	7.31	0.81%	[0.5]	mg/L
Sn 189.927†	3383.1	19.79	0.58%	[0.5]	mg/L
Ti 337.279†	17450.6	101.05	0.58%	[0.5]	mg/L
Tl 351.924†	456.2	14.93	3.27%	[0.25]	mg/L
Standard intensity and concentration values are not in the same order.					

V 290.880†	36111.0	221.38	0.61%	[0.5] mg/L
Zn 206.200†	27949.0	274.78	0.98%	[0.5] mg/L
Zr 343.823†	72370.5	476.54	0.66%	[0.5] mg/L

Batch ID: AVIO 500

Sequence No.: 5

Sample ID: SEQ-CAL5@ 23J0974

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 5

Date Collected: 4/11/2024 9:31:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL5@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	221724.9	911.02	0.41%	97.4 %
Y axial	1926609.8	6454.01	0.33%	96.7 %
Ag 328.068†	18289.1	366.20	2.00%	[0.5] mg/L
Al 396.153†	8102.8	27.02	0.33%	[2] mg/L
As 188.979†	1595.9	5.47	0.34%	[1] mg/L
B 208.889†	6513.3	45.57	0.70%	[1] mg/L
Ba 233.527†	11850.3	62.01	0.52%	[1] mg/L
Be 313.107†	616631.3	3579.10	0.58%	[1] mg/L
Ca 317.933†	25378.1	139.79	0.55%	[2] mg/L
Cd 228.802†	25818.4	298.51	1.16%	[1] mg/L
Co 228.616†	23950.5	212.79	0.89%	[1] mg/L
Cr 267.716†	50072.5	530.01	1.06%	[1] mg/L
Cu 327.393†	57596.5	582.10	1.01%	[1] mg/L
Fe 238.204†	7645.3	68.79	0.90%	[1] mg/L
K 766.490†	8324.6	44.98	0.54%	[2] mg/L
Mg 285.213†	25428.0	144.69	0.57%	[2] mg/L
Mn 257.610†	43912.5	226.14	0.51%	[1] mg/L
Mo 202.031†	17420.7	229.78	1.32%	[1] mg/L
Na 589.592†	18983.1	128.44	0.68%	[2] mg/L
Ni 231.604†	39697.8	434.98	1.10%	[1] mg/L
Pb 220.353†	6614.9	44.95	0.68%	[1] mg/L
Sb 206.836†	2564.8	19.00	0.74%	[1] mg/L
Se 196.026†	1801.4	17.24	0.96%	[1] mg/L
Sn 189.927†	6847.6	43.45	0.63%	[1] mg/L
Ti 337.279†	35256.5	98.18	0.28%	[1] mg/L
Tl 351.924†	926.5	27.97	3.02%	[0.5] mg/L

Standard intensity and concentration values are not in the same order.

V 290.880†	72624.3	693.69	0.96%	[1] mg/L
Zn 206.200†	55808.8	701.83	1.26%	[1] mg/L
Zr 343.823†	148508.2	1334.73	0.90%	[1] mg/L

Batch ID: AVIO 500

Sequence No.: 6

Sample ID: SEQ-CAL6@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 6

Date Collected: 4/11/2024 9:38:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL6@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	222544.0	1257.96	0.57%	97.7 %
Y axial	1924583.8	15760.95	0.82%	96.6 %
Ag 328.068†	81835.3	1223.28	1.49%	[2.5] mg/L
Al 396.153†	41686.0	111.42	0.27%	[10] mg/L
As 188.979†	7622.0	101.81	1.34%	[5] mg/L
B 208.889†	31035.9	481.59	1.55%	[5] mg/L
Ba 233.527†	56092.1	717.88	1.28%	[5] mg/L
Be 313.107†	2888181.0	47661.72	1.65%	[5] mg/L
Ca 317.933†	130417.0	443.34	0.34%	[10] mg/L

Cd 228.802†	122766.6	361.93	0.29%	[5] mg/L
Co 228.616†	112437.8	202.81	0.18%	[5] mg/L
Cr 267.716†	237101.7	439.17	0.19%	[5] mg/L
Cu 327.393†	270097.6	838.76	0.31%	[5] mg/L
Fe 238.204†	38394.6	71.95	0.19%	[5] mg/L
K 766.490†	49869.2	142.64	0.29%	[10] mg/L
Mg 285.213†	127793.8	325.71	0.25%	[10] mg/L
Mn 257.610†	203722.1	515.88	0.25%	[5] mg/L
Mo 202.031†	82588.5	287.01	0.35%	[5] mg/L
Na 589.592†	97013.5	263.42	0.27%	[10] mg/L
Ni 231.604†	185615.0	487.72	0.26%	[5] mg/L
Pb 220.353†	30736.4	479.42	1.56%	[5] mg/L
Sb 206.836†	12152.1	163.97	1.35%	[5] mg/L
Se 196.026†	8643.1	111.27	1.29%	[5] mg/L
Sn 189.927†	31972.2	491.28	1.54%	[5] mg/L
Ti 337.279†	167229.3	353.72	0.21%	[5] mg/L
Tl 351.924†	4348.7	74.37	1.71%	[2.5] mg/L
Standard intensity and concentration values are not in the same order.				
V 290.880†	348011.5	960.68	0.28%	[5] mg/L
Zn 206.200†	266839.7	755.40	0.28%	[5] mg/L
Zr 343.823†	696548.0	1910.15	0.27%	[5] mg/L

Batch ID: AVIO 500

Sequence No.: 7

Sample ID: SEQ-CAL7@ 23J0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 7

Date Collected: 4/11/2024 9:44:01 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL7@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	203394.7	220.19	0.11%	89.3 %
Y axial	1747650.5	29472.11	1.69%	87.7 %
Ag 328.068†	163166.6	5023.79	3.08%	[5] mg/L
Al 396.153†	86545.4	262.68	0.30%	[20] mg/L
As 188.979†	15751.8	325.92	2.07%	[10] mg/L
B 208.889†	63665.4	1130.63	1.78%	[10] mg/L
Ba 233.527†	114516.3	1660.34	1.45%	[10] mg/L
Be 313.107†	5889983.6	76595.78	1.30%	[10] mg/L
Ca 317.933†	266317.2	849.29	0.32%	[20] mg/L
Cd 228.802†	250442.7	698.00	0.28%	[10] mg/L
Co 228.616†	226030.6	529.33	0.23%	[10] mg/L
Cr 267.716†	480498.4	1033.42	0.22%	[10] mg/L
Cu 327.393†	550982.1	1664.21	0.30%	[10] mg/L
Fe 238.204†	77986.7	203.39	0.26%	[10] mg/L
K 766.490†	110318.1	148.46	0.13%	[20] mg/L
Mg 285.213†	261053.9	625.53	0.24%	[20] mg/L
Mn 257.610†	412196.4	937.35	0.23%	[10] mg/L
Mo 202.031†	168777.4	472.65	0.28%	[10] mg/L
Na 589.592†	201236.6	535.69	0.27%	[20] mg/L
Ni 231.604†	373358.5	1181.50	0.32%	[10] mg/L
Pb 220.353†	61598.4	60.29	0.10%	[10] mg/L
Sb 206.836†	25034.3	506.61	2.02%	[10] mg/L
Se 196.026†	17617.0	296.82	1.68%	[10] mg/L
Sn 189.927†	65005.0	1305.05	2.01%	[10] mg/L
Ti 337.279†	344775.3	1099.63	0.32%	[10] mg/L
Tl 351.924†	8526.8	85.14	1.00%	[5] mg/L
Standard intensity and concentration values are not in the same order.				
V 290.880†	712691.7	1503.51	0.21%	[10] mg/L
Zn 206.200†	534406.5	2046.98	0.38%	[10] mg/L
Zr 343.823†	1442268.8	3578.01	0.25%	[10] mg/L

Batch ID: AVIO 500

Sequence No.: 8

Sample ID: SEQ-CAL8@ 23J0977

Autosampler Location: 8

Date Collected: 4/11/2024 9:50:08 AM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CAL8@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y radial	191957.7	2671.03	1.39%	84.3 %
Y axial	1688171.6	10917.57	0.65%	84.7 %
Al 396.153†	214063.2	141.54	0.07%	[50] mg/L
Ca 317.933†	674825.9	1443.90	0.21%	[50] mg/L
Fe 238.204†	201555.5	126.51	0.06%	[25] mg/L
K 766.490†	282303.4	744.55	0.26%	[50] mg/L
Mg 285.213†	667549.0	770.99	0.12%	[50] mg/L
Na 589.592†	513702.6	669.09	0.13%	[50] mg/L

CALIBRATION
PASSED >0.998
NDC 04/12/2024

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	32700	0.00000	0.999919	
Al 396.153	7	Lin Thru 0	0.0	4283	0.00000	0.999979	
As 188.979	6	Lin Thru 0	0.0	1565	0.00000	0.999915	
B 208.889	6	Lin Thru 0	0.0	6336	0.00000	0.999947	
Ba 233.527	6	Lin Thru 0	0.0	11410	0.00000	0.999960	
Be 313.107	6	Lin Thru 0	0.0	587000	0.00000	0.999959	
Ca 317.933	6	Lin Thru 0	0.0	13460	0.00000	0.999971	
Cd 228.802	6	Lin Thru 0	0.0	24950	0.00000	0.999964	
Co 228.616	6	Lin Thru 0	0.0	22590	0.00000	0.999980	
Cr 267.716	6	Lin Thru 0	0.0	47950	0.00000	0.999976	
Cu 327.393	6	Lin Thru 0	0.0	54910	0.00000	0.999958	
Fe 238.204	7	Lin Thru 0	0.0	8014	0.00000	0.999906	
K 766.490	4	Lin Thru 0	0.0	5605	0.00000	0.999714	
Mg 285.213	7	Lin Thru 0	0.0	13290	0.00000	0.999944	
Mn 257.610	6	Lin Thru 0	0.0	41150	0.00000	0.999967	
Mo 202.031	6	Lin Thru 0	0.0	16810	0.00000	0.999958	
Na 589.592	4	Lin Thru 0	0.0	10230	0.00000	0.999926	
Ni 231.604	6	Lin Thru 0	0.0	37320	0.00000	0.999976	
Pb 220.353	6	Lin Thru 0	0.0	6162	0.00000	0.999970	
Sb 206.836	6	Lin Thru 0	0.0	2490	0.00000	0.999928	
Se 196.026	6	Lin Thru 0	0.0	1756	0.00000	0.999968	
Sn 189.927	6	Lin Thru 0	0.0	6483	0.00000	0.999964	
Ti 337.279	6	Lin Thru 0	0.0	34280	0.00000	0.999925	
Tl 351.924	6	Lin Thru 0	0.0	1714	0.00000	0.999930	
V 290.880	6	Lin Thru 0	0.0	70950	0.00000	0.999954	
Zn 206.200	6	Lin Thru 0	0.0	53450	0.00000	0.999990	
Zr 343.823	5	Lin Thru 0	0.0	143300	0.00000	0.999901	

Calibration data for Ag 328.068

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	39.93	98.36	N/A
SEQ-CAL2@ 23J0971	350.1	0.01	0.0107	18.06	5.16	7.08%
SEQ-CAL3@ 23J0972	2355.7	0.0625	0.0721	39.73	1.69	15.28%
SEQ-CAL4@ 23J0973	9406.1	0.25	0.2877	64.17	0.68	15.08%
SEQ-CAL5@ 23J0974	18289.1	0.5	0.5594	366.20	2.00	11.88%
SEQ-CAL6@ 23J0975	81835.3	2.5	2.503	1223.28	1.49	0.12%
SEQ-CAL7@ 23J0976	163166.6	5.0	4.991	5023.79	3.08	-0.19%
Correlation Coef.: 0.999919		Slope: 32700		Intercept: 0.0		

Calibration data for Al 396.153

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	20.31	312.55	N/A

Method: ICP4_012224

Page 9

Date: 4/11/2024 9:51:42 AM

SEQ-CAL2@	23J0971	214.2	0.05	0.0500	10.44	4.88	0.01%
SEQ-CAL3@	23J0972	1121.2	0.25	0.2617	16.18	1.44	4.70%
SEQ-CAL4@	23J0973	4470.8	1.0	1.044	41.39	0.93	4.37%
SEQ-CAL5@	23J0974	8102.8	2.0	1.892	27.02	0.33	-5.42%
SEQ-CAL6@	23J0975	41686.0	10.0	9.732	111.42	0.27	-2.68%
SEQ-CAL7@	23J0976	86545.4	20.0	20.20	262.68	0.30	1.02%
SEQ-CAL8@	23J0977	214063.2	50.0	49.98	141.54	0.07	-0.05%

Correlation Coef.: 0.999979 Slope: 4283 Intercept: 0.0

Calibration data for As 188.979

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	6.63	119.00	N/A
SEQ-CAL2@ 23J0971	20.2	0.01	0.0129	5.15	25.47	29.26%
SEQ-CAL3@ 23J0972	203.1	0.125	0.1297	3.50	1.72	3.79%
SEQ-CAL4@ 23J0973	788.4	0.5	0.5037	2.96	0.38	0.74%
SEQ-CAL5@ 23J0974	1595.9	1.0	1.020	5.47	0.34	1.96%
SEQ-CAL6@ 23J0975	7622.0	5.0	4.869	101.81	1.34	-2.61%
SEQ-CAL7@ 23J0976	15751.8	10.0	10.06	325.92	2.07	0.63%

Correlation Coef.: 0.999915 Slope: 1565 Intercept: 0.0

Calibration data for B 208.889

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.43	3.74	N/A
SEQ-CAL2@ 23J0971	623.6	0.1	0.0984	17.40	2.79	-1.57%
SEQ-CAL3@ 23J0972	788.2	0.125	0.1244	19.47	2.47	-0.48%
SEQ-CAL4@ 23J0973	3176.7	0.5	0.5014	26.47	0.83	0.27%
SEQ-CAL5@ 23J0974	6513.3	1.0	1.028	45.57	0.70	2.80%
SEQ-CAL6@ 23J0975	31035.9	5.0	4.898	481.59	1.55	-2.03%
SEQ-CAL7@ 23J0976	63665.4	10.0	10.05	1130.63	1.78	0.48%

Correlation Coef.: 0.999947 Slope: 6336 Intercept: 0.0

Calibration data for Ba 233.527

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.71	147.19	N/A
SEQ-CAL2@ 23J0971	587.4	0.05	0.0515	19.01	3.24	2.98%
SEQ-CAL3@ 23J0972	1499.9	0.125	0.1315	31.15	2.08	5.17%
SEQ-CAL4@ 23J0973	5855.3	0.5	0.5132	55.89	0.95	2.64%
SEQ-CAL5@ 23J0974	11850.3	1.0	1.039	62.01	0.52	3.87%
SEQ-CAL6@ 23J0975	56092.1	5.0	4.916	717.88	1.28	-1.67%
SEQ-CAL7@ 23J0976	114516.3	10.0	10.04	1660.34	1.45	0.37%

Correlation Coef.: 0.999960 Slope: 11410 Intercept: 0.0

Calibration data for Be 313.107

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	7.79	1.13	N/A
SEQ-CAL2@ 23J0971	2581.8	0.004	0.0044	98.84	3.83	9.95%
SEQ-CAL3@ 23J0972	76952.4	0.125	0.1311	244.12	0.32	4.87%
SEQ-CAL4@ 23J0973	304851.2	0.5	0.5193	1206.34	0.40	3.87%
SEQ-CAL5@ 23J0974	616631.3	1.0	1.050	3579.10	0.58	5.05%
SEQ-CAL6@ 23J0975	2888181.0	5.0	4.920	47661.72	1.65	-1.60%
SEQ-CAL7@ 23J0976	5889983.6	10.0	10.03	76595.78	1.30	0.34%

Correlation Coef.: 0.999959 Slope: 587000 Intercept: 0.0

Calibration data for Ca 317.933

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	35.08	1.74	N/A
SEQ-CAL2@ 23J0971	6806.3	0.5	0.5058	150.81	2.22	1.16%
SEQ-CAL4@ 23J0973	13964.9	1.0	1.038	90.68	0.65	3.78%
SEQ-CAL5@ 23J0974	25378.1	2.0	1.886	139.79	0.55	-5.70%
SEQ-CAL6@ 23J0975	130417.0	10.0	9.692	443.34	0.34	-3.08%
SEQ-CAL7@ 23J0976	266317.2	20.0	19.79	849.29	0.32	-1.04%
SEQ-CAL8@ 23J0977	674825.9	50.0	50.15	1443.90	0.21	0.30%
Correlation Coef.: 0.999971 Slope: 13460 Intercept: 0.0						

Calibration data for Cd 228.802

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	6.14	8.89	N/A
SEQ-CAL2@ 23J0971	116.7	0.004	0.0047	5.91	5.06	16.88%
SEQ-CAL3@ 23J0972	3234.0	0.125	0.1296	63.28	1.96	3.68%
SEQ-CAL4@ 23J0973	12796.3	0.5	0.5128	86.46	0.68	2.56%
SEQ-CAL5@ 23J0974	25818.4	1.0	1.035	298.51	1.16	3.46%
SEQ-CAL6@ 23J0975	122766.6	5.0	4.920	361.93	0.29	-1.61%
SEQ-CAL7@ 23J0976	250442.7	10.0	10.04	698.00	0.28	0.36%
Correlation Coef.: 0.999964 Slope: 24950 Intercept: 0.0						

Calibration data for Co 228.616

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.38	5.52	N/A
SEQ-CAL2@ 23J0971	231.4	0.01	0.0102	10.77	4.66	2.42%
SEQ-CAL3@ 23J0972	2978.2	0.125	0.1318	54.28	1.82	5.45%
SEQ-CAL4@ 23J0973	11992.2	0.5	0.5308	65.47	0.55	6.15%
SEQ-CAL5@ 23J0974	23950.5	1.0	1.060	212.79	0.89	6.00%
SEQ-CAL6@ 23J0975	112437.8	5.0	4.976	202.81	0.18	-0.47%
SEQ-CAL7@ 23J0976	226030.6	10.0	10.00	529.33	0.23	0.04%
Correlation Coef.: 0.999980 Slope: 22590 Intercept: 0.0						

Calibration data for Cr 267.716

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	12.85	31.07	N/A
SEQ-CAL2@ 23J0971	508.5	0.01	0.0106	12.94	2.54	6.06%
SEQ-CAL3@ 23J0972	6389.5	0.125	0.1333	156.37	2.45	6.61%
SEQ-CAL4@ 23J0973	24984.5	0.5	0.5211	207.41	0.83	4.22%
SEQ-CAL5@ 23J0974	50072.5	1.0	1.044	530.01	1.06	4.44%
SEQ-CAL6@ 23J0975	237101.7	5.0	4.945	439.17	0.19	-1.10%
SEQ-CAL7@ 23J0976	480498.4	10.0	10.02	1033.42	0.22	0.22%
Correlation Coef.: 0.999976 Slope: 47950 Intercept: 0.0						

Calibration data for Cu 327.393

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	41.78	93.37	N/A
SEQ-CAL2@ 23J0971	477.8	0.01	0.0087	49.06	10.27	-12.98%
SEQ-CAL3@ 23J0972	7041.7	0.125	0.1282	201.44	2.86	2.59%
SEQ-CAL4@ 23J0973	28684.4	0.5	0.5224	295.42	1.03	4.48%
SEQ-CAL5@ 23J0974	57596.5	1.0	1.049	582.10	1.01	4.89%
SEQ-CAL6@ 23J0975	270097.6	5.0	4.919	838.76	0.31	-1.62%
SEQ-CAL7@ 23J0976	550982.1	10.0	10.03	1664.21	0.30	0.34%
Correlation Coef.: 0.999958 Slope: 54910 Intercept: 0.0						

Calibration data for Fe 238.204

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.25	2.68	N/A
SEQ-CAL2@ 23J0971	415.3	0.05	0.0518	19.60	4.72	3.65%
SEQ-CAL3@ 23J0972	1078.8	0.125	0.1346	24.42	2.26	7.69%
SEQ-CAL4@ 23J0973	4140.1	0.5	0.5166	37.07	0.90	3.32%
SEQ-CAL5@ 23J0974	7645.3	1.0	0.9540	68.79	0.90	-4.60%
SEQ-CAL6@ 23J0975	38394.6	5.0	4.791	71.95	0.19	-4.18%
SEQ-CAL7@ 23J0976	77986.7	10.0	9.731	203.39	0.26	-2.69%
SEQ-CAL8@ 23J0977	201555.5	25.0	25.15	126.51	0.06	0.60%
Correlation Coef.: 0.999906 Slope: 8014 Intercept: 0.0						

Calibration data for K 766.490

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	116.63	10.79	N/A
SEQ-CAL5@ 23J0974	8324.6	2.0	1.485	44.98	0.54	-25.74%
SEQ-CAL6@ 23J0975	49869.2	10.0	8.898	142.64	0.29	-11.02%
SEQ-CAL7@ 23J0976	110318.1	20.0	19.68	148.46	0.13	-1.59%
SEQ-CAL8@ 23J0977	282303.4	50.0	50.37	744.55	0.26	0.74%
Correlation Coef.: 0.999714 Slope: 5605 Intercept: 0.0						

Calibration data for Mg 285.213

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	11.38	430.30	N/A
SEQ-CAL2@ 23J0971	689.0	0.05	0.0518	11.54	1.68	3.68%
SEQ-CAL3@ 23J0972	3587.7	0.25	0.2699	55.28	1.54	7.97%
SEQ-CAL4@ 23J0973	13971.2	1.0	1.051	28.70	0.21	5.11%
SEQ-CAL5@ 23J0974	25428.0	2.0	1.913	144.69	0.57	-4.35%
SEQ-CAL6@ 23J0975	127793.8	10.0	9.615	325.71	0.25	-3.85%
SEQ-CAL7@ 23J0976	261053.9	20.0	19.64	625.53	0.24	-1.80%
SEQ-CAL8@ 23J0977	667549.0	50.0	50.22	770.99	0.12	0.45%
Correlation Coef.: 0.999944 Slope: 13290 Intercept: 0.0						

Calibration data for Mn 257.610

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.93	1.53	N/A
SEQ-CAL2@ 23J0971	434.8	0.01	0.0106	2.94	0.68	5.65%
SEQ-CAL3@ 23J0972	5584.3	0.125	0.1357	52.05	0.93	8.56%
SEQ-CAL4@ 23J0973	21811.8	0.5	0.5300	119.69	0.55	6.01%
SEQ-CAL5@ 23J0974	43912.5	1.0	1.067	226.14	0.51	6.71%
SEQ-CAL6@ 23J0975	203722.1	5.0	4.950	515.88	0.25	-0.99%
SEQ-CAL7@ 23J0976	412196.4	10.0	10.02	937.35	0.23	0.16%
Correlation Coef.: 0.999967 Slope: 41150 Intercept: 0.0						

Calibration data for Mo 202.031

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	7.78	34.86	N/A
SEQ-CAL2@ 23J0971	890.6	0.05	0.0530	17.17	1.93	5.95%
SEQ-CAL3@ 23J0972	2199.6	0.125	0.1308	33.04	1.50	4.67%
SEQ-CAL4@ 23J0973	8628.7	0.5	0.5133	62.09	0.72	2.65%
SEQ-CAL5@ 23J0974	17420.7	1.0	1.036	229.78	1.32	3.62%
SEQ-CAL6@ 23J0975	82588.5	5.0	4.913	287.01	0.35	-1.75%
SEQ-CAL7@ 23J0976	168777.4	10.0	10.04	472.65	0.28	0.39%
Correlation Coef.: 0.999958 Slope: 16810 Intercept: 0.0						

Calibration data for Na 589.592

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

Sample ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	81.94	9.25	N/A
SEQ-CAL5@ 23J0974	18983.1	2.0	1.856	128.44	0.68	-7.18%
SEQ-CAL6@ 23J0975	97013.5	10.0	9.487	263.42	0.27	-5.13%
SEQ-CAL7@ 23J0976	201236.6	20.0	19.68	535.69	0.27	-1.60%
SEQ-CAL8@ 23J0977	513702.6	50.0	50.24	669.09	0.13	0.47%

Correlation Coef.: 0.999926 Slope: 10230 Intercept: 0.0

Calibration data for Ni 231.604

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	8.98	4.59	N/A
SEQ-CAL2@ 23J0971	375.9	0.01	0.0101	15.49	4.12	0.72%
SEQ-CAL3@ 23J0972	4977.2	0.125	0.1334	137.09	2.75	6.70%
SEQ-CAL4@ 23J0973	19913.0	0.5	0.5336	99.45	0.50	6.72%
SEQ-CAL5@ 23J0974	39697.8	1.0	1.064	434.98	1.10	6.38%
SEQ-CAL6@ 23J0975	185615.0	5.0	4.974	487.72	0.26	-0.52%
SEQ-CAL7@ 23J0976	373358.5	10.0	10.00	1181.50	0.32	0.05%

Correlation Coef.: 0.999976 Slope: 37320 Intercept: 0.0

Calibration data for Pb 220.353

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.39	7.49	N/A
SEQ-CAL2@ 23J0971	67.1	0.01	0.0109	10.37	15.45	8.87%
SEQ-CAL3@ 23J0972	839.8	0.125	0.1363	23.62	2.81	9.03%
SEQ-CAL4@ 23J0973	3347.9	0.5	0.5433	20.75	0.62	8.66%
SEQ-CAL5@ 23J0974	6614.9	1.0	1.073	44.95	0.68	7.35%
SEQ-CAL6@ 23J0975	30736.4	5.0	4.988	479.42	1.56	-0.24%
SEQ-CAL7@ 23J0976	61598.4	10.0	9.996	60.29	0.10	-0.04%

Correlation Coef.: 0.999970 Slope: 6162 Intercept: 0.0

Calibration data for Sb 206.836

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	4.36	9.10	N/A
SEQ-CAL2@ 23J0971	111.7	0.05	0.0449	11.07	9.91	-10.24%
SEQ-CAL3@ 23J0972	318.2	0.125	0.1278	0.71	0.22	2.27%
SEQ-CAL4@ 23J0973	1266.5	0.5	0.5087	9.92	0.78	1.75%
SEQ-CAL5@ 23J0974	2564.8	1.0	1.030	19.00	0.74	3.02%
SEQ-CAL6@ 23J0975	12152.1	5.0	4.881	163.97	1.35	-2.37%
SEQ-CAL7@ 23J0976	25034.3	10.0	10.06	506.61	2.02	0.56%

Correlation Coef.: 0.999928 Slope: 2490 Intercept: 0.0

Calibration data for Se 196.026

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.82	71.19	N/A
SEQ-CAL2@ 23J0971	92.2	0.05	0.0525	4.30	4.66	5.07%
SEQ-CAL3@ 23J0972	224.3	0.125	0.1278	10.64	4.74	2.23%
SEQ-CAL4@ 23J0973	903.8	0.5	0.5148	7.31	0.81	2.96%
SEQ-CAL5@ 23J0974	1801.4	1.0	1.026	17.24	0.96	2.61%
SEQ-CAL6@ 23J0975	8643.1	5.0	4.923	111.27	1.29	-1.54%
SEQ-CAL7@ 23J0976	17617.0	10.0	10.03	296.82	1.68	0.35%

Correlation Coef.: 0.999968 Slope: 1756 Intercept: 0.0

Calibration data for Sn 189.927

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.02	29.29	N/A
SEQ-CAL2@ 23J0971	634.0	0.1	0.0978	15.23	2.40	-2.21%

SEQ-CAL3@	23J0972	859.3	0.125	0.1326	16.91	1.97	6.05%
SEQ-CAL4@	23J0973	3383.1	0.5	0.5219	19.79	0.58	4.37%
SEQ-CAL5@	23J0974	6847.6	1.0	1.056	43.45	0.63	5.63%
SEQ-CAL6@	23J0975	31972.2	5.0	4.932	491.28	1.54	-1.36%
SEQ-CAL7@	23J0976	65005.0	10.0	10.03	1305.05	2.01	0.27%

Correlation Coef.: 0.999964 Slope: 6483 Intercept: 0.0

Calibration data for Ti 337.279

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	34.38	9.86	N/A
SEQ-CAL2@ 23J0971	708.0	0.02	0.0207	17.52	2.48	3.26%
SEQ-CAL3@ 23J0972	4438.6	0.125	0.1295	43.54	0.98	3.58%
SEQ-CAL4@ 23J0973	17450.6	0.5	0.5091	101.05	0.58	1.81%
SEQ-CAL5@ 23J0974	35256.5	1.0	1.028	98.18	0.28	2.85%
SEQ-CAL6@ 23J0975	167229.3	5.0	4.878	353.72	0.21	-2.43%
SEQ-CAL7@ 23J0976	344775.3	10.0	10.06	1099.63	0.32	0.58%

Correlation Coef.: 0.999925 Slope: 34280 Intercept: 0.0

Calibration data for Tl 351.924

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	40.25	>999.9%	N/A
SEQ-CAL2@ 23J0971	119.6	0.05	0.0698	33.56	28.06	39.60%
SEQ-CAL3@ 23J0972	88.8	0.0625	0.0518	12.04	13.55	-17.04%
SEQ-CAL4@ 23J0973	456.2	0.25	0.2662	14.93	3.27	6.48%
SEQ-CAL5@ 23J0974	926.5	0.5	0.5407	27.97	3.02	8.13%
SEQ-CAL6@ 23J0975	4348.7	2.5	2.538	74.37	1.71	1.51%
SEQ-CAL7@ 23J0976	8526.8	5.0	4.976	85.14	1.00	-0.48%

Correlation Coef.: 0.999930 Slope: 1714 Intercept: 0.0

Calibration data for V 290.880

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	38.35	5.00	N/A
SEQ-CAL2@ 23J0971	805.3	0.01	0.0113	37.00	4.59	13.50%
SEQ-CAL3@ 23J0972	9218.5	0.125	0.1299	210.85	2.29	3.94%
SEQ-CAL4@ 23J0973	36111.0	0.5	0.5089	221.38	0.61	1.79%
SEQ-CAL5@ 23J0974	72624.3	1.0	1.024	693.69	0.96	2.36%
SEQ-CAL6@ 23J0975	348011.5	5.0	4.905	960.68	0.28	-1.90%
SEQ-CAL7@ 23J0976	712691.7	10.0	10.04	1503.51	0.21	0.45%

Correlation Coef.: 0.999954 Slope: 70950 Intercept: 0.0

Calibration data for Zn 206.200

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	15.55	13.54	N/A
SEQ-CAL2@ 23J0971	594.2	0.01	0.0111	6.92	1.16	11.17%
SEQ-CAL3@ 23J0972	6868.7	0.125	0.1285	130.99	1.91	2.80%
SEQ-CAL4@ 23J0973	27949.0	0.5	0.5229	274.78	0.98	4.58%
SEQ-CAL5@ 23J0974	55808.8	1.0	1.044	701.83	1.26	4.41%
SEQ-CAL6@ 23J0975	266839.7	5.0	4.992	755.40	0.28	-0.15%
SEQ-CAL7@ 23J0976	534406.5	10.0	9.998	2046.98	0.38	-0.02%

Correlation Coef.: 0.999990 Slope: 53450 Intercept: 0.0

Calibration data for Zr 343.823

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	80.97	193.64	N/A
SEQ-CAL3@ 23J0972	18455.3	0.125	0.1288	400.47	2.17	3.04%

SEQ-CAL4@	23J0973	72370.5	0.5	0.5051	476.54	0.66	1.01%
SEQ-CAL5@	23J0974	148508.2	1.0	1.036	1334.73	0.90	3.64%
SEQ-CAL6@	23J0975	696548.0	5.0	4.861	1910.15	0.27	-2.78%
SEQ-CAL7@	23J0976	1442268.8	10.0	10.07	3578.01	0.25	0.65%
Correlation Coef.: 0.999901 Slope: 143300 Intercept: 0.0							

No 6010 Ag, As, K,
Ti; OK 200.7 NDC
04/12/2024

Method Loaded

Method Name: ICP4_012224*

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2024 8:13:52 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 8

Date Collected: 4/11/2024 10:05:56 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICV@ 23K0257

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	194194.3	85.3 %	0.03	85.3 %	0.03	0.04%
Y axial	1790097.2	89.9 %	0.91	89.9 %	0.91	1.01%
Ag 328.068†	35271.0	1.076 mg/L	0.0178	1.076 mg/L	0.0178	1.65%
QC value greater than the upper limit for Ag 328.068 Recovery = 107.60%						
Al 396.153†	9377.2	2.042 mg/L	0.0156	2.042 mg/L	0.0156	0.76%
QC value within limits for Al 396.153 Recovery = 102.10%						
As 188.979†	3196.4	2.026 mg/L	0.0201	2.026 mg/L	0.0201	0.99%
QC value within limits for As 188.979 Recovery = 101.28%						
B 208.889†	12831.2	1.909 mg/L	0.0194	1.909 mg/L	0.0194	1.02%
QC value within limits for B 208.889 Recovery = 95.46%						
Ba 233.527†	21822.8	1.913 mg/L	0.0069	1.913 mg/L	0.0069	0.36%
QC value within limits for Ba 233.527 Recovery = 95.64%						
Be 313.107†	1195722.6	2.030 mg/L	0.0066	2.030 mg/L	0.0066	0.33%
QC value within limits for Be 313.107 Recovery = 101.52%						
Ca 317.933†	27435.2	2.039 mg/L	0.0133	2.039 mg/L	0.0133	0.65%
QC value within limits for Ca 317.933 Recovery = 101.94%						
Cd 228.802†	51685.1	2.022 mg/L	0.0167	2.022 mg/L	0.0167	0.83%
QC value within limits for Cd 228.802 Recovery = 101.10%						
Co 228.616†	47296.2	2.091 mg/L	0.0181	2.091 mg/L	0.0181	0.87%

No 200.7: Ag, Cu,
Pb OK 6010; No K,
TI NDC 04/12/2024

QC value within limits for Co 228.616 Recovery = 104.53%
 Cr 267.716† 100354.0 2.094 mg/L 0.0070 2.094 mg/L 0.0070 0.33%
 QC value within limits for Cr 267.716 Recovery = 104.70%
 Cu 327.393† 115115.8 2.109 mg/L 0.0058 2.109 mg/L 0.0058 0.27%
 QC value greater than the upper limit for Cu 327.393 Recovery = 105.43%
 Fe 238.204† 16557.8 2.091 mg/L 0.0122 2.091 mg/L 0.0122 0.58%
 QC value within limits for Fe 238.204 Recovery = 104.57%
 K 766.490† 9853.3 1.758 mg/L 0.0354 1.758 mg/L 0.0354 2.01%
 QC value less than the lower limit for K 766.490 Recovery = 87.90%
 Mg 285.213† 27854.5 2.090 mg/L 0.0154 2.090 mg/L 0.0154 0.74%
 QC value within limits for Mg 285.213 Recovery = 104.50%
 Mn 257.610† 83834.0 2.037 mg/L 0.0128 2.037 mg/L 0.0128 0.63%
 QC value within limits for Mn 257.610 Recovery = 101.86%
 Mo 202.031† 34160.0 2.032 mg/L 0.0179 2.032 mg/L 0.0179 0.88%
 QC value within limits for Mo 202.031 Recovery = 101.60%
 Na 589.592† 21197.4 2.073 mg/L 0.0148 2.073 mg/L 0.0148 0.72%
 QC value within limits for Na 589.592 Recovery = 103.65%
 Ni 231.604† 77350.4 2.070 mg/L 0.0095 2.070 mg/L 0.0095 0.46%
 QC value within limits for Ni 231.604 Recovery = 103.52%
 Pb 220.353† 12928.6 2.102 mg/L 0.0262 2.102 mg/L 0.0262 1.25%
 QC value greater than the upper limit for Pb 220.353 Recovery = 105.09%
 Sb 206.836† 5054.1 2.034 mg/L 0.0184 2.034 mg/L 0.0184 0.91%
 QC value within limits for Sb 206.836 Recovery = 101.71%
 Se 196.026† 3580.8 2.040 mg/L 0.0234 2.040 mg/L 0.0234 1.15%
 QC value within limits for Se 196.026 Recovery = 101.98%
 Sn 189.927† 13443.7 2.077 mg/L 0.0216 2.077 mg/L 0.0216 1.04%
 QC value within limits for Sn 189.927 Recovery = 103.84%
 Ti 337.279† 68304.2 1.992 mg/L 0.0146 1.992 mg/L 0.0146 0.73%
 QC value within limits for Ti 337.279 Recovery = 99.58%
 Tl 351.924† 1927.7 1.153 mg/L 0.0104 1.153 mg/L 0.0104 0.90%
 QC value greater than the upper limit for Tl 351.924 Recovery = 115.31%
 V 290.880† 144239.2 2.033 mg/L 0.0068 2.033 mg/L 0.0068 0.34%
 QC value within limits for V 290.880 Recovery = 101.66%
 Zn 206.200† 109499.6 2.059 mg/L 0.0146 2.059 mg/L 0.0146 0.71%
 QC value within limits for Zn 206.200 Recovery = 102.95%
 Zr 343.823† 296172.3 2.067 mg/L 0.0055 2.067 mg/L 0.0055 0.26%
 QC value within limits for Zr 343.823 Recovery = 103.34%
 QC Failed. Continue with analysis.
 User canceled analysis.

No 200.7: Ag, Cu, Pb OK 6010; No K, TI NDC
 04/12/2024

Batch ID: AVIO 500

Sequence No.: 2

Sample ID: SEQ-ICB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2024 10:11:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	201465.4	88.5 %	1.16	88.5 %	1.16	1.31%
Y axial	1807017.9	90.7 %	0.35	90.7 %	0.35	0.38%
Ag 328.068†	68.5	0.0021 mg/L	0.00040	0.0021 mg/L	0.00040	19.28%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-23.1	-0.0055 mg/L	0.00142	-0.0055 mg/L	0.00142	25.68%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-0.2	-0.0001 mg/L	0.00291	-0.0001 mg/L	0.00291	>999.9%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	29.0	0.0045 mg/L	0.00208	0.0045 mg/L	0.00208	46.49%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	8.4	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	14.17%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	193.6	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	23.53%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	25.0	0.0019 mg/L	0.00105	0.0019 mg/L	0.00105	56.59%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	14.0	0.0006 mg/L	0.00074	0.0006 mg/L	0.00074	131.51%

QC value within limits for Cd 228.802 Recovery = Not calculated
Co 228.616† -13.8 -0.0006 mg/L 0.00049 -0.0006 mg/L 0.00049 80.10%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 9.4 0.0002 mg/L 0.00030 0.0002 mg/L 0.00030 149.67%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 327.393† 1.6 0.0000 mg/L 0.00093 0.0000 mg/L 0.00093 >999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated
Fe 238.204† 15.0 0.0019 mg/L 0.00110 0.0019 mg/L 0.00110 59.03%
QC value within limits for Fe 238.204 Recovery = Not calculated
K 766.490† -418.3 -0.0746 mg/L 0.01609 -0.0746 mg/L 0.01609 21.57%
QC value within limits for K 766.490 Recovery = Not calculated
Mg 285.213† -4.7 -0.0004 mg/L 0.00036 -0.0004 mg/L 0.00036 100.87%
QC value within limits for Mg 285.213 Recovery = Not calculated
Mn 257.610† -13.8 -0.0003 mg/L 0.00025 -0.0003 mg/L 0.00025 75.55%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 31.4 0.0019 mg/L 0.00032 0.0019 mg/L 0.00032 17.29%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† -528.3 -0.0517 mg/L 0.00362 -0.0517 mg/L 0.00362 7.01%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -31.4 -0.0008 mg/L 0.00045 -0.0008 mg/L 0.00045 53.04%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 18.0 0.0029 mg/L 0.00023 0.0029 mg/L 0.00023 7.79%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 8.6 0.0035 mg/L 0.00159 0.0035 mg/L 0.00159 45.52%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 12.4 0.0071 mg/L 0.00643 0.0071 mg/L 0.00643 90.65%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 11.7 0.0018 mg/L 0.00022 0.0018 mg/L 0.00022 12.37%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† -56.0 -0.0016 mg/L 0.00091 -0.0016 mg/L 0.00091 55.45%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 9.2 0.0054 mg/L 0.02057 0.0054 mg/L 0.02057 382.53%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 104.5 0.0015 mg/L 0.00047 0.0015 mg/L 0.00047 31.66%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 70.0 0.0013 mg/L 0.00014 0.0013 mg/L 0.00014 10.79%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† 145.2 0.0010 mg/L 0.00043 0.0010 mg/L 0.00043 42.09%
All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 3

Sample ID: SEQ-LCV@ 23J0971

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 14

Date Collected: 4/11/2024 10:19:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@ 23J0971

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	200725.8	88.1 %		1.46	88.1 %	1.46	1.66%
Y axial	1771678.4	88.9 %		0.88	88.9 %	0.88	0.99%
Ag 328.068†	347.8	0.0107 mg/L		0.00094	0.0107 mg/L	0.00094	8.76%
QC value within limits for Ag 328.068				107.04%			
Al 396.153†	244.7	0.0540 mg/L		0.00168	0.0540 mg/L	0.00168	3.10%
QC value within limits for Al 396.153				108.05%			
As 188.979†	18.5	0.0114 mg/L		0.00321	0.0114 mg/L	0.00321	28.05%
QC value within limits for As 188.979				114.37%			
B 208.889†	616.7	0.0943 mg/L		0.00177	0.0943 mg/L	0.00177	1.87%
QC value within limits for B 208.889				94.34%			
Ba 233.527†	563.4	0.0494 mg/L		0.00101	0.0494 mg/L	0.00101	2.04%
QC value within limits for Ba 233.527				98.75%			
Be 313.107†	2419.8	0.0041 mg/L		0.00010	0.0041 mg/L	0.00010	2.35%
QC value within limits for Be 313.107				102.23%			
Ca 317.933†	6546.8	0.4865 mg/L		0.01062	0.4865 mg/L	0.01062	2.18%
QC value within limits for Ca 317.933				97.30%			
Cd 228.802†	112.2	0.0042 mg/L		0.00016	0.0042 mg/L	0.00016	3.72%

No K, Ti; SEE Pb RR NDC 04/12/2024

QC value within limits for Cd 228.802 Recovery = 105.32%

Co 228.616† 211.5 0.0094 mg/L 0.00022 0.0094 mg/L 0.00022 2.34%

QC value within limits for Co 228.616 Recovery = 93.87%

Cr 267.716† 499.6 0.0104 mg/L 0.00033 0.0104 mg/L 0.00033 3.15%

QC value within limits for Cr 267.716 Recovery = 104.24%

Cu 327.393† 580.2 0.0106 mg/L 0.00108 0.0106 mg/L 0.00108 10.22%

QC value within limits for Cu 327.393 Recovery = 106.09%

Fe 238.204† 405.9 0.0508 mg/L 0.00347 0.0508 mg/L 0.00347 6.83%

QC value within limits for Fe 238.204 Recovery = 101.53%

K 766.490† 8465.9 1.510 mg/L 0.0128 1.510 mg/L 0.0128 0.85%

QC value less than the lower limit for K 766.490 Recovery = 75.52%

Mg 285.213† 668.0 0.0502 mg/L 0.00169 0.0502 mg/L 0.00169 3.37%

QC value within limits for Mg 285.213 Recovery = 100.32%

Mn 257.610† 410.2 0.0100 mg/L 0.00012 0.0100 mg/L 0.00012 1.24%

QC value within limits for Mn 257.610 Recovery = 99.70%

Mo 202.031† 882.5 0.0525 mg/L 0.00036 0.0525 mg/L 0.00036 0.68%

QC value within limits for Mo 202.031 Recovery = 104.99%

Na 589.592† 20130.6 1.969 mg/L 0.0229 1.969 mg/L 0.0229 1.16%

QC value within limits for Na 589.592 Recovery = 98.43%

Ni 231.604† 352.0 0.0094 mg/L 0.00030 0.0094 mg/L 0.00030 3.20%

QC value within limits for Ni 231.604 Recovery = 94.12%

Pb 220.353† 76.7 0.0126 mg/L 0.00018 0.0126 mg/L 0.00018 1.45%

QC value greater than the upper limit for Pb 220.353 Recovery = 125.51%

Sb 206.836† 116.9 0.0477 mg/L 0.00149 0.0477 mg/L 0.00149 3.12%

QC value within limits for Sb 206.836 Recovery = 95.45%

Se 196.026† 100.7 0.0574 mg/L 0.00302 0.0574 mg/L 0.00302 5.26%

QC value within limits for Se 196.026 Recovery = 114.77%

Sn 189.927† 635.1 0.0980 mg/L 0.00150 0.0980 mg/L 0.00150 1.53%

QC value within limits for Sn 189.927 Recovery = 97.99%

Ti 337.279† 627.0 0.0183 mg/L 0.00065 0.0183 mg/L 0.00065 3.55%

QC value within limits for Ti 337.279 Recovery = 91.45%

Tl 351.924† 103.5 0.0604 mg/L 0.04617 0.0604 mg/L 0.04617 76.44%

QC value greater than the upper limit for Tl 351.924 Recovery = 120.80%

V 290.880† 786.4 0.0111 mg/L 0.00024 0.0111 mg/L 0.00024 2.13%

QC value within limits for V 290.880 Recovery = 110.93%

Zn 206.200† 592.3 0.0109 mg/L 0.00009 0.0109 mg/L 0.00009 0.80%

QC value within limits for Zn 206.200 Recovery = 109.47%

Zr 343.823† 160.8 0.0011 mg/L 0.00045 0.0011 mg/L 0.00045 40.52%

QC Failed. Continue with analysis.

User canceled analysis.

No K, Ti; SEE Pb RR NDC 04/12/2024

Method Loaded

Method Name: ICP4_012224*

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2024 10:10:35 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 7

Sample ID: SEQ-LCV@RR

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 22

Date Collected: 4/11/2024 10:28:08 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	196306.9	86.2 %		0.75	86.2 %	0.75	0.87%
Y axial	1811256.3	90.9 %		0.73	90.9 %	0.73	0.80%
Ag 328.068†	165.5	0.0051 mg/L		0.00058	0.0051 mg/L	0.00058	11.43%
Al 396.153†	28.7	0.0059 mg/L		0.02100	0.0059 mg/L	0.02100	354.39%
As 188.979†	14.2	0.0090 mg/L		0.00351	0.0090 mg/L	0.00351	39.20%
B 208.889†	71.9	0.0107 mg/L		0.00254	0.0107 mg/L	0.00254	23.69%
Ba 233.527†	108.4	0.0095 mg/L		0.00072	0.0095 mg/L	0.00072	7.57%
Be 313.107†	5763.6	0.0098 mg/L		0.00012	0.0098 mg/L	0.00012	1.26%
Ca 317.933†	155.1	0.0115 mg/L		0.00415	0.0115 mg/L	0.00415	36.00%
Cd 228.802†	245.7	0.0096 mg/L		0.00014	0.0096 mg/L	0.00014	1.49%
Co 228.616†	212.4	0.0094 mg/L		0.00034	0.0094 mg/L	0.00034	3.58%
Cr 267.716†	499.4	0.0104 mg/L		0.00028	0.0104 mg/L	0.00028	2.70%
Cu 327.393†	403.1	0.0074 mg/L		0.00091	0.0074 mg/L	0.00091	12.26%
Fe 238.204†	89.8	0.0113 mg/L		0.00040	0.0113 mg/L	0.00040	3.49%
K 766.490†	-436.7	-0.0779 mg/L		0.01289	-0.0779 mg/L	0.01289	16.54%
Mg 285.213†	116.0	0.0087 mg/L		0.00079	0.0087 mg/L	0.00079	9.03%
Mn 257.610†	385.4	0.0094 mg/L		0.00006	0.0094 mg/L	0.00006	0.66%
Mo 202.031†	184.4	0.0110 mg/L		0.00044	0.0110 mg/L	0.00044	4.05%
Na 589.592†	-282.7	-0.0276 mg/L		0.00225	-0.0276 mg/L	0.00225	8.13%
Ni 231.604†	343.1	0.0092 mg/L		0.00020	0.0092 mg/L	0.00020	2.19%
Pb 220.353†	65.9	0.0107 mg/L		0.00211	0.0107 mg/L	0.00211	19.67%
QC value within limits for Pb 220.353 Recovery = 107.16%							
Sb 206.836†	26.2	0.0106 mg/L		0.00368	0.0106 mg/L	0.00368	34.83%
Se 196.026†	22.9	0.0130 mg/L		0.00118	0.0130 mg/L	0.00118	9.03%
Sn 189.927†	70.2	0.0108 mg/L		0.00070	0.0108 mg/L	0.00070	6.50%
Ti 337.279†	278.0	0.0081 mg/L		0.00082	0.0081 mg/L	0.00082	10.16%
Tl 351.924†	36.8	0.0216 mg/L		0.02675	0.0216 mg/L	0.02675	123.98%
V 290.880†	750.8	0.0106 mg/L		0.00067	0.0106 mg/L	0.00067	6.33%
Zn 206.200†	527.8	0.0099 mg/L		0.00022	0.0099 mg/L	0.00022	2.17%
Zr 343.823†	1353.4	0.0094 mg/L		0.00006	0.0094 mg/L	0.00006	0.66%

All analyte(s) passed QC.

User canceled analysis.

Batch ID: AVIO 500

Sequence No.: 4

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2024 10:36:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	192150.5	84.4 %		0.97	84.4 %	0.97	1.15%
Y axial	1736452.6	87.2 %		0.26	87.2 %	0.26	0.30%
Ag 328.068†	83597.8	2.550 mg/L		0.0353	2.550 mg/L	0.0353	1.38%

No TI NDC
04/12/2024

QC value within limits for Ag 328.068 Recovery = 101.99%
 Al 396.153† 43613.8 9.810 mg/L 0.0086 9.810 mg/L 0.0086 0.09%
 QC value within limits for Al 396.153 Recovery = 98.10%
 As 188.979† 8020.9 5.083 mg/L 0.0932 5.083 mg/L 0.0932 1.83%
 QC value within limits for As 188.979 Recovery = 101.66%
 B 208.889† 32418.8 4.825 mg/L 0.0822 4.825 mg/L 0.0822 1.70%
 QC value within limits for B 208.889 Recovery = 96.51%
 Ba 233.527† 55346.2 4.851 mg/L 0.0518 4.851 mg/L 0.0518 1.07%
 QC value within limits for Ba 233.527 Recovery = 97.02%
 Be 313.107† 2982029.6 5.063 mg/L 0.0762 5.063 mg/L 0.0762 1.51%
 QC value within limits for Be 313.107 Recovery = 101.27%
 Ca 317.933† 133741.8 9.939 mg/L 0.0292 9.939 mg/L 0.0292 0.29%
 QC value within limits for Ca 317.933 Recovery = 99.39%
 Cd 228.802† 128170.3 5.012 mg/L 0.0082 5.012 mg/L 0.0082 0.16%
 QC value within limits for Cd 228.802 Recovery = 100.25%
 Co 228.616† 116039.9 5.129 mg/L 0.0208 5.129 mg/L 0.0208 0.41%
 QC value within limits for Co 228.616 Recovery = 102.58%
 Cr 267.716† 247076.8 5.156 mg/L 0.0178 5.156 mg/L 0.0178 0.35%
 QC value within limits for Cr 267.716 Recovery = 103.11%
 Cu 327.393† 280765.6 5.144 mg/L 0.0158 5.144 mg/L 0.0158 0.31%
 QC value within limits for Cu 327.393 Recovery = 102.88%
 Fe 238.204† 39410.0 4.980 mg/L 0.0036 4.980 mg/L 0.0036 0.07%
 QC value within limits for Fe 238.204 Recovery = 99.60%
 K 766.490† 53388.4 9.525 mg/L 0.0074 9.525 mg/L 0.0074 0.08%
 QC value within limits for K 766.490 Recovery = 95.25%
 Mg 285.213† 132654.1 9.965 mg/L 0.0318 9.965 mg/L 0.0318 0.32%
 QC value within limits for Mg 285.213 Recovery = 99.65%
 Mn 257.610† 208890.0 5.076 mg/L 0.0138 5.076 mg/L 0.0138 0.27%
 QC value within limits for Mn 257.610 Recovery = 101.52%
 Mo 202.031† 85839.1 5.106 mg/L 0.0104 5.106 mg/L 0.0104 0.20%
 QC value within limits for Mo 202.031 Recovery = 102.12%
 Na 589.592† 102214.2 9.996 mg/L 0.0352 9.996 mg/L 0.0352 0.35%
 QC value within limits for Na 589.592 Recovery = 99.96%
 Ni 231.604† 192120.0 5.143 mg/L 0.0120 5.143 mg/L 0.0120 0.23%
 QC value within limits for Ni 231.604 Recovery = 102.85%
 Pb 220.353† 31523.9 5.126 mg/L 0.0649 5.126 mg/L 0.0649 1.27%
 QC value within limits for Pb 220.353 Recovery = 102.51%
 Sb 206.836† 12701.8 5.114 mg/L 0.0616 5.114 mg/L 0.0616 1.20%
 QC value within limits for Sb 206.836 Recovery = 102.28%
 Se 196.026† 8983.0 5.116 mg/L 0.0927 5.116 mg/L 0.0927 1.81%
 QC value within limits for Se 196.026 Recovery = 102.33%
 Sn 189.927† 33656.4 5.199 mg/L 0.0714 5.199 mg/L 0.0714 1.37%
 QC value within limits for Sn 189.927 Recovery = 103.99%
 Ti 337.279† 172822.1 5.039 mg/L 0.0184 5.039 mg/L 0.0184 0.36%
 QC value within limits for Ti 337.279 Recovery = 100.78%
 Tl 351.924† 4727.2 2.830 mg/L 0.0677 2.830 mg/L 0.0677 2.39%
 QC value greater than the upper limit for Tl 351.924 Recovery = 113.21%
 V 290.880† 364228.3 5.135 mg/L 0.0152 5.135 mg/L 0.0152 0.30%
 QC value within limits for V 290.880 Recovery = 102.70%
 Zn 206.200† 274912.5 5.168 mg/L 0.0177 5.168 mg/L 0.0177 0.34%
 QC value within limits for Zn 206.200 Recovery = 103.37%
 Zr 343.823† 752960.3 5.255 mg/L 0.0147 5.255 mg/L 0.0147 0.28%
 QC value within limits for Zr 343.823 Recovery = 105.09%
 QC Failed. Continue with analysis.

No TI NDC
 04/12/2024

Batch ID: AVIO 500

Sequence No.: 5

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 11

Date Collected: 4/11/2024 10:44:03 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	180440.0	79.2 %	1.92	79.2 %	1.92	2.43%
Y axial	1608533.6	80.7 %	0.92	80.7 %	0.92	1.14%

Ag	328.068†	-502.5	-0.0052 mg/L	0.00009	-0.0052 mg/L	0.00009	1.66%
	QC value within limits for Ag 328.068 Recovery = Not calculated						
Al	396.153†	1096699.5	256.0 mg/L	0.76	256.0 mg/L	0.76	0.30%
	QC value within limits for Al 396.153 Recovery = 102.39%						
As	188.979†	-3.6	0.0094 mg/L	0.00941	0.0094 mg/L	0.00941	99.70%
	QC value within limits for As 188.979 Recovery = Not calculated						
B	208.889†	10.0	-0.0005 mg/L	0.00080	-0.0005 mg/L	0.00080	156.21%
	QC value within limits for B 208.889 Recovery = Not calculated						
Ba	233.527†	98.4	0.0086 mg/L	0.00058	0.0086 mg/L	0.00058	6.70%
	QC value within limits for Ba 233.527 Recovery = Not calculated						
Be	313.107†	379.1	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.89%
	QC value within limits for Be 313.107 Recovery = Not calculated						
Ca	317.933†	3333980.4	247.8 mg/L	0.95	247.8 mg/L	0.95	0.38%
	QC value within limits for Ca 317.933 Recovery = 99.10%						
Cd	228.802†	4.1	0.0002 mg/L	0.00060	0.0002 mg/L	0.00060	264.96%
	QC value within limits for Cd 228.802 Recovery = Not calculated						
Co	228.616†	-48.5	-0.0021 mg/L	0.00068	-0.0021 mg/L	0.00068	32.18%
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cr	267.716†	295.2	0.0087 mg/L	0.00054	0.0087 mg/L	0.00054	6.25%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	327.393†	-432.1	-0.0034 mg/L	0.00058	-0.0034 mg/L	0.00058	17.35%
	QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe	238.204†	786775.7	98.18 mg/L	0.315	98.18 mg/L	0.315	0.32%
	QC value within limits for Fe 238.204 Recovery = 98.18%						
K	766.490†	-315.8	-0.0563 mg/L	0.01593	-0.0563 mg/L	0.01593	28.26%
	QC value within limits for K 766.490 Recovery = Not calculated						
Mg	285.213†	3127380.8	235.3 mg/L	0.34	235.3 mg/L	0.34	0.15%
	QC value within limits for Mg 285.213 Recovery = 94.12%						
Mn	257.610†	-273.4	-0.0040 mg/L	0.00036	-0.0040 mg/L	0.00036	8.89%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	616.6	0.0367 mg/L	0.00080	0.0367 mg/L	0.00080	2.17%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592†	277.9	0.0272 mg/L	0.01067	0.0272 mg/L	0.01067	39.28%
	QC value within limits for Na 589.592 Recovery = Not calculated						
Ni	231.604†	-313.4	-0.0034 mg/L	0.00096	-0.0034 mg/L	0.00096	28.02%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb	220.353†	-94.5	0.0076 mg/L	0.00183	0.0076 mg/L	0.00183	24.10%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	14.3	0.0063 mg/L	0.00395	0.0063 mg/L	0.00395	62.96%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-56.9	0.0311 mg/L	0.00546	0.0311 mg/L	0.00546	17.57%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	-44.1	-0.0068 mg/L	0.00165	-0.0068 mg/L	0.00165	24.15%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti	337.279†	-93.7	-0.0027 mg/L	0.00033	-0.0027 mg/L	0.00033	12.13%
	QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl	351.924†	-51.0	-0.0107 mg/L	0.01241	-0.0107 mg/L	0.01241	116.14%
	QC value within limits for Tl 351.924 Recovery = Not calculated						
V	290.880†	-1470.8	-0.0030 mg/L	0.00116	-0.0030 mg/L	0.00116	38.96%
	QC value within limits for V 290.880 Recovery = Not calculated						
Zn	206.200†	116.8	0.0022 mg/L	0.00029	0.0022 mg/L	0.00029	12.98%
	QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr	343.823†	649.6	0.0003 mg/L	0.00031	0.0003 mg/L	0.00031	93.94%
All analyte(s) passed QC.							

Batch ID: AVIO 500

Sequence No.: 6

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 12

Date Collected: 4/11/2024 10:51:04 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	191154.8	83.9 %	0.96	83.9 %	0.96	1.14%
Y axial	1620361.8	81.3 %	0.32	81.3 %	0.32	0.39%

Ag	328.068†	13601.0	0.4311 mg/L	0.00210	0.4311 mg/L	0.00210	0.49%
	QC value within limits for Ag	328.068	Recovery = 107.77%				
Al	396.153†	1061739.2	247.8 mg/L	0.25	247.8 mg/L	0.25	0.10%
	QC value within limits for Al	396.153	Recovery = 99.12%				
As	188.979†	306.7	0.2055 mg/L	0.00255	0.2055 mg/L	0.00255	1.24%
	QC value within limits for As	188.979	Recovery = 102.75%				
B	208.889†	22.3	0.0014 mg/L	0.00123	0.0014 mg/L	0.00123	87.22%
	QC value within limits for B	208.889	Recovery = Not calculated				
Ba	233.527†	11594.0	1.016 mg/L	0.0088	1.016 mg/L	0.0088	0.86%
	QC value within limits for Ba	233.527	Recovery = 101.62%				
Be	313.107†	603003.7	1.024 mg/L	0.0014	1.024 mg/L	0.0014	0.14%
	QC value within limits for Be	313.107	Recovery = 102.39%				
Ca	317.933†	3260641.4	242.3 mg/L	0.21	242.3 mg/L	0.21	0.09%
	QC value within limits for Ca	317.933	Recovery = 96.92%				
Cd	228.802†	50265.1	2.012 mg/L	0.0127	2.012 mg/L	0.0127	0.63%
	QC value within limits for Cd	228.802	Recovery = 100.60%				
Co	228.616†	20215.4	0.8947 mg/L	0.00433	0.8947 mg/L	0.00433	0.48%
	QC value within limits for Co	228.616	Recovery = 89.47%				
Cr	267.716†	47755.1	0.9987 mg/L	0.00598	0.9987 mg/L	0.00598	0.60%
	QC value within limits for Cr	267.716	Recovery = 99.87%				
Cu	327.393†	51895.8	0.9496 mg/L	0.00403	0.9496 mg/L	0.00403	0.42%
	QC value within limits for Cu	327.393	Recovery = 94.96%				
Fe	238.204†	784350.0	97.88 mg/L	0.067	97.88 mg/L	0.067	0.07%
	QC value within limits for Fe	238.204	Recovery = 97.88%				
K	766.490†	-290.6	-0.0518 mg/L	0.02498	-0.0518 mg/L	0.02498	48.19%
	QC value within limits for K	766.490	Recovery = Not calculated				
Mg	285.213†	3116635.9	234.5 mg/L	0.40	234.5 mg/L	0.40	0.17%
	QC value within limits for Mg	285.213	Recovery = 93.79%				
Mn	257.610†	39885.9	0.9719 mg/L	0.00938	0.9719 mg/L	0.00938	0.97%
	QC value within limits for Mn	257.610	Recovery = 97.19%				
Mo	202.031†	621.5	0.0370 mg/L	0.00051	0.0370 mg/L	0.00051	1.38%
	QC value within limits for Mo	202.031	Recovery = Not calculated				
Na	589.592†	310.9	0.0304 mg/L	0.02165	0.0304 mg/L	0.02165	71.22%
	QC value within limits for Na	589.592	Recovery = Not calculated				
Ni	231.604†	67498.0	1.813 mg/L	0.0098	1.813 mg/L	0.0098	0.54%
	QC value within limits for Ni	231.604	Recovery = 90.63%				
Pb	220.353†	489.7	0.1006 mg/L	0.00197	0.1006 mg/L	0.00197	1.96%
	QC value within limits for Pb	220.353	Recovery = 100.58%				
Sb	206.836†	2710.4	1.073 mg/L	0.0022	1.073 mg/L	0.0022	0.20%
	QC value within limits for Sb	206.836	Recovery = 89.43%				
Se	196.026†	846.2	0.5446 mg/L	0.00038	0.5446 mg/L	0.00038	0.07%
	QC value within limits for Se	196.026	Recovery = 108.92%				
Sn	189.927†	-49.9	-0.0077 mg/L	0.00044	-0.0077 mg/L	0.00044	5.69%
	QC value within limits for Sn	189.927	Recovery = Not calculated				
Ti	337.279†	-8.1	-0.0002 mg/L	0.00151	-0.0002 mg/L	0.00151	636.56%
	QC value within limits for Ti	337.279	Recovery = Not calculated				
Tl	351.924†	353.0	0.2238 mg/L	0.00556	0.2238 mg/L	0.00556	2.48%
	QC value within limits for Tl	351.924	Recovery = 111.92%				
V	290.880†	70022.1	1.005 mg/L	0.0023	1.005 mg/L	0.0023	0.22%
	QC value within limits for V	290.880	Recovery = 100.46%				
Zn	206.200†	100496.1	1.885 mg/L	0.0124	1.885 mg/L	0.0124	0.66%
	QC value within limits for Zn	206.200	Recovery = 94.27%				
Zr	343.823†	706.2	0.0007 mg/L	0.00046	0.0007 mg/L	0.00046	62.00%
All analyte(s) passed QC.							

Batch ID: AVIO 500

Sequence No.: 7

Sample ID: SEQ-LCV@RR

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 22

Date Collected: 4/11/2024 10:58:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	197991.5	86.9 %	6.19	86.9 %	6.19	7.12%
Y axial	2075782.0	104 %	1.49	104 %	1.49	1.43%

EMPTY CUP NDC
04/12/2024

Saturated within auto integration window (code 4)

Ag 328.068†	-0.8	-0.0001 mg/L	0.00104	-0.0001 mg/L	0.00104	>999.9%
Al 396.153†	52.8	0.0123 mg/L	0.01169	0.0123 mg/L	0.01169	95.28%
As 188.979†	2.5	0.0016 mg/L	0.00116	0.0016 mg/L	0.00116	72.38%
B 208.889†	-20.2	-0.0032 mg/L	0.00025	-0.0032 mg/L	0.00025	7.59%
Ba 233.527†	64.8	0.0057 mg/L	0.00458	0.0057 mg/L	0.00458	80.63%
Be 313.107†	3098.5	0.0053 mg/L	0.00618	0.0053 mg/L	0.00618	116.64%
Ca 317.933†	267.5	0.0199 mg/L	0.01720	0.0199 mg/L	0.01720	86.53%
Cd 228.802†	-17.4	-0.0007 mg/L	0.00008	-0.0007 mg/L	0.00008	10.18%
Co 228.616†	-6.0	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	63.52%
Cr 267.716†	1.8	0.0000 mg/L	0.00039	0.0000 mg/L	0.00039	>999.9%
Cu 327.393†	-27.0	-0.0005 mg/L	0.00096	-0.0005 mg/L	0.00096	196.36%
Fe 238.204†	64.5	0.0080 mg/L	0.00923	0.0080 mg/L	0.00923	114.68%
K 766.490†	-231.8	-0.0414 mg/L	0.04289	-0.0414 mg/L	0.04289	103.69%
Mg 285.213†	186.4	0.0140 mg/L	0.01051	0.0140 mg/L	0.01051	75.03%
Mn 257.610†	245.4	0.0060 mg/L	0.00470	0.0060 mg/L	0.00470	78.79%
Mo 202.031†	15.7	0.0009 mg/L	0.00057	0.0009 mg/L	0.00057	60.99%
Na 589.592†	-427.4	-0.0418 mg/L	0.01188	-0.0418 mg/L	0.01188	28.43%
Ni 231.604†	-10.3	-0.0003 mg/L	0.00040	-0.0003 mg/L	0.00040	144.26%
Pb 220.353†	-5.3	-0.0009 mg/L	0.00096	-0.0009 mg/L	0.00096	112.39%
QC value less than the lower limit for Pb 220.353			Recovery = -8.50%			
Sb 206.836†	-7.7	-0.0031 mg/L	0.00154	-0.0031 mg/L	0.00154	50.29%
Se 196.026†	1.1	0.0006 mg/L	0.00393	0.0006 mg/L	0.00393	628.42%
Sn 189.927†	-3.0	-0.0005 mg/L	0.00039	-0.0005 mg/L	0.00039	85.75%
Ti 337.279†	212.7	0.0062 mg/L	0.00453	0.0062 mg/L	0.00453	73.00%
Tl 351.924†	-12.2	-0.0071 mg/L	0.00980	-0.0071 mg/L	0.00980	137.24%
V 290.880†	-366.9	-0.0052 mg/L	0.00023	-0.0052 mg/L	0.00023	4.37%
Zn 206.200†	-95.8	-0.0018 mg/L	0.00003	-0.0018 mg/L	0.00003	1.59%
Zr 343.823†	50.7	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	33.36%

QC Failed. Continue with analysis.

EMPTY CUP NDC

04/12/2024

Batch ID: AVIO 500

Sequence No.: 8

Sample ID: SEQ-HCV1@100

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

User canceled analysis.

Autosampler Location: 15

Date Collected: 4/11/2024 11:04:59 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 8

Sample ID: SEQ-HCV1@100

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 15

Date Collected: 4/11/2024 11:06:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	203010.5	89.1 %	0.80	89.1 %	0.80	0.89%
Y axial	1705018.7	85.6 %	1.28	85.6 %	1.28	1.49%
Ag 328.068†	-11.3	0.5245 mg/L	0.00078	0.5245 mg/L	0.00078	0.15%
Al 396.153†	437530.4	102.2 mg/L	0.96	102.2 mg/L	0.96	0.93%
QC value within limits for Al 396.153 Recovery = 102.23%						
As 188.979†	157192.5	100.2 mg/L	2.45	100.2 mg/L	2.45	2.44%
QC value within limits for As 188.979 Recovery = 100.24%						
B 208.889†	-110.6	-0.0161 mg/L	0.00157	-0.0161 mg/L	0.00157	9.73%
Ba 233.527†	1219911.6	106.9 mg/L	1.42	106.9 mg/L	1.42	1.33%
QC value within limits for Ba 233.527 Recovery = 106.92%						
Be 313.107†	57285776.3	97.24 mg/L	1.253	97.24 mg/L	1.253	1.29%
Ca 317.933†	1815.1	0.1349 mg/L	0.00322	0.1349 mg/L	0.00322	2.39%
Cd 228.802†	2387375.6	93.25 mg/L	0.566	93.25 mg/L	0.566	0.61%
QC value within limits for Cd 228.802 Recovery = 93.25%						
Co 228.616†	2269997.9	100.5 mg/L	0.19	100.5 mg/L	0.19	0.19%
QC value within limits for Co 228.616 Recovery = 100.53%						

No TI NDC 04/12/2024

Cr 267.716†	4859494.5	101.4 mg/L	0.13	101.4 mg/L	0.13	0.13%
QC value within limits for Cr 267.716 Recovery = 101.38%						
Cu 327.393†	5790010.2	105.5 mg/L	0.23	105.5 mg/L	0.23	0.22%
QC value within limits for Cu 327.393 Recovery = 105.45%						
Fe 238.204†	807432.3	102.0 mg/L	1.04	102.0 mg/L	1.04	1.02%
QC value within limits for Fe 238.204 Recovery = 101.97%						
K 766.490†	-424.7	-0.0758 mg/L	0.03105	-0.0758 mg/L	0.03105	40.98%
Mg 285.213†	-2621.5	-0.0137 mg/L	0.00323	-0.0137 mg/L	0.00323	23.55%
Mn 257.610†	4183121.2	101.7 mg/L	1.09	101.7 mg/L	1.09	1.08%
QC value within limits for Mn 257.610 Recovery = 101.65%						
Mo 202.031†	-404.3	-0.0240 mg/L	0.00076	-0.0240 mg/L	0.00076	3.16%
Na 589.592†	-410.0	-0.0401 mg/L	0.00953	-0.0401 mg/L	0.00953	23.77%
Ni 231.604†	3814181.4	102.0 mg/L	0.20	102.0 mg/L	0.20	0.20%
QC value within limits for Ni 231.604 Recovery = 102.02%						
Pb 220.353†	634907.0	102.9 mg/L	0.39	102.9 mg/L	0.39	0.38%
QC value within limits for Pb 220.353 Recovery = 102.90%						
Sb 206.836†	4808.3	0.2844 mg/L	0.05427	0.2844 mg/L	0.05427	19.08%
Se 196.026†	186307.4	106.1 mg/L	2.54	106.1 mg/L	2.54	2.39%
QC value within limits for Se 196.026 Recovery = 106.12%						
Sn 189.927†	-46.5	-0.0072 mg/L	0.00139	-0.0072 mg/L	0.00139	19.34%
Ti 337.279†	-127.7	-0.0037 mg/L	0.00386	-0.0037 mg/L	0.00386	103.62%
Tl 351.924†	212650.0	124.0 mg/L	2.22	124.0 mg/L	2.22	1.79%
QC value greater than the upper limit for Tl 351.924 Recovery = 124.00%						
V 290.880†	7350531.8	103.6 mg/L	0.14	103.6 mg/L	0.14	0.14%
QC value within limits for V 290.880 Recovery = 103.59%						
Zn 206.200†	5329130.8	100.2 mg/L	0.73	100.2 mg/L	0.73	0.73%
QC value within limits for Zn 206.200 Recovery = 100.23%						
Zr 343.823†	-260.7	-0.0061 mg/L	0.00045	-0.0061 mg/L	0.00045	7.41%
QC Failed. Continue with analysis.						

No TI NDC 04/12/2024

Batch ID: AVIO 500

Sequence No.: 9

Sample ID: SEQ-HCV2@500/100

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 16

Date Collected: 4/11/2024 11:15:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	170637.3	74.9 %	1.28	74.9 %	1.28	1.70%
Y axial	1489838.9	74.8 %	0.93	74.8 %	0.93	1.24%
Ag 328.068†	-4.9	0.0257 mg/L	0.00096	0.0257 mg/L	0.00096	3.72%
Al 396.153†	2235952.0	521.9 mg/L	1.42	521.9 mg/L	1.42	0.27%
QC value within limits for Al 396.153 Recovery = 104.37%						
As 188.979†	-11.4	0.0152 mg/L	0.00631	0.0152 mg/L	0.00631	41.45%
B 208.889†	613404.4	96.81 mg/L	0.039	96.81 mg/L	0.039	0.04%
Ba 233.527†	299.8	0.0263 mg/L	0.00114	0.0263 mg/L	0.00114	4.34%
Be 313.107†	2168.4	0.0037 mg/L	0.00019	0.0037 mg/L	0.00019	5.06%
Ca 317.933†	6667419.0	495.5 mg/L	6.65	495.5 mg/L	6.65	1.34%
QC value within limits for Ca 317.933 Recovery = 99.10%						
Cd 228.802†	112.9	0.0048 mg/L	0.00050	0.0048 mg/L	0.00050	10.58%
Co 228.616†	78.4	0.0035 mg/L	0.00034	0.0035 mg/L	0.00034	9.48%
Cr 267.716†	69.8	0.0136 mg/L	0.00047	0.0136 mg/L	0.00047	3.48%
Cu 327.393†	1091.2	0.0289 mg/L	0.00178	0.0289 mg/L	0.00178	6.15%
Fe 238.204†	3814061.4	475.9 mg/L	3.20	475.9 mg/L	3.20	0.67%
QC value within limits for Fe 238.204 Recovery = 95.19%						
K 766.490†	1186706.6	211.7 mg/L	1.80	211.7 mg/L	1.80	0.85%
QC value within limits for K 766.490 Recovery = 105.86%						
Mg 285.213†	2583267.5	194.6 mg/L	0.89	194.6 mg/L	0.89	0.46%
QC value within limits for Mg 285.213 Recovery = 97.28%						
Mn 257.610†	-1111.9	-0.0142 mg/L	0.00026	-0.0142 mg/L	0.00026	1.85%
Mo 202.031†	641.2	0.0381 mg/L	0.00254	0.0381 mg/L	0.00254	6.67%
Na 589.592†	5015507.9	490.5 mg/L	5.33	490.5 mg/L	5.33	1.09%
QC value within limits for Na 589.592 Recovery = 98.10%						
Ni 231.604†	-1061.3	-0.0043 mg/L	0.00183	-0.0043 mg/L	0.00183	42.76%
Pb 220.353†	202.5	0.0713 mg/L	0.00225	0.0713 mg/L	0.00225	3.15%

Sb 206.836†	-2.3	-0.0003 mg/L	0.00317	-0.0003 mg/L	0.00317 >999.9%
Se 196.026†	-277.6	0.1495 mg/L	0.02295	0.1495 mg/L	0.02295 15.35%
Sn 189.927†	-43.2	-0.0067 mg/L	0.00162	-0.0067 mg/L	0.00162 24.29%
Ti 337.279†	-107.7	-0.0032 mg/L	0.00065	-0.0032 mg/L	0.00065 20.50%
Tl 351.924†	-209.4	-0.0301 mg/L	0.00702	-0.0301 mg/L	0.00702 23.33%
V 290.880†	586.2	-0.0025 mg/L	0.00124	-0.0025 mg/L	0.00124 50.66%
Zn 206.200†	1162.1	-0.0234 mg/L	0.00130	-0.0234 mg/L	0.00130 5.55%
Zr 343.823†	2633.7	-0.0020 mg/L	0.00078	-0.0020 mg/L	0.00078 39.43%

All analyte(s) passed QC.

User canceled analysis.

S103057

Instrument: ICP4

Calibration ID: 2400423

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103057-IFA1	QC		1		24C0959	24D0241	
S103057-IFB1	QC		2		24D0240	24D0241	
B370650-BLK1	QC		3			24D0241	
B370650-BS1	QC		4			24D0241	
B370650-BSD1	QC		5			24D0241	
B370650-MS1	QC		6			24D0241	
B370650-MSD1	QC		7			24D0241	
B370650-PS1	QC		8			24D0241	
B370650-SRL1	QC		9			24D0241	
24D0729-08	Cadmium 6010 Total	A	10			24D0241	CAT B - Report to MDL
24D0729-08	Chromium 6010 Total	A	11			24D0241	CAT B - Report to MDL
24D0729-09	Cadmium 6010 Total	A	12			24D0241	CAT B - Report to MDL
24D0729-09	Chromium 6010 Total	A	13			24D0241	CAT B - Report to MDL
24D0729-10	Cadmium 6010 Total	A	14			24D0241	CAT B - Report to MDL
24D0729-10	Chromium 6010 Total	A	15			24D0241	CAT B - Report to MDL
S103057-CCV1	QC		16		24D0029	24D0241	
S103057-CCB1	QC		17		23J0970	24D0241	
24D0729-11	Cadmium 6010 Total	A	18			24D0241	CAT B - Report to MDL
24D0729-11	Chromium 6010 Total	A	19			24D0241	CAT B - Report to MDL
24D0729-12	Cadmium 6010 Total	A	20			24D0241	CAT B - Report to MDL
24D0729-12	Chromium 6010 Total	A	21			24D0241	CAT B - Report to MDL
24D0729-13	Cadmium 6010 Total	A	22			24D0241	CAT B - Report to MDL
24D0729-13	Chromium 6010 Total	A	23			24D0241	CAT B - Report to MDL
24D0729-14	Cadmium 6010 Total	A	24			24D0241	CAT B - Report to MDL
24D0729-14	Chromium 6010 Total	A	25			24D0241	CAT B - Report to MDL
24D0729-15	Cadmium 6010 Total	A	26			24D0241	CAT B - Report to MDL
24D0729-15	Chromium 6010 Total	A	27			24D0241	CAT B - Report to MDL
24D0729-16	Cadmium 6010 Total	A	28			24D0241	CAT B - Report to MDL
24D0729-16	Chromium 6010 Total	A	29			24D0241	CAT B - Report to MDL
24D0729-17	Cadmium 6010 Total	A	30			24D0241	CAT B - Report to MDL
24D0729-17	Chromium 6010 Total	A	31			24D0241	CAT B - Report to MDL
24D0729-18	Cadmium 6010 Total	A	32			24D0241	CAT B - Report to MDL
24D0729-18	Chromium 6010 Total	A	33			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103057

Instrument: ICP4

Calibration ID: 2400423

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0729-19	Cadmium 6010 Total	A	34			24D0241	CAT B - Report to MDL
24D0729-19	Chromium 6010 Total	A	35			24D0241	CAT B - Report to MDL
24D0729-20	Cadmium 6010 Total	A	36			24D0241	CAT B - Report to MDL
24D0729-20	Chromium 6010 Total	A	37			24D0241	CAT B - Report to MDL
S103057-CCV2	QC		38		24D0029	24D0241	
S103057-CCB2	QC		39		23J0970	24D0241	
24D0735-01	Chromium 6010 Total	A	40			24D0241	CAT B - Report to MDL
24D0735-01	Cadmium 6010 Total	A	41			24D0241	CAT B - Report to MDL
24D0735-02	Chromium 6010 Total	A	42			24D0241	CAT B - Report to MDL
24D0735-02	Cadmium 6010 Total	A	43			24D0241	CAT B - Report to MDL
S103057-IFA2	QC		44		24C0959	24D0241	
S103057-IFB2	QC		45		24D0240	24D0241	
S103057-CCV3	QC		46		24D0029	24D0241	
S103057-CCB3	QC		47		23J0970	24D0241	

Samples Loaded By

Date

Data Processed By

Date

=====
Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 12:28:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 12:30:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 7

Date Collected: 4/11/2024 12:43:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Mean Data: RINSE								
Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y radial	208630.1	91.6	%	0.11	91.6	%	0.11	0.12%
Y axial	1889829.3	94.9	%	1.20	94.9	%	1.20	1.27%
Ag 328.068†	10.6	0.0003	mg/L	0.00083	0.0003	mg/L	0.00083	248.14%
Al 396.153†	2.0	0.0004	mg/L	0.00619	0.0004	mg/L	0.00619	>999.9%
As 188.979†	8.2	0.0052	mg/L	0.00369	0.0052	mg/L	0.00369	70.68%
B 208.889†	21.9	0.0034	mg/L	0.00062	0.0034	mg/L	0.00062	18.11%
Ba 233.527†	-0.2	-0.0000	mg/L	0.00046	-0.0000	mg/L	0.00046	>999.9%
Be 313.107†	-111.4	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	23.73%
Ca 317.933†	95.9	0.0071	mg/L	0.00123	0.0071	mg/L	0.00123	17.24%
Cd 228.802†	-6.3	-0.0004	mg/L	0.00040	-0.0004	mg/L	0.00040	99.52%
Co 228.616†	-19.0	-0.0008	mg/L	0.00025	-0.0008	mg/L	0.00025	29.69%
Cr 267.716†	29.3	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	15.39%
Cu 327.393†	-139.1	-0.0025	mg/L	0.00212	-0.0025	mg/L	0.00212	83.68%
Fe 238.204†	98.9	0.0123	mg/L	0.00187	0.0123	mg/L	0.00187	15.16%
K 766.490†	-427.5	-0.0763	mg/L	0.00926	-0.0763	mg/L	0.00926	12.14%
Mg 285.213†	21.0	0.0016	mg/L	0.00066	0.0016	mg/L	0.00066	41.48%
Mn 257.610†	-5.2	-0.0001	mg/L	0.00024	-0.0001	mg/L	0.00024	189.28%
Mo 202.031†	16.3	0.0010	mg/L	0.00042	0.0010	mg/L	0.00042	42.90%
Na 589.592†	-183.7	-0.0180	mg/L	0.00716	-0.0180	mg/L	0.00716	39.85%
Ni 231.604†	-36.5	-0.0010	mg/L	0.00027	-0.0010	mg/L	0.00027	27.74%
Pb 220.353†	0.2	0.0000	mg/L	0.00175	0.0000	mg/L	0.00175	>999.9%
Sb 206.836†	1.5	0.0006	mg/L	0.00177	0.0006	mg/L	0.00177	297.49%
Se 196.026†	9.8	0.0056	mg/L	0.00184	0.0056	mg/L	0.00184	32.81%
Sn 189.927†	0.8	0.0001	mg/L	0.00091	0.0001	mg/L	0.00091	728.37%
Ti 337.279†	12.2	0.0004	mg/L	0.00050	0.0004	mg/L	0.00050	140.64%
Tl 351.924†	-35.5	-0.0207	mg/L	0.00742	-0.0207	mg/L	0.00742	35.87%
V 290.880†	168.1	0.0024	mg/L	0.00163	0.0024	mg/L	0.00163	68.91%
Zn 206.200†	33.3	0.0006	mg/L	0.00011	0.0006	mg/L	0.00011	18.07%
Zr 343.823†	107.9	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	34.83%

Batch ID: AVIO 500

Sequence No.: 13

Sample ID: B370650-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 23

Date Collected: 4/11/2024 12:51:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-BLK1

Mean Data: 2376550 DATA								
	Mean Corrected		Calib.		Sample			
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	201081.2	88.3	%	0.34	88.3	%	0.34	0.39%
Y axial	1912672.0	96.0	%	0.34	96.0	%	0.34	0.35%
Ag 328.068†	-3.9	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	17.98%

Al 396.153†	-21.3	-0.0051 mg/L	0.00659	-0.0051 mg/L	0.00659	129.24%
As 188.979†	8.4	0.0053 mg/L	0.00165	0.0053 mg/L	0.00165	31.06%
B 208.889†	57.9	0.0090 mg/L	0.00106	0.0090 mg/L	0.00106	11.71%
Ba 233.527†	12.3	0.0011 mg/L	0.00021	0.0011 mg/L	0.00021	19.10%
Be 313.107†	-252.0	-0.0004 mg/L	0.00002	-0.0004 mg/L	0.00002	3.77%
Ca 317.933†	571.3	0.0425 mg/L	0.00152	0.0425 mg/L	0.00152	3.59%
Cd 228.802†	12.3	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	62.27%
Co 228.616†	-16.7	-0.0007 mg/L	0.00014	-0.0007 mg/L	0.00014	19.06%
Cr 267.716†	53.8	0.0011 mg/L	0.00014	0.0011 mg/L	0.00014	12.05%
Cu 327.393†	1423.9	0.0259 mg/L	0.00435	0.0259 mg/L	0.00435	16.76%
Fe 238.204†	144.6	0.0180 mg/L	0.00031	0.0180 mg/L	0.00031	1.71%
K 766.490†	-175.3	-0.0313 mg/L	0.02127	-0.0313 mg/L	0.02127	68.02%
Mg 285.213†	38.4	0.0029 mg/L	0.00049	0.0029 mg/L	0.00049	17.09%
Mn 257.610†	52.8	0.0013 mg/L	0.00041	0.0013 mg/L	0.00041	32.18%
Mo 202.031†	32.5	0.0019 mg/L	0.00117	0.0019 mg/L	0.00117	60.64%
Na 589.592†	448.6	0.0439 mg/L	0.01499	0.0439 mg/L	0.01499	34.18%
Ni 231.604†	6.1	0.0002 mg/L	0.00024	0.0002 mg/L	0.00024	141.89%
Pb 220.353†	27.1	0.0044 mg/L	0.00133	0.0044 mg/L	0.00133	30.38%
Sb 206.836†	16.6	0.0067 mg/L	0.00201	0.0067 mg/L	0.00201	30.13%
Se 196.026†	18.1	0.0103 mg/L	0.00219	0.0103 mg/L	0.00219	21.24%
Sn 189.927†	243.8	0.0376 mg/L	0.00114	0.0376 mg/L	0.00114	3.03%
Ti 337.279†	6.1	0.0002 mg/L	0.00020	0.0002 mg/L	0.00020	110.58%
Tl 351.924†	-13.7	-0.0080 mg/L	0.00664	-0.0080 mg/L	0.00664	83.34%
V 290.880†	117.1	0.0016 mg/L	0.00024	0.0016 mg/L	0.00024	14.54%
Zn 206.200†	839.1	0.0157 mg/L	0.00049	0.0157 mg/L	0.00049	3.09%
Zr 343.823†	117.4	0.0008 mg/L	0.00022	0.0008 mg/L	0.00022	26.34%

Batch ID: AVIO 500

Sequence No.: 14

Sample ID: B370650-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 24

Date Collected: 4/11/2024 1:01:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	197794.5	86.9 %	0.62	86.9 %	0.62	0.71%
Y axial	1785867.4	89.6 %	0.42	89.6 %	0.42	0.46%
Ag 328.068†	32872.6	1.014 mg/L	0.0095	1.014 mg/L	0.0095	0.94%
Al 396.153†	281524.0	65.61 mg/L	0.364	65.61 mg/L	0.364	0.55%
As 188.979†	5726.0	3.653 mg/L	0.0308	3.653 mg/L	0.0308	0.84%
B 208.889†	16576.4	2.519 mg/L	0.0186	2.519 mg/L	0.0186	0.74%
Ba 233.527†	39248.4	3.440 mg/L	0.0551	3.440 mg/L	0.0551	1.60%
Be 313.107†	1199057.0	2.038 mg/L	0.0311	2.038 mg/L	0.0311	1.53%
Ca 317.933†	820483.5	60.97 mg/L	0.410	60.97 mg/L	0.410	0.67%
Cd 228.802†	63496.5	2.446 mg/L	0.0147	2.446 mg/L	0.0147	0.60%
Co 228.616†	22027.0	0.9692 mg/L	0.00938	0.9692 mg/L	0.00938	0.97%
Cr 267.716†	106581.9	2.223 mg/L	0.0148	2.223 mg/L	0.0148	0.66%
Cu 327.393†	137675.5	2.512 mg/L	0.0202	2.512 mg/L	0.0202	0.81%
Fe 238.204†	553128.9	69.03 mg/L	0.504	69.03 mg/L	0.504	0.73%
K 766.490†	73667.7	13.14 mg/L	0.047	13.14 mg/L	0.047	0.36%
Mg 285.213†	250975.5	18.91 mg/L	0.114	18.91 mg/L	0.114	0.60%
Mn 257.610†	259843.1	6.316 mg/L	0.0405	6.316 mg/L	0.0405	0.64%
Mo 202.031†	28658.0	1.705 mg/L	0.0146	1.705 mg/L	0.0146	0.86%
Na 589.592†	58275.4	5.699 mg/L	0.0182	5.699 mg/L	0.0182	0.32%
Ni 231.604†	138568.2	3.714 mg/L	0.0266	3.714 mg/L	0.0266	0.72%
Pb 220.353†	6638.2	1.083 mg/L	0.0103	1.083 mg/L	0.0103	0.95%
Sb 206.836†	2995.6	1.200 mg/L	0.0058	1.200 mg/L	0.0058	0.49%
Se 196.026†	3475.3	2.020 mg/L	0.0262	2.020 mg/L	0.0262	1.30%
Sn 189.927†	5956.2	0.9246 mg/L	0.00735	0.9246 mg/L	0.00735	0.79%
Ti 337.279†	128807.3	3.757 mg/L	0.0234	3.757 mg/L	0.0234	0.62%
Tl 351.924†	4412.9	2.581 mg/L	0.0291	2.581 mg/L	0.0291	1.13%
V 290.880†	90079.2	1.267 mg/L	0.0111	1.267 mg/L	0.0111	0.87%
Zn 206.200†	106544.7	2.004 mg/L	0.0152	2.004 mg/L	0.0152	0.76%
Zr 343.823†	12375.1	0.0834 mg/L	0.00067	0.0834 mg/L	0.00067	0.80%

Batch ID: AVIO 500

Sequence No.: 15

Sample ID: B370650-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 25

Date Collected: 4/11/2024 1:09:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	195586.5	85.9	%	1.35	85.9	%	1.57%
Y axial	1790396.4	89.9	%	0.39	89.9	%	0.43%
Ag 328.068†	28467.7	0.8782	mg/L	0.00139	0.8782	mg/L	0.16%
Al 396.153†	248820.3	57.99	mg/L	1.033	57.99	mg/L	1.78%
As 188.979†	4917.1	3.137	mg/L	0.0102	3.137	mg/L	0.32%
B 208.889†	14541.8	2.213	mg/L	0.0008	2.213	mg/L	0.04%
Ba 233.527†	33726.8	2.956	mg/L	0.0383	2.956	mg/L	1.30%
Be 313.107†	1017226.7	1.729	mg/L	0.0328	1.729	mg/L	1.90%
Ca 317.933†	700666.1	52.07	mg/L	1.016	52.07	mg/L	1.95%
Cd 228.802†	55530.0	2.141	mg/L	0.0013	2.141	mg/L	0.06%
Co 228.616†	18867.2	0.8299	mg/L	0.00043	0.8299	mg/L	0.05%
Cr 267.716†	88948.5	1.855	mg/L	0.0026	1.855	mg/L	0.14%
Cu 327.393†	117674.8	2.147	mg/L	0.0040	2.147	mg/L	0.19%
Fe 238.204†	497927.9	62.14	mg/L	1.136	62.14	mg/L	1.83%
K 766.490†	64040.4	11.43	mg/L	0.022	11.43	mg/L	0.19%
Mg 285.213†	216744.6	16.34	mg/L	0.012	16.34	mg/L	0.07%
Mn 257.610†	232469.5	5.651	mg/L	0.0116	5.651	mg/L	0.21%
Mo 202.031†	24288.8	1.445	mg/L	0.0012	1.445	mg/L	0.08%
Na 589.592†	50768.8	4.965	mg/L	0.0123	4.965	mg/L	0.25%
Ni 231.604†	118470.1	3.175	mg/L	0.0033	3.175	mg/L	0.10%
Pb 220.353†	5864.2	0.9570	mg/L	0.00299	0.9570	mg/L	0.31%
Sb 206.836†	2592.5	1.039	mg/L	0.0029	1.039	mg/L	0.28%
Se 196.026†	2981.8	1.735	mg/L	0.0053	1.735	mg/L	0.31%
Sn 189.927†	5162.4	0.8015	mg/L	0.00105	0.8015	mg/L	0.13%
Ti 337.279†	114046.8	3.327	mg/L	0.0022	3.327	mg/L	0.07%
Tl 351.924†	3939.3	2.304	mg/L	0.0073	2.304	mg/L	0.32%
V 290.880†	76461.5	1.076	mg/L	0.0025	1.076	mg/L	0.24%
Zn 206.200†	91992.0	1.730	mg/L	0.0036	1.730	mg/L	0.21%
Zr 343.823†	10837.5	0.0730	mg/L	0.00007	0.0730	mg/L	0.10%

Batch ID: AVIO 500

Sequence No.: 16

Sample ID: B370650-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 26

Date Collected: 4/11/2024 1:18:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	200728.6	88.1	%	0.60	88.1	%	0.68%
Y axial	1831832.2	92.0	%	0.23	92.0	%	0.25%
Ag 328.068†	17248.9	0.5319	mg/L	0.00787	0.5319	mg/L	1.48%
Al 396.153†	72196.2	16.82	mg/L	0.028	16.82	mg/L	0.17%
As 188.979†	777.4	0.5024	mg/L	0.00240	0.5024	mg/L	0.48%
B 208.889†	5770.7	0.8818	mg/L	0.00559	0.8818	mg/L	0.63%
Ba 233.527†	7373.6	0.6463	mg/L	0.00282	0.6463	mg/L	0.44%
Be 313.107†	291487.6	0.4945	mg/L	0.00062	0.4945	mg/L	0.13%
Ca 317.933†	101801.3	7.565	mg/L	0.0870	7.565	mg/L	1.15%
Cd 228.802†	12580.8	0.4923	mg/L	0.00347	0.4923	mg/L	0.71%
Co 228.616†	12101.5	0.5326	mg/L	0.00324	0.5326	mg/L	0.61%
Cr 267.716†	31655.5	0.6598	mg/L	0.00366	0.6598	mg/L	0.55%
Cu 327.393†	65110.8	1.187	mg/L	0.0058	1.187	mg/L	0.49%
Fe 238.204†	623776.2	77.84	mg/L	0.207	77.84	mg/L	0.27%

K 766.490†	34511.8	6.158 mg/L	0.0534	6.158 mg/L	0.0534	0.87%
Mg 285.213†	116227.0	8.798 mg/L	0.0988	8.798 mg/L	0.0988	1.12%
Mn 257.610†	258809.5	6.291 mg/L	0.0165	6.291 mg/L	0.0165	0.26%
Mo 202.031†	8552.2	0.5087 mg/L	0.00287	0.5087 mg/L	0.00287	0.56%
Na 589.592†	45710.2	4.470 mg/L	0.0051	4.470 mg/L	0.0051	0.11%
Ni 231.604†	19842.0	0.5341 mg/L	0.00283	0.5341 mg/L	0.00283	0.53%
Pb 220.353†	3503.7	0.5679 mg/L	0.00504	0.5679 mg/L	0.00504	0.89%
Sb 206.836†	1102.2	0.4427 mg/L	0.00479	0.4427 mg/L	0.00479	1.08%
Se 196.026†	813.9	0.5094 mg/L	0.00550	0.5094 mg/L	0.00550	1.08%
Sn 189.927†	3448.7	0.5346 mg/L	0.00403	0.5346 mg/L	0.00403	0.75%
Ti 337.279†	57914.7	1.689 mg/L	0.0190	1.689 mg/L	0.0190	1.13%
Tl 351.924†	903.4	0.5381 mg/L	0.00234	0.5381 mg/L	0.00234	0.43%
V 290.880†	44486.3	0.6230 mg/L	0.00469	0.6230 mg/L	0.00469	0.75%
Zn 206.200†	65090.0	1.221 mg/L	0.0057	1.221 mg/L	0.0057	0.47%
Zr 343.823†	2158.2	0.0117 mg/L	0.00021	0.0117 mg/L	0.00021	1.79%

Batch ID: AVIO 500

Sequence No.: 17

Sample ID: B370650-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 27

Date Collected: 4/11/2024 1:27:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y radial	201645.2	88.5	%	0.62	88.5	0.62	0.70%
Y axial	1858539.3	93.3	%	0.51	93.3	0.51	0.54%
Ag 328.068†	16593.8	0.5191	mg/L	0.00387	0.5191	0.00387	0.75%
Al 396.153†	82346.2	19.19	mg/L	0.042	19.19	0.042	0.22%
As 188.979†	795.7	0.5601	mg/L	0.00861	0.5601	0.00861	1.54%
B 208.889†	5635.8	0.8600	mg/L	0.00628	0.8600	0.00628	0.73%
Ba 233.527†	7048.0	0.6177	mg/L	0.00370	0.6177	0.00370	0.60%
Be 313.107†	282708.9	0.4794	mg/L	0.00096	0.4794	0.00096	0.20%
Ca 317.933†	103495.1	7.691	mg/L	0.0755	7.691	0.0755	0.98%
Cd 228.802†	12253.3	0.4788	mg/L	0.00222	0.4788	0.00222	0.46%
Co 228.616†	11822.9	0.5219	mg/L	0.00310	0.5219	0.00310	0.59%
Cr 267.716†	26619.3	0.5643	mg/L	0.00254	0.5643	0.00254	0.45%
Cu 327.393†	63080.2	1.150	mg/L	0.0057	1.150	0.0057	0.50%
Fe 238.204†	3672854.8	458.3	mg/L	1.18	458.3	1.18	0.26%
K 766.490†	24823.3	4.429	mg/L	0.0614	4.429	0.0614	1.39%
Mg 285.213†	125262.3	9.749	mg/L	0.1105	9.749	0.1105	1.13%
Mn 257.610†	278837.0	6.788	mg/L	0.0186	6.788	0.0186	0.27%
Mo 202.031†	8685.6	0.5166	mg/L	0.00228	0.5166	0.00228	0.44%
Na 589.592†	44659.0	4.367	mg/L	0.0117	4.367	0.0117	0.27%
Ni 231.604†	18579.3	0.5195	mg/L	0.00321	0.5195	0.00321	0.62%
Pb 220.353†	3506.2	0.5571	mg/L	0.00384	0.5571	0.00384	0.69%
Sb 206.836†	1082.8	0.4361	mg/L	0.00222	0.4361	0.00222	0.51%
Se 196.026†	551.0	0.6053	mg/L	0.00880	0.6053	0.00880	1.45%
Sn 189.927†	3220.2	0.4981	mg/L	0.00264	0.4981	0.00264	0.53%
Ti 337.279†	30919.3	0.9019	mg/L	0.00595	0.9019	0.00595	0.66%
Tl 351.924†	782.5	0.5428	mg/L	0.01238	0.5428	0.01238	2.28%
V 290.880†	46716.8	0.6300	mg/L	0.00405	0.6300	0.00405	0.64%
Zn 206.200†	97915.2	1.834	mg/L	0.0064	1.834	0.0064	0.35%
Zr 343.823†	3990.4	0.0082	mg/L	0.00020	0.0082	0.00020	2.44%

Batch ID: AVIO 500

Sequence No.: 18

Sample ID: B370650-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 28

Date Collected: 4/11/2024 1:36:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-PS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	192691.3	84.6	%	0.63	84.6	%	0.63	0.74%
Y axial	1775700.2	89.1	%	1.11	89.1	%	1.11	1.24%
Ag 328.068†	30.0	0.0135	mg/L	0.00082	0.0135	mg/L	0.00082	6.08%
Al 396.153†	93472.6	21.70	mg/L	0.144	21.70	mg/L	0.144	0.66%
As 188.979†	3120.2	1.986	mg/L	0.0270	1.986	mg/L	0.0270	1.36%
B 208.889†	23505.3	3.592	mg/L	0.0622	3.592	mg/L	0.0622	1.73%
Ba 233.527†	23866.6	2.092	mg/L	0.0127	2.092	mg/L	0.0127	0.61%
Be 313.107†	1187883.8	2.016	mg/L	0.0277	2.016	mg/L	0.0277	1.38%
Ca 317.933†	264539.2	19.66	mg/L	0.109	19.66	mg/L	0.109	0.56%
Cd 228.802†	50949.1	1.994	mg/L	0.0025	1.994	mg/L	0.0025	0.13%
Co 228.616†	46872.3	2.070	mg/L	0.0338	2.070	mg/L	0.0338	1.64%
Cr 267.716†	102628.5	2.140	mg/L	0.0016	2.140	mg/L	0.0016	0.07%
Cu 327.393†	229964.4	4.191	mg/L	0.0021	4.191	mg/L	0.0021	0.05%
Fe 238.204†	646477.7	80.69	mg/L	1.175	80.69	mg/L	1.175	1.46%
K 766.490†	100757.8	17.98	mg/L	0.099	17.98	mg/L	0.099	0.55%
Mg 285.213†	323705.3	24.41	mg/L	0.120	24.41	mg/L	0.120	0.49%
Mn 257.610†	323078.1	7.853	mg/L	0.0488	7.853	mg/L	0.0488	0.62%
Mo 202.031†	34773.2	2.068	mg/L	0.0044	2.068	mg/L	0.0044	0.21%
Na 589.592†	170956.8	16.72	mg/L	0.201	16.72	mg/L	0.201	1.20%
Ni 231.604†	77293.1	2.072	mg/L	0.0028	2.072	mg/L	0.0028	0.14%
Pb 220.353†	12716.1	2.065	mg/L	0.0361	2.065	mg/L	0.0361	1.75%
Sb 206.836†	5001.4	2.014	mg/L	0.0289	2.014	mg/L	0.0289	1.43%
Se 196.026†	3492.1	2.036	mg/L	0.0389	2.036	mg/L	0.0389	1.91%
Sn 189.927†	13065.6	2.020	mg/L	0.0344	2.020	mg/L	0.0344	1.70%
Ti 337.279†	102546.3	2.991	mg/L	0.0127	2.991	mg/L	0.0127	0.43%
Tl 351.924†	3736.9	2.188	mg/L	0.0241	2.188	mg/L	0.0241	1.10%
V 290.880†	154895.1	2.181	mg/L	0.0016	2.181	mg/L	0.0016	0.07%
Zn 206.200†	230088.7	4.314	mg/L	0.0169	4.314	mg/L	0.0169	0.39%
Zr 343.823†	1721.3	0.0086	mg/L	0.00019	0.0086	mg/L	0.00019	2.17%

Batch ID: AVIO 500

Sequence No.: 19

Sample ID: B370650-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 29

Date Collected: 4/11/2024 1:44:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-SRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	197989.0	86.9	%	0.90	86.9	%	0.90	1.03%
Y axial	2040289.9	102	%	13.71	102	%	13.71	13.38%
Ag 328.068†	-17.5	-0.0003	mg/L	0.00042	-0.0003	mg/L	0.00042	130.85%
Al 396.153†	16594.3	3.874	mg/L	0.0231	3.874	mg/L	0.0231	0.60%
As 188.979†	6.6	0.0059	mg/L	0.00239	0.0059	mg/L	0.00239	40.50%
B 208.889†	26.4	0.0041	mg/L	0.00557	0.0041	mg/L	0.00557	136.46%
Ba 233.527†	261.3	0.0229	mg/L	0.00299	0.0229	mg/L	0.00299	13.05%
Be 313.107†	77.9	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	54.76%
Ca 317.933†	8626.0	0.6410	mg/L	0.01106	0.6410	mg/L	0.01106	1.73%
Cd 228.802†	16.7	0.0006	mg/L	0.00131	0.0006	mg/L	0.00131	227.75%
Co 228.616†	105.5	0.0043	mg/L	0.00433	0.0043	mg/L	0.00433	100.01%
Cr 267.716†	283.6	0.0057	mg/L	0.00524	0.0057	mg/L	0.00524	91.53%
Cu 327.393†	376.8	0.0070	mg/L	0.00698	0.0070	mg/L	0.00698	99.85%
Fe 238.204†	104579.1	13.05	mg/L	0.059	13.05	mg/L	0.059	0.45%
K 766.490†	2847.1	0.5080	mg/L	0.01804	0.5080	mg/L	0.01804	3.55%
Mg 285.213†	22918.8	1.733	mg/L	0.0235	1.733	mg/L	0.0235	1.35%
Mn 257.610†	47991.5	1.167	mg/L	0.0013	1.167	mg/L	0.0013	0.11%
Mo 202.031†	26.2	0.0016	mg/L	0.00026	0.0016	mg/L	0.00026	16.76%
Na 589.592†	489.6	0.0479	mg/L	0.00518	0.0479	mg/L	0.00518	10.82%
Ni 231.604†	116.6	0.0036	mg/L	0.00263	0.0036	mg/L	0.00263	72.19%
Pb 220.353†	63.3	0.0102	mg/L	0.00972	0.0102	mg/L	0.00972	95.55%
Sb 206.836†	-2.0	-0.0007	mg/L	0.00551	-0.0007	mg/L	0.00551	815.66%
Se 196.026†	4.6	0.0103	mg/L	0.00358	0.0103	mg/L	0.00358	34.96%
Sn 189.927†	30.6	0.0050	mg/L	0.00471	0.0050	mg/L	0.00471	94.31%
Ti 337.279†	6205.3	0.1810	mg/L	0.00251	0.1810	mg/L	0.00251	1.39%

Tl 351.924†	-27.1	-0.0137 mg/L	0.03163	-0.0137 mg/L	0.03163	230.90%
V 290.880†	819.4	0.0109 mg/L	0.01394	0.0109 mg/L	0.01394	128.07%
Zn 206.200†	1224.6	0.0229 mg/L	0.02164	0.0229 mg/L	0.02164	94.36%
Zr 343.823†	220.5	0.0010 mg/L	0.00091	0.0010 mg/L	0.00091	92.37%

Batch ID: AVIO 500

Sequence No.: 20

Sample ID: 24D0729-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 30

Date Collected: 4/11/2024 1:54:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	189938.7	83.4 %		0.77	83.4 %	0.77	0.92%
Y axial	2115686.7	106 %		28.44	106 %	28.44	26.78%
Ag 328.068†	-6.6	0.0009 mg/L		0.00166	0.0009 mg/L	0.00166	184.59%
Al 396.153†	85995.7	20.08 mg/L		0.105	20.08 mg/L	0.105	0.52%
As 188.979†	7.0	0.0131 mg/L		0.00798	0.0131 mg/L	0.00798	60.91%
B 208.889†	16.3	0.0024 mg/L		0.00966	0.0024 mg/L	0.00966	400.10%
Ba 233.527†	1336.3	0.1171 mg/L		0.02672	0.1171 mg/L	0.02672	22.81%
Be 313.107†	653.3	0.0009 mg/L		0.00019	0.0009 mg/L	0.00019	20.68%
Ca 317.933†	44185.7	3.284 mg/L		0.0115	3.284 mg/L	0.0115	0.35%
Cd 228.802†	33.3	0.0013 mg/L		0.00392	0.0013 mg/L	0.00392	302.17%
Co 228.616†	346.7	0.0136 mg/L		0.02347	0.0136 mg/L	0.02347	173.04%
Cr 267.716†	882.4	0.0174 mg/L		0.02912	0.0174 mg/L	0.02912	167.18%
Cu 327.393†	2197.3	0.0407 mg/L		0.03663	0.0407 mg/L	0.03663	90.04%
Fe 238.204†	531773.3	66.36 mg/L		0.075	66.36 mg/L	0.075	0.11%
K 766.490†	16677.8	2.976 mg/L		0.0168	2.976 mg/L	0.0168	0.57%
Mg 285.213†	115778.9	8.757 mg/L		0.0340	8.757 mg/L	0.0340	0.39%
Mn 257.610†	245109.3	5.958 mg/L		0.0119	5.958 mg/L	0.0119	0.20%
Mo 202.031†	47.2	0.0028 mg/L		0.00231	0.0028 mg/L	0.00231	82.17%
Na 589.592†	3963.0	0.3875 mg/L		0.00967	0.3875 mg/L	0.00967	2.49%
Ni 231.604†	434.7	0.0142 mg/L		0.01735	0.0142 mg/L	0.01735	121.78%
Pb 220.353†	186.6	0.0298 mg/L		0.05086	0.0298 mg/L	0.05086	170.65%
Sb 206.836†	-2.1	-0.0002 mg/L		0.00836	-0.0002 mg/L	0.00836	>999.9%
Se 196.026†	-6.2	0.0352 mg/L		0.00759	0.0352 mg/L	0.00759	21.61%
Sn 189.927†	84.9	0.0146 mg/L		0.02146	0.0146 mg/L	0.02146	147.35%
Ti 337.279†	32329.0	0.9431 mg/L		0.00498	0.9431 mg/L	0.00498	0.53%
Tl 351.924†	-4.6	0.0081 mg/L		0.00326	0.0081 mg/L	0.00326	40.14%
V 290.880†	4381.9	0.0584 mg/L		0.05932	0.0584 mg/L	0.05932	101.60%
Zn 206.200†	3698.6	0.0693 mg/L		0.11165	0.0693 mg/L	0.11165	161.21%
Zr 343.823†	1120.5	0.0050 mg/L		0.00650	0.0050 mg/L	0.00650	130.54%

Batch ID: AVIO 500

Sequence No.: 21

Sample ID: 24D0729-09

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 31

Date Collected: 4/11/2024 2:04:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-09

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	191373.9	84.0 %		1.38	84.0 %	1.38	1.64%
Y axial	1819964.0	91.4 %		0.36	91.4 %	0.36	0.40%
Ag 328.068†	-22.7	0.0004 mg/L		0.00073	0.0004 mg/L	0.00073	208.01%
Al 396.153†	122617.5	28.62 mg/L		0.143	28.62 mg/L	0.143	0.50%
As 188.979†	10.8	0.0137 mg/L		0.00369	0.0137 mg/L	0.00369	26.90%
B 208.889†	59.6	0.0090 mg/L		0.00190	0.0090 mg/L	0.00190	21.02%
Ba 233.527†	2058.2	0.1804 mg/L		0.00095	0.1804 mg/L	0.00095	0.53%
Be 313.107†	594.6	0.0009 mg/L		0.00008	0.0009 mg/L	0.00008	8.99%
Ca 317.933†	51656.1	3.839 mg/L		0.0206	3.839 mg/L	0.0206	0.54%

Cd 228.802†	269.0	0.0107 mg/L	0.00026	0.0107 mg/L	0.00026	2.39%
Co 228.616†	565.1	0.0230 mg/L	0.00036	0.0230 mg/L	0.00036	1.56%
Cr 267.716†	1880.7	0.0402 mg/L	0.00059	0.0402 mg/L	0.00059	1.46%
Cu 327.393†	1814.0	0.0339 mg/L	0.00132	0.0339 mg/L	0.00132	3.90%
Fe 238.204†	410735.8	51.25 mg/L	0.204	51.25 mg/L	0.204	0.40%
K 766.490†	4242.3	0.7569 mg/L	0.02285	0.7569 mg/L	0.02285	3.02%
Mg 285.213†	145833.6	11.01 mg/L	0.027	11.01 mg/L	0.027	0.25%
Mn 257.610†	34256.4	0.8338 mg/L	0.01551	0.8338 mg/L	0.01551	1.86%
Mo 202.031†	109.9	0.0065 mg/L	0.00114	0.0065 mg/L	0.00114	17.41%
Na 589.592†	2233.0	0.2184 mg/L	0.00630	0.2184 mg/L	0.00630	2.89%
Ni 231.604†	816.3	0.0243 mg/L	0.00022	0.0243 mg/L	0.00022	0.90%
Pb 220.353†	420.7	0.0697 mg/L	0.00200	0.0697 mg/L	0.00200	2.86%
Sb 206.836†	1.6	0.0012 mg/L	0.00574	0.0012 mg/L	0.00574	474.63%
Se 196.026†	-25.2	0.0182 mg/L	0.00439	0.0182 mg/L	0.00439	24.15%
Sn 189.927†	231.8	0.0375 mg/L	0.00051	0.0375 mg/L	0.00051	1.36%
Ti 337.279†	38274.5	1.116 mg/L	0.0056	1.116 mg/L	0.0056	0.50%
Tl 351.924†	-2.3	0.0067 mg/L	0.00560	0.0067 mg/L	0.00560	83.88%
V 290.880†	3236.6	0.0434 mg/L	0.00037	0.0434 mg/L	0.00037	0.86%
Zn 206.200†	9329.1	0.1747 mg/L	0.00162	0.1747 mg/L	0.00162	0.93%
Zr 343.823†	5024.7	0.0329 mg/L	0.00023	0.0329 mg/L	0.00023	0.69%

Batch ID: AVIO 500

Sequence No.: 22

Sample ID: 24D0729-10

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 32

Date Collected: 4/11/2024 2:14:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190353.5	83.6 %		0.73	83.6 %	0.73	0.87%
Y axial	1752651.2	88.0 %		1.00	88.0 %	1.00	1.13%
Ag 328.068†	-395.0	-0.0044 mg/L		0.00028	-0.0044 mg/L	0.00028	6.41%
Al 396.153†	133860.8	31.20 mg/L		0.082	31.20 mg/L	0.082	0.26%
As 188.979†	19.2	0.0238 mg/L		0.00259	0.0238 mg/L	0.00259	10.89%
B 208.889†	136.5	0.0205 mg/L		0.00131	0.0205 mg/L	0.00131	6.41%
Ba 233.527†	4359.0	0.3821 mg/L		0.00804	0.3821 mg/L	0.00804	2.11%
Be 313.107†	1780.9	0.0028 mg/L		0.00013	0.0028 mg/L	0.00013	4.59%
Ca 317.933†	2351244.9	174.7 mg/L		0.22	174.7 mg/L	0.22	0.13%
Cd 228.802†	1714.6	0.0686 mg/L		0.00104	0.0686 mg/L	0.00104	1.52%
Co 228.616†	694.3	0.0277 mg/L		0.00092	0.0277 mg/L	0.00092	3.34%
Cr 267.716†	3191.1	0.0685 mg/L		0.00084	0.0685 mg/L	0.00084	1.22%
Cu 327.393†	4460.0	0.0856 mg/L		0.00125	0.0856 mg/L	0.00125	1.46%
Fe 238.204†	702918.5	87.71 mg/L		0.286	87.71 mg/L	0.286	0.33%
K 766.490†	34339.0	6.127 mg/L		0.0290	6.127 mg/L	0.0290	0.47%
Mg 285.213†	498563.4	37.52 mg/L		0.081	37.52 mg/L	0.081	0.21%
Mn 257.610†	33436.1	0.8149 mg/L		0.01035	0.8149 mg/L	0.01035	1.27%
Mo 202.031†	315.4	0.0188 mg/L		0.00047	0.0188 mg/L	0.00047	2.53%
Na 589.592†	6621.5	0.6475 mg/L		0.00994	0.6475 mg/L	0.00994	1.53%
Ni 231.604†	1696.9	0.0497 mg/L		0.00051	0.0497 mg/L	0.00051	1.03%
Pb 220.353†	965.1	0.1574 mg/L		0.00238	0.1574 mg/L	0.00238	1.51%
Sb 206.836†	9.0	0.0045 mg/L		0.00094	0.0045 mg/L	0.00094	20.79%
Se 196.026†	-68.2	0.0173 mg/L		0.00262	0.0173 mg/L	0.00262	15.16%
Sn 189.927†	180.8	0.0306 mg/L		0.00101	0.0306 mg/L	0.00101	3.32%
Ti 337.279†	59292.7	1.730 mg/L		0.0233	1.730 mg/L	0.0233	1.35%
Tl 351.924†	-19.5	0.0022 mg/L		0.00914	0.0022 mg/L	0.00914	419.01%
V 290.880†	4906.3	0.0673 mg/L		0.00228	0.0673 mg/L	0.00228	3.38%
Zn 206.200†	13745.8	0.2575 mg/L		0.00346	0.2575 mg/L	0.00346	1.34%
Zr 343.823†	4021.5	0.0243 mg/L		0.00111	0.0243 mg/L	0.00111	4.57%

Batch ID: AVIO 500

Sequence No.: 23

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Autosampler Location: 5

Date Collected: 4/11/2024 2:23:01 PM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	195843.9	86.0 %	0.36	86.0 %	0.36	0.42%
Y axial	1860949.5	93.4 %	0.76	93.4 %	0.76	0.81%
Ag 328.068†	75425.7	2.300 mg/L	0.0647	2.300 mg/L	0.0647	2.81%
QC value within limits for Ag 328.068 Recovery = 91.99%						
Al 396.153†	43537.0	9.790 mg/L	0.0251	9.790 mg/L	0.0251	0.26%
QC value within limits for Al 396.153 Recovery = 97.90%						
As 188.979†	8298.9	5.260 mg/L	0.0626	5.260 mg/L	0.0626	1.19%
QC value within limits for As 188.979 Recovery = 105.21%						
B 208.889†	31800.0	4.725 mg/L	0.0503	4.725 mg/L	0.0503	1.06%
QC value within limits for B 208.889 Recovery = 94.51%						
Ba 233.527†	52427.6	4.595 mg/L	0.0170	4.595 mg/L	0.0170	0.37%
QC value within limits for Ba 233.527 Recovery = 91.90%						
Be 313.107†	2890446.9	4.907 mg/L	0.0632	4.907 mg/L	0.0632	1.29%
QC value within limits for Be 313.107 Recovery = 98.15%						
Ca 317.933†	134135.6	9.968 mg/L	0.0328	9.968 mg/L	0.0328	0.33%
QC value within limits for Ca 317.933 Recovery = 99.68%						
Cd 228.802†	129719.5	5.070 mg/L	0.0211	5.070 mg/L	0.0211	0.42%
QC value within limits for Cd 228.802 Recovery = 101.39%						
Co 228.616†	117480.4	5.192 mg/L	0.0175	5.192 mg/L	0.0175	0.34%
QC value within limits for Co 228.616 Recovery = 103.85%						
Cr 267.716†	247867.1	5.172 mg/L	0.0182	5.172 mg/L	0.0182	0.35%
QC value within limits for Cr 267.716 Recovery = 103.45%						
Cu 327.393†	274813.5	5.035 mg/L	0.0147	5.035 mg/L	0.0147	0.29%
QC value within limits for Cu 327.393 Recovery = 100.71%						
Fe 238.204†	39010.4	4.931 mg/L	0.0307	4.931 mg/L	0.0307	0.62%
QC value within limits for Fe 238.204 Recovery = 98.62%						
K 766.490†	55027.0	9.818 mg/L	0.0319	9.818 mg/L	0.0319	0.32%
QC value within limits for K 766.490 Recovery = 98.18%						
Mg 285.213†	129441.7	9.723 mg/L	0.0326	9.723 mg/L	0.0326	0.34%
QC value within limits for Mg 285.213 Recovery = 97.23%						
Mn 257.610†	204780.5	4.976 mg/L	0.0111	4.976 mg/L	0.0111	0.22%
QC value within limits for Mn 257.610 Recovery = 99.53%						
Mo 202.031†	86551.1	5.148 mg/L	0.0207	5.148 mg/L	0.0207	0.40%
QC value within limits for Mo 202.031 Recovery = 102.97%						
Na 589.592†	102888.8	10.06 mg/L	0.008	10.06 mg/L	0.008	0.08%
QC value within limits for Na 589.592 Recovery = 100.62%						
Ni 231.604†	195619.6	5.236 mg/L	0.0203	5.236 mg/L	0.0203	0.39%
QC value within limits for Ni 231.604 Recovery = 104.73%						
Pb 220.353†	31984.5	5.200 mg/L	0.0635	5.200 mg/L	0.0635	1.22%
QC value within limits for Pb 220.353 Recovery = 104.01%						
Sb 206.836†	12741.9	5.131 mg/L	0.0609	5.131 mg/L	0.0609	1.19%
QC value within limits for Sb 206.836 Recovery = 102.61%						
Se 196.026†	9311.0	5.303 mg/L	0.0594	5.303 mg/L	0.0594	1.12%
QC value within limits for Se 196.026 Recovery = 106.07%						
Sn 189.927†	34404.6	5.315 mg/L	0.0583	5.315 mg/L	0.0583	1.10%
QC value within limits for Sn 189.927 Recovery = 106.29%						
Ti 337.279†	169332.3	4.937 mg/L	0.0138	4.937 mg/L	0.0138	0.28%
QC value within limits for Ti 337.279 Recovery = 98.75%						
Tl 351.924†	4788.8	2.866 mg/L	0.0710	2.866 mg/L	0.0710	2.48%
QC value greater than the upper limit for Tl 351.924 Recovery = 114.64%						
V 290.880†	363230.4	5.121 mg/L	0.0110	5.121 mg/L	0.0110	0.21%
QC value within limits for V 290.880 Recovery = 102.42%						
Zn 206.200†	287311.6	5.400 mg/L	0.0204	5.400 mg/L	0.0204	0.38%
QC value within limits for Zn 206.200 Recovery = 108.01%						
Zr 343.823†	750140.4	5.235 mg/L	0.0178	5.235 mg/L	0.0178	0.34%
QC value within limits for Zr 343.823 Recovery = 104.70%						
QC Failed. Continue with analysis.						

Batch ID: AVIO 500

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Autosampler Location: 1

Date Collected: 4/11/2024 2:30:57 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	198256.0	87.1 %		1.75	87.1 %	1.75	2.02%
Y axial	1843088.9	92.5 %		0.86	92.5 %	0.86	0.93%
Ag 328.068†	69.0	0.0021 mg/L		0.00024	0.0021 mg/L	0.00024	11.36%
QC value within limits for Ag 328.068			Recovery =	Not calculated			
Al 396.153†	-40.8	-0.0096 mg/L		0.01263	-0.0096 mg/L	0.01263	131.33%
QC value within limits for Al 396.153			Recovery =	Not calculated			
As 188.979†	4.8	0.0030 mg/L		0.00277	0.0030 mg/L	0.00277	91.19%
QC value within limits for As 188.979			Recovery =	Not calculated			
B 208.889†	24.3	0.0037 mg/L		0.00123	0.0037 mg/L	0.00123	32.93%
QC value within limits for B 208.889			Recovery =	Not calculated			
Ba 233.527†	4.5	0.0004 mg/L		0.00099	0.0004 mg/L	0.00099	252.71%
QC value within limits for Ba 233.527			Recovery =	Not calculated			
Be 313.107†	77.5	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	84.35%
QC value within limits for Be 313.107			Recovery =	Not calculated			
Ca 317.933†	42.1	0.0031 mg/L		0.00109	0.0031 mg/L	0.00109	34.79%
QC value within limits for Ca 317.933			Recovery =	Not calculated			
Cd 228.802†	10.7	0.0003 mg/L		0.00034	0.0003 mg/L	0.00034	101.45%
QC value within limits for Cd 228.802			Recovery =	Not calculated			
Co 228.616†	-21.2	-0.0009 mg/L		0.00012	-0.0009 mg/L	0.00012	12.76%
QC value within limits for Co 228.616			Recovery =	Not calculated			
Cr 267.716†	-1.0	-0.0000 mg/L		0.00030	-0.0000 mg/L	0.00030	>999.9%
QC value within limits for Cr 267.716			Recovery =	Not calculated			
Cu 327.393†	-139.4	-0.0025 mg/L		0.00314	-0.0025 mg/L	0.00314	123.87%
QC value within limits for Cu 327.393			Recovery =	Not calculated			
Fe 238.204†	28.0	0.0035 mg/L		0.00024	0.0035 mg/L	0.00024	6.94%
QC value within limits for Fe 238.204			Recovery =	Not calculated			
K 766.490†	-504.7	-0.0901 mg/L		0.00990	-0.0901 mg/L	0.00990	11.00%
QC value within limits for K 766.490			Recovery =	Not calculated			
Mg 285.213†	-6.1	-0.0005 mg/L		0.00110	-0.0005 mg/L	0.00110	239.66%
QC value within limits for Mg 285.213			Recovery =	Not calculated			
Mn 257.610†	-39.9	-0.0010 mg/L		0.00014	-0.0010 mg/L	0.00014	14.47%
QC value within limits for Mn 257.610			Recovery =	Not calculated			
Mo 202.031†	26.0	0.0015 mg/L		0.00010	0.0015 mg/L	0.00010	6.46%
QC value within limits for Mo 202.031			Recovery =	Not calculated			
Na 589.592†	-616.0	-0.0602 mg/L		0.01308	-0.0602 mg/L	0.01308	21.71%
QC value within limits for Na 589.592			Recovery =	Not calculated			
Ni 231.604†	-44.0	-0.0012 mg/L		0.00038	-0.0012 mg/L	0.00038	32.39%
QC value within limits for Ni 231.604			Recovery =	Not calculated			
Pb 220.353†	17.2	0.0028 mg/L		0.00289	0.0028 mg/L	0.00289	103.41%
QC value within limits for Pb 220.353			Recovery =	Not calculated			
Sb 206.836†	9.2	0.0037 mg/L		0.00432	0.0037 mg/L	0.00432	116.52%
QC value within limits for Sb 206.836			Recovery =	Not calculated			
Se 196.026†	11.7	0.0066 mg/L		0.00281	0.0066 mg/L	0.00281	42.35%
QC value within limits for Se 196.026			Recovery =	Not calculated			
Sn 189.927†	3.9	0.0006 mg/L		0.00061	0.0006 mg/L	0.00061	102.69%
QC value within limits for Sn 189.927			Recovery =	Not calculated			
Ti 337.279†	-39.7	-0.0012 mg/L		0.00034	-0.0012 mg/L	0.00034	29.42%
QC value within limits for Ti 337.279			Recovery =	Not calculated			
Tl 351.924†	-17.9	-0.0104 mg/L		0.00463	-0.0104 mg/L	0.00463	44.43%
QC value within limits for Tl 351.924			Recovery =	Not calculated			
V 290.880†	96.5	0.0014 mg/L		0.00049	0.0014 mg/L	0.00049	36.02%
QC value within limits for V 290.880			Recovery =	Not calculated			
Zn 206.200†	48.9	0.0009 mg/L		0.00021	0.0009 mg/L	0.00021	23.14%
QC value within limits for Zn 206.200			Recovery =	Not calculated			
Zr 343.823†	56.3	0.0004 mg/L		0.00035	0.0004 mg/L	0.00035	89.58%

All analyte(s) passed QC.

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Batch ID: AVIO 500

Sequence No.: 25

Sample ID: 24D0729-11

Analyst:

Autosampler Location: 33

Date Collected: 4/11/2024 2:39:00 PM

Data Type: Original

Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24D0729-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	177757.5	78.1 %		0.36	78.1 %	0.36	0.46%
Y axial	1713106.8	86.0 %		0.46	86.0 %	0.46	0.54%
Ag 328.068†	-181.0	-0.0030 mg/L		0.00141	-0.0030 mg/L	0.00141	46.35%
Al 396.153†	154546.1	36.08 mg/L		0.077	36.08 mg/L	0.077	0.21%
As 188.979†	10.8	0.0213 mg/L		0.00385	0.0213 mg/L	0.00385	18.08%
B 208.889†	78.9	0.0119 mg/L		0.00198	0.0119 mg/L	0.00198	16.59%
Ba 233.527†	1344.6	0.1179 mg/L		0.00182	0.1179 mg/L	0.00182	1.55%
Be 313.107†	1323.0	0.0020 mg/L		0.00006	0.0020 mg/L	0.00006	3.27%
Ca 317.933†	107425.9	7.983 mg/L		0.0446	7.983 mg/L	0.0446	0.56%
Cd 228.802†	72.2	0.0028 mg/L		0.00014	0.0028 mg/L	0.00014	5.10%
Co 228.616†	495.9	0.0169 mg/L		0.00044	0.0169 mg/L	0.00044	2.63%
Cr 267.716†	2705.9	0.0587 mg/L		0.00058	0.0587 mg/L	0.00058	0.99%
Cu 327.393†	3728.6	0.0697 mg/L		0.00183	0.0697 mg/L	0.00183	2.62%
Fe 238.204†	853183.7	106.5 mg/L		0.34	106.5 mg/L	0.34	0.32%
K 766.490†	18012.5	3.214 mg/L		0.0426	3.214 mg/L	0.0426	1.33%
Mg 285.213†	163336.6	12.36 mg/L		0.037	12.36 mg/L	0.037	0.30%
Mn 257.610†	45297.3	1.104 mg/L		0.0119	1.104 mg/L	0.0119	1.08%
Mo 202.031†	162.4	0.0097 mg/L		0.00088	0.0097 mg/L	0.00088	9.10%
Na 589.592†	5580.4	0.5457 mg/L		0.01600	0.5457 mg/L	0.01600	2.93%
Ni 231.604†	995.7	0.0319 mg/L		0.00061	0.0319 mg/L	0.00061	1.92%
Pb 220.353†	570.7	0.0934 mg/L		0.00243	0.0934 mg/L	0.00243	2.60%
Sb 206.836†	5.9	0.0041 mg/L		0.00474	0.0041 mg/L	0.00474	115.11%
Se 196.026†	-59.1	0.0344 mg/L		0.00083	0.0344 mg/L	0.00083	2.41%
Sn 189.927†	243.6	0.0415 mg/L		0.00026	0.0415 mg/L	0.00026	0.62%
Ti 337.279†	87317.4	2.547 mg/L		0.0057	2.547 mg/L	0.0057	0.23%
Tl 351.924†	-40.8	-0.0085 mg/L		0.00127	-0.0085 mg/L	0.00127	15.07%
V 290.880†	6031.1	0.0794 mg/L		0.00056	0.0794 mg/L	0.00056	0.70%
Zn 206.200†	11210.7	0.2100 mg/L		0.00178	0.2100 mg/L	0.00178	0.85%
Zr 343.823†	3482.1	0.0197 mg/L		0.00055	0.0197 mg/L	0.00055	2.79%

Batch ID: AVIO 500

Sequence No.: 26

Sample ID: 24D0729-12

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 34

Date Collected: 4/11/2024 2:48:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-12

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	191236.3	84.0 %		0.50	84.0 %	0.50	0.60%
Y axial	1821898.6	91.5 %		0.57	91.5 %	0.57	0.63%
Ag 328.068†	-106.5	-0.0011 mg/L		0.00113	-0.0011 mg/L	0.00113	102.47%
Al 396.153†	98190.0	22.92 mg/L		0.066	22.92 mg/L	0.066	0.29%
As 188.979†	15.7	0.0222 mg/L		0.00596	0.0222 mg/L	0.00596	26.85%
B 208.889†	69.9	0.0107 mg/L		0.00041	0.0107 mg/L	0.00041	3.86%
Ba 233.527†	1047.1	0.0918 mg/L		0.00047	0.0918 mg/L	0.00047	0.51%
Be 313.107†	1045.8	0.0016 mg/L		0.00002	0.0016 mg/L	0.00002	1.06%
Ca 317.933†	48163.0	3.579 mg/L		0.0146	3.579 mg/L	0.0146	0.41%
Cd 228.802†	2211.6	0.0884 mg/L		0.00114	0.0884 mg/L	0.00114	1.29%
Co 228.616†	355.5	0.0139 mg/L		0.00009	0.0139 mg/L	0.00009	0.62%
Cr 267.716†	4521.4	0.0966 mg/L		0.00049	0.0966 mg/L	0.00049	0.50%
Cu 327.393†	3987.2	0.0733 mg/L		0.00093	0.0733 mg/L	0.00093	1.27%
Fe 238.204†	770799.3	96.18 mg/L		0.432	96.18 mg/L	0.432	0.45%
K 766.490†	11510.3	2.054 mg/L		0.0117	2.054 mg/L	0.0117	0.57%
Mg 285.213†	85926.8	6.532 mg/L		0.0204	6.532 mg/L	0.0204	0.31%
Mn 257.610†	22214.7	0.5424 mg/L		0.00171	0.5424 mg/L	0.00171	0.32%
Mo 202.031†	109.8	0.0065 mg/L		0.00058	0.0065 mg/L	0.00058	8.89%
Na 589.592†	4983.1	0.4873 mg/L		0.01216	0.4873 mg/L	0.01216	2.50%

Method: ICP4_012224*

Page 11

Date: 4/11/2024 3:13:58 PM

Ni 231.604†	960.9	0.0305 mg/L	0.00038	0.0305 mg/L	0.00038	1.24%
Pb 220.353†	522.2	0.0843 mg/L	0.00085	0.0843 mg/L	0.00085	1.01%
Sb 206.836†	21.6	0.0082 mg/L	0.00610	0.0082 mg/L	0.00610	74.80%
Se 196.026†	-50.2	0.0332 mg/L	0.00419	0.0332 mg/L	0.00419	12.64%
Sn 189.927†	239.4	0.0384 mg/L	0.00136	0.0384 mg/L	0.00136	3.53%
Ti 337.279†	32672.3	0.9531 mg/L	0.00188	0.9531 mg/L	0.00188	0.20%
Tl 351.924†	-34.7	-0.0035 mg/L	0.00665	-0.0035 mg/L	0.00665	188.90%
V 290.880†	4781.0	0.0619 mg/L	0.00101	0.0619 mg/L	0.00101	1.63%
Zn 206.200†	10000.5	0.1875 mg/L	0.00152	0.1875 mg/L	0.00152	0.81%
Zr 343.823†	2291.2	0.0119 mg/L	0.00011	0.0119 mg/L	0.00011	0.92%

Batch ID: AVIO 500

Sequence No.: 27

Sample ID: 24D0729-13

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 35

Date Collected: 4/11/2024 2:58:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-13

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190781.1	83.8 %		0.20	83.8 %	0.20	0.24%
Y axial	1891858.1	95.0 %		1.80	95.0 %	1.80	1.90%
Ag 328.068†	-6.7	0.0008 mg/L		0.00045	0.0008 mg/L	0.00045	57.93%
Al 396.153†	117542.9	27.44 mg/L		0.043	27.44 mg/L	0.043	0.16%
As 188.979†	15.9	0.0149 mg/L		0.00251	0.0149 mg/L	0.00251	16.87%
B 208.889†	69.4	0.0106 mg/L		0.00066	0.0106 mg/L	0.00066	6.17%
Ba 233.527†	1206.0	0.1057 mg/L		0.00108	0.1057 mg/L	0.00108	1.02%
Be 313.107†	677.3	0.0009 mg/L		0.00006	0.0009 mg/L	0.00006	6.57%
Ca 317.933†	74146.1	5.510 mg/L		0.0172	5.510 mg/L	0.0172	0.31%
Cd 228.802†	2774.9	0.1110 mg/L		0.00160	0.1110 mg/L	0.00160	1.44%
Co 228.616†	546.4	0.0212 mg/L		0.00069	0.0212 mg/L	0.00069	3.24%
Cr 267.716†	3318.4	0.0699 mg/L		0.00059	0.0699 mg/L	0.00059	0.85%
Cu 327.393†	5117.0	0.0943 mg/L		0.00305	0.0943 mg/L	0.00305	3.23%
Fe 238.204†	259160.8	32.34 mg/L		0.039	32.34 mg/L	0.039	0.12%
K 766.490†	11047.1	1.971 mg/L		0.0228	1.971 mg/L	0.0228	1.16%
Mg 285.213†	99504.7	7.508 mg/L		0.0047	7.508 mg/L	0.0047	0.06%
Mn 257.610†	19586.2	0.4768 mg/L		0.00161	0.4768 mg/L	0.00161	0.34%
Mo 202.031†	96.8	0.0058 mg/L		0.00065	0.0058 mg/L	0.00065	11.23%
Na 589.592†	4329.1	0.4234 mg/L		0.01437	0.4234 mg/L	0.01437	3.39%
Ni 231.604†	1410.0	0.0393 mg/L		0.00061	0.0393 mg/L	0.00061	1.56%
Pb 220.353†	870.2	0.1432 mg/L		0.00318	0.1432 mg/L	0.00318	2.22%
Sb 206.836†	5.7	0.0027 mg/L		0.00349	0.0027 mg/L	0.00349	129.06%
Se 196.026†	-12.7	0.0133 mg/L		0.00256	0.0133 mg/L	0.00256	19.24%
Sn 189.927†	228.0	0.0375 mg/L		0.00065	0.0375 mg/L	0.00065	1.73%
Ti 337.279†	52102.1	1.520 mg/L		0.0049	1.520 mg/L	0.0049	0.33%
Tl 351.924†	-25.4	-0.0116 mg/L		0.00346	-0.0116 mg/L	0.00346	29.70%
V 290.880†	4517.8	0.0624 mg/L		0.00103	0.0624 mg/L	0.00103	1.65%
Zn 206.200†	10574.6	0.1982 mg/L		0.00281	0.1982 mg/L	0.00281	1.42%
Zr 343.823†	2539.9	0.0163 mg/L		0.00035	0.0163 mg/L	0.00035	2.12%

Batch ID: AVIO 500

Sequence No.: 28

Sample ID: 24D0729-14

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 36

Date Collected: 4/11/2024 3:08:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-14

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190717.0	83.8 %		1.18	83.8 %	1.18	1.41%
Y axial	1854819.2	93.1 %		1.25	93.1 %	1.25	1.34%
Ag 328.068†	2.0	0.0011 mg/L		0.00058	0.0011 mg/L	0.00058	52.74%

Al 396.153†	87747.2	20.48 mg/L	0.073	20.48 mg/L	0.073	0.35%
As 188.979†	7.7	0.0100 mg/L	0.00043	0.0100 mg/L	0.00043	4.33%
B 208.889†	64.3	0.0098 mg/L	0.00165	0.0098 mg/L	0.00165	16.81%
Ba 233.527†	693.8	0.0608 mg/L	0.00086	0.0608 mg/L	0.00086	1.42%
Be 313.107†	426.3	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	13.83%
Ca 317.933†	76454.9	5.682 mg/L	0.0416	5.682 mg/L	0.0416	0.73%
Cd 228.802†	1923.6	0.0770 mg/L	0.00096	0.0770 mg/L	0.00096	1.24%
Co 228.616†	370.0	0.0143 mg/L	0.00019	0.0143 mg/L	0.00019	1.36%
Cr 267.716†	3403.7	0.0718 mg/L	0.00126	0.0718 mg/L	0.00126	1.75%
Cu 327.393†	3083.2	0.0569 mg/L	0.00129	0.0569 mg/L	0.00129	2.26%
Fe 238.204†	299547.5	37.38 mg/L	0.128	37.38 mg/L	0.128	0.34%
K 766.490†	9990.0	1.782 mg/L	0.0035	1.782 mg/L	0.0035	0.20%
Mg 285.213†	100453.0	7.583 mg/L	0.0092	7.583 mg/L	0.0092	0.12%
Mn 257.610†	18115.5	0.4412 mg/L	0.00608	0.4412 mg/L	0.00608	1.38%
Mo 202.031†	95.4	0.0057 mg/L	0.00061	0.0057 mg/L	0.00061	10.80%
Na 589.592†	4807.1	0.4701 mg/L	0.01291	0.4701 mg/L	0.01291	2.75%
Ni 231.604†	1083.6	0.0309 mg/L	0.00100	0.0309 mg/L	0.00100	3.23%
Pb 220.353†	268.2	0.0446 mg/L	0.00133	0.0446 mg/L	0.00133	2.98%
Sb 206.836†	13.1	0.0052 mg/L	0.00261	0.0052 mg/L	0.00261	50.26%
Se 196.026†	-13.8	0.0160 mg/L	0.00153	0.0160 mg/L	0.00153	9.59%
Sn 189.927†	236.3	0.0381 mg/L	0.00028	0.0381 mg/L	0.00028	0.74%
Ti 337.279†	35653.0	1.040 mg/L	0.0043	1.040 mg/L	0.0043	0.41%
Tl 351.924†	-28.5	-0.0115 mg/L	0.01202	-0.0115 mg/L	0.01202	104.79%
V 290.880†	3527.7	0.0481 mg/L	0.00118	0.0481 mg/L	0.00118	2.45%
Zn 206.200†	8016.8	0.1503 mg/L	0.00218	0.1503 mg/L	0.00218	1.45%
Zr 343.823†	1844.2	0.0113 mg/L	0.00019	0.0113 mg/L	0.00019	1.70%

Batch ID: AVIO 500

Sequence No.: 29

Sample ID: 24D0729-15

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 37

Date Collected: 4/11/2024 3:18:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	195326.6	85.8 %	1.68	85.8 %	1.68	1.96%
Y axial	1940902.2	97.4 %	0.24	97.4 %	0.24	0.25%
Ag 328.068†	7.4	0.0011 mg/L	0.00051	0.0011 mg/L	0.00051	47.25%
Al 396.153†	91048.3	21.25 mg/L	0.071	21.25 mg/L	0.071	0.33%
As 188.979†	13.3	0.0128 mg/L	0.00285	0.0128 mg/L	0.00285	22.29%
B 208.889†	51.1	0.0077 mg/L	0.00117	0.0077 mg/L	0.00117	15.14%
Ba 233.527†	1084.2	0.0950 mg/L	0.00061	0.0950 mg/L	0.00061	0.64%
Be 313.107†	913.7	0.0014 mg/L	0.00008	0.0014 mg/L	0.00008	5.73%
Ca 317.933†	43960.7	3.267 mg/L	0.0114	3.267 mg/L	0.0114	0.35%
Cd 228.802†	1933.8	0.0773 mg/L	0.00028	0.0773 mg/L	0.00028	0.36%
Co 228.616†	354.8	0.0132 mg/L	0.00040	0.0132 mg/L	0.00040	3.05%
Cr 267.716†	3607.7	0.0759 mg/L	0.00021	0.0759 mg/L	0.00021	0.28%
Cu 327.393†	4389.5	0.0808 mg/L	0.00056	0.0808 mg/L	0.00056	0.70%
Fe 238.204†	240563.8	30.02 mg/L	0.061	30.02 mg/L	0.061	0.20%
K 766.490†	12464.8	2.224 mg/L	0.0501	2.224 mg/L	0.0501	2.25%
Mg 285.213†	82755.8	6.247 mg/L	0.0121	6.247 mg/L	0.0121	0.19%
Mn 257.610†	14239.4	0.3468 mg/L	0.00669	0.3468 mg/L	0.00669	1.93%
Mo 202.031†	104.6	0.0062 mg/L	0.00011	0.0062 mg/L	0.00011	1.70%
Na 589.592†	3639.5	0.3559 mg/L	0.01329	0.3559 mg/L	0.01329	3.73%
Ni 231.604†	1114.4	0.0313 mg/L	0.00015	0.0313 mg/L	0.00015	0.47%
Pb 220.353†	582.2	0.0959 mg/L	0.00117	0.0959 mg/L	0.00117	1.22%
Sb 206.836†	12.0	0.0049 mg/L	0.00095	0.0049 mg/L	0.00095	19.37%
Se 196.026†	-9.8	0.0136 mg/L	0.00179	0.0136 mg/L	0.00179	13.16%
Sn 189.927†	230.3	0.0375 mg/L	0.00024	0.0375 mg/L	0.00024	0.64%
Ti 337.279†	43694.2	1.275 mg/L	0.0042	1.275 mg/L	0.0042	0.33%
Tl 351.924†	-24.1	-0.0108 mg/L	0.00321	-0.0108 mg/L	0.00321	29.65%
V 290.880†	4293.0	0.0592 mg/L	0.00035	0.0592 mg/L	0.00035	0.60%
Zn 206.200†	17107.4	0.3204 mg/L	0.00587	0.3204 mg/L	0.00587	1.83%
Zr 343.823†	2369.0	0.0152 mg/L	0.00024	0.0152 mg/L	0.00024	1.56%

Batch ID: AVIO 500
 Sequence No.: 30
 Sample ID: 24D0729-16
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 200

Autosampler Location: 38
 Date Collected: 4/11/2024 3:27:47 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 24D0729-16

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	190136.7	83.5 %		0.20	83.5 %		0.20	0.24%
Y axial	1813352.3	91.0 %		1.23	91.0 %		1.23	1.35%
Ag 328.068†	-232.6	-0.0010 mg/L		0.00024	-0.0010 mg/L		0.00024	25.01%
Al 396.153†	371988.6	86.83 mg/L		0.087	86.83 mg/L		0.087	0.10%
As 188.979†	12.4	0.0383 mg/L		0.00387	0.0383 mg/L		0.00387	10.12%
B 208.889†	139.1	0.0206 mg/L		0.00329	0.0206 mg/L		0.00329	16.00%
Ba 233.527†	4331.0	0.3796 mg/L		0.00265	0.3796 mg/L		0.00265	0.70%
Be 313.107†	2704.9	0.0037 mg/L		0.00017	0.0037 mg/L		0.00017	4.59%
Ca 317.933†	445796.3	33.13 mg/L		0.080	33.13 mg/L		0.080	0.24%
Cd 228.802†	6308.8	0.2530 mg/L		0.00356	0.2530 mg/L		0.00356	1.41%
Co 228.616†	2000.4	0.0724 mg/L		0.00159	0.0724 mg/L		0.00159	2.19%
Cr 267.716†	15487.9	0.3276 mg/L		0.00465	0.3276 mg/L		0.00465	1.42%
Cu 327.393†	9944.5	0.1867 mg/L		0.00234	0.1867 mg/L		0.00234	1.25%
Fe 238.204†	1701324.7	212.3 mg/L		0.45	212.3 mg/L		0.45	0.21%
K 766.490†	80522.6	14.37 mg/L		0.044	14.37 mg/L		0.044	0.30%
Mg 285.213†	605643.0	45.71 mg/L		0.066	45.71 mg/L		0.066	0.14%
Mn 257.610†	94357.3	2.299 mg/L		0.0255	2.299 mg/L		0.0255	1.11%
Mo 202.031†	409.8	0.0244 mg/L		0.00027	0.0244 mg/L		0.00027	1.12%
Na 589.592†	13062.7	1.277 mg/L		0.0091	1.277 mg/L		0.0091	0.71%
Ni 231.604†	6046.6	0.1724 mg/L		0.00223	0.1724 mg/L		0.00223	1.29%
Pb 220.353†	844.3	0.1405 mg/L		0.00239	0.1405 mg/L		0.00239	1.70%
Sb 206.836†	-18.9	-0.0047 mg/L		0.00142	-0.0047 mg/L		0.00142	30.24%
Se 196.026†	-152.5	0.0487 mg/L		0.00141	0.0487 mg/L		0.00141	2.88%
Sn 189.927†	193.3	0.0424 mg/L		0.00053	0.0424 mg/L		0.00053	1.26%
Ti 337.279†	277824.4	8.104 mg/L		0.0107	8.104 mg/L		0.0107	0.13%
Tl 351.924†	-47.6	-0.0040 mg/L		0.00455	-0.0040 mg/L		0.00455	114.12%
V 290.880†	19261.2	0.2625 mg/L		0.00177	0.2625 mg/L		0.00177	0.67%
Zn 206.200†	40909.6	0.7669 mg/L		0.01168	0.7669 mg/L		0.01168	1.52%
Zr 343.823†	5014.9	0.0259 mg/L		0.00056	0.0259 mg/L		0.00056	2.18%

Batch ID: AVIO 500
 Sequence No.: 31
 Sample ID: 24D0729-17
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 200

Autosampler Location: 39
 Date Collected: 4/11/2024 3:36:38 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 24D0729-17

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	183695.6	80.7 %		0.84	80.7 %		0.84	1.05%
Y axial	1816787.2	91.2 %		0.46	91.2 %		0.46	0.50%
Ag 328.068†	-18.0	0.0015 mg/L		0.00047	0.0015 mg/L		0.00047	30.67%
Al 396.153†	115366.3	26.93 mg/L		0.250	26.93 mg/L		0.250	0.93%
As 188.979†	15.2	0.0177 mg/L		0.00090	0.0177 mg/L		0.00090	5.08%
B 208.889†	83.8	0.0127 mg/L		0.00100	0.0127 mg/L		0.00100	7.89%
Ba 233.527†	1808.2	0.1585 mg/L		0.00230	0.1585 mg/L		0.00230	1.45%
Be 313.107†	786.3	0.0010 mg/L		0.00008	0.0010 mg/L		0.00008	7.69%
Ca 317.933†	260335.6	19.35 mg/L		0.235	19.35 mg/L		0.235	1.21%
Cd 228.802†	7519.8	0.3012 mg/L		0.00098	0.3012 mg/L		0.00098	0.33%
Co 228.616†	566.1	0.0213 mg/L		0.00073	0.0213 mg/L		0.00073	3.44%
Cr 267.716†	8882.4	0.1865 mg/L		0.00126	0.1865 mg/L		0.00126	0.67%
Cu 327.393†	6319.4	0.1167 mg/L		0.00166	0.1167 mg/L		0.00166	1.43%
Fe 238.204†	469394.5	58.57 mg/L		0.637	58.57 mg/L		0.637	1.09%

K 766.490†	18205.1	3.248 mg/L	0.0145	3.248 mg/L	0.0145	0.45%
Mg 285.213†	172802.7	13.04 mg/L	0.118	13.04 mg/L	0.118	0.91%
Mn 257.610†	29258.6	0.7126 mg/L	0.01345	0.7126 mg/L	0.01345	1.89%
Mo 202.031†	163.8	0.0097 mg/L	0.00026	0.0097 mg/L	0.00026	2.70%
Na 589.592†	8954.4	0.8757 mg/L	0.01668	0.8757 mg/L	0.01668	1.90%
Ni 231.604†	1529.2	0.0438 mg/L	0.00036	0.0438 mg/L	0.00036	0.82%
Pb 220.353†	460.6	0.0759 mg/L	0.00217	0.0759 mg/L	0.00217	2.86%
Sb 206.836†	11.9	0.0037 mg/L	0.00399	0.0037 mg/L	0.00399	107.32%
Se 196.026†	-36.5	0.0166 mg/L	0.00418	0.0166 mg/L	0.00418	25.21%
Sn 189.927†	245.0	0.0408 mg/L	0.00043	0.0408 mg/L	0.00043	1.06%
Ti 337.279†	67042.6	1.956 mg/L	0.0207	1.956 mg/L	0.0207	1.06%
Tl 351.924†	-31.2	-0.0108 mg/L	0.00418	-0.0108 mg/L	0.00418	38.67%
V 290.880†	7272.9	0.1001 mg/L	0.00150	0.1001 mg/L	0.00150	1.50%
Zn 206.200†	23368.6	0.4381 mg/L	0.00881	0.4381 mg/L	0.00881	2.01%
Zr 343.823†	3319.0	0.0207 mg/L	0.00032	0.0207 mg/L	0.00032	1.57%

Batch ID: AVIO 500

Sequence No.: 32

Sample ID: 24D0729-18

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 40

Date Collected: 4/11/2024 3:46:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-18

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	187446.4	82.3 %		0.92	82.3 %	0.92	1.12%
Y axial	1787407.0	89.7 %		0.14	89.7 %	0.14	0.15%
Ag 328.068†	-225.6	-0.0008 mg/L		0.00079	-0.0008 mg/L	0.00079	95.83%
Al 396.153†	277368.0	64.75 mg/L		0.129	64.75 mg/L	0.129	0.20%
As 188.979†	3.1	0.0375 mg/L		0.00494	0.0375 mg/L	0.00494	13.16%
B 208.889†	91.4	0.0133 mg/L		0.00078	0.0133 mg/L	0.00078	5.89%
Ba 233.527†	3877.3	0.3398 mg/L		0.00486	0.3398 mg/L	0.00486	1.43%
Be 313.107†	1964.1	0.0028 mg/L		0.00004	0.0028 mg/L	0.00004	1.60%
Ca 317.933†	231300.0	17.19 mg/L		0.068	17.19 mg/L	0.068	0.40%
Cd 228.802†	2662.9	0.1070 mg/L		0.00058	0.1070 mg/L	0.00058	0.54%
Co 228.616†	1516.0	0.0561 mg/L		0.00109	0.0561 mg/L	0.00109	1.94%
Cr 267.716†	20044.3	0.4236 mg/L		0.00336	0.4236 mg/L	0.00336	0.79%
Cu 327.393†	19436.0	0.3577 mg/L		0.00371	0.3577 mg/L	0.00371	1.04%
Fe 238.204†	2155232.4	268.9 mg/L		0.61	268.9 mg/L	0.61	0.23%
K 766.490†	57292.0	10.22 mg/L		0.017	10.22 mg/L	0.017	0.17%
Mg 285.213†	410115.2	31.04 mg/L		0.075	31.04 mg/L	0.075	0.24%
Mn 257.610†	128686.6	3.134 mg/L		0.0089	3.134 mg/L	0.0089	0.28%
Mo 202.031†	341.8	0.0203 mg/L		0.00050	0.0203 mg/L	0.00050	2.44%
Na 589.592†	8080.9	0.7903 mg/L		0.02007	0.7903 mg/L	0.02007	2.54%
Ni 231.604†	3724.4	0.1129 mg/L		0.00060	0.1129 mg/L	0.00060	0.54%
Pb 220.353†	855.0	0.1377 mg/L		0.00106	0.1377 mg/L	0.00106	0.77%
Sb 206.836†	31.4	0.0113 mg/L		0.00431	0.0113 mg/L	0.00431	38.24%
Se 196.026†	-167.5	0.0762 mg/L		0.00712	0.0762 mg/L	0.00712	9.35%
Sn 189.927†	231.8	0.0444 mg/L		0.00150	0.0444 mg/L	0.00150	3.37%
Ti 337.279†	191036.1	5.573 mg/L		0.0079	5.573 mg/L	0.0079	0.14%
Tl 351.924†	-49.2	0.0116 mg/L		0.00774	0.0116 mg/L	0.00774	66.57%
V 290.880†	11683.7	0.1505 mg/L		0.00388	0.1505 mg/L	0.00388	2.58%
Zn 206.200†	22465.6	0.4224 mg/L		0.00373	0.4224 mg/L	0.00373	0.88%
Zr 343.823†	4563.2	0.0203 mg/L		0.00076	0.0203 mg/L	0.00076	3.76%

Batch ID: AVIO 500

Sequence No.: 33

Sample ID: 24D0729-19

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 41

Date Collected: 4/11/2024 3:55:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-19

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	172681.5	75.8	%	0.37	75.8	%	0.37	0.49%
Y axial	1720692.8	86.4	%	1.19	86.4	%	1.19	1.38%
Ag 328.068†	-37.0	0.0010	mg/L	0.00025	0.0010	mg/L	0.00025	25.33%
Al 396.153†	78464.4	18.32	mg/L	0.106	18.32	mg/L	0.106	0.58%
As 188.979†	0.7	0.0126	mg/L	0.00313	0.0126	mg/L	0.00313	24.79%
B 208.889†	48.2	0.0073	mg/L	0.00131	0.0073	mg/L	0.00131	18.03%
Ba 233.527†	807.6	0.0708	mg/L	0.00107	0.0708	mg/L	0.00107	1.52%
Be 313.107†	640.3	0.0009	mg/L	0.00006	0.0009	mg/L	0.00006	7.08%
Ca 317.933†	34378.8	2.555	mg/L	0.0180	2.555	mg/L	0.0180	0.70%
Cd 228.802†	29.1	0.0012	mg/L	0.00058	0.0012	mg/L	0.00058	48.03%
Co 228.616†	229.6	0.0083	mg/L	0.00043	0.0083	mg/L	0.00043	5.17%
Cr 267.716†	3496.0	0.0753	mg/L	0.00115	0.0753	mg/L	0.00115	1.53%
Cu 327.393†	3725.2	0.0686	mg/L	0.00177	0.0686	mg/L	0.00177	2.58%
Fe 238.204†	769664.4	96.04	mg/L	0.744	96.04	mg/L	0.744	0.77%
K 766.490†	7767.4	1.386	mg/L	0.0171	1.386	mg/L	0.0171	1.23%
Mg 285.213†	60552.4	4.623	mg/L	0.0296	4.623	mg/L	0.0296	0.64%
Mn 257.610†	13676.5	0.3349	mg/L	0.00247	0.3349	mg/L	0.00247	0.74%
Mo 202.031†	96.1	0.0057	mg/L	0.00034	0.0057	mg/L	0.00034	5.89%
Na 589.592†	3165.5	0.3096	mg/L	0.01400	0.3096	mg/L	0.01400	4.52%
Ni 231.604†	603.9	0.0210	mg/L	0.00033	0.0210	mg/L	0.00033	1.55%
Pb 220.353†	561.7	0.0902	mg/L	0.00254	0.0902	mg/L	0.00254	2.82%
Sb 206.836†	14.8	0.0058	mg/L	0.00252	0.0058	mg/L	0.00252	43.52%
Se 196.026†	-53.9	0.0311	mg/L	0.00251	0.0311	mg/L	0.00251	8.06%
Sn 189.927†	300.5	0.0479	mg/L	0.00021	0.0479	mg/L	0.00021	0.44%
Ti 337.279†	33407.3	0.9745	mg/L	0.00655	0.9745	mg/L	0.00655	0.67%
Tl 351.924†	-48.1	-0.0115	mg/L	0.00694	-0.0115	mg/L	0.00694	60.42%
V 290.880†	4268.5	0.0545	mg/L	0.00103	0.0545	mg/L	0.00103	1.89%
Zn 206.200†	5143.6	0.0966	mg/L	0.00136	0.0966	mg/L	0.00136	1.41%
Zr 343.823†	2115.0	0.0107	mg/L	0.00028	0.0107	mg/L	0.00028	2.61%

Batch ID: AVIO 500

Sequence No.: 34

Sample ID: 24D0729-20

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 42

Date Collected: 4/11/2024 4:05:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-20

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	174439.3	76.6	%	0.57	76.6	%	0.57	0.74%
Y axial	1742777.7	87.5	%	1.09	87.5	%	1.09	1.25%
Ag 328.068†	-34.5	0.0005	mg/L	0.00140	0.0005	mg/L	0.00140	258.68%
Al 396.153†	104324.9	24.35	mg/L	0.064	24.35	mg/L	0.064	0.26%
As 188.979†	21.8	0.0228	mg/L	0.00297	0.0228	mg/L	0.00297	13.00%
B 208.889†	68.1	0.0103	mg/L	0.00164	0.0103	mg/L	0.00164	15.87%
Ba 233.527†	1820.8	0.1596	mg/L	0.00272	0.1596	mg/L	0.00272	1.70%
Be 313.107†	603.9	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	4.09%
Ca 317.933†	91601.2	6.807	mg/L	0.0308	6.807	mg/L	0.0308	0.45%
Cd 228.802†	154.5	0.0059	mg/L	0.00056	0.0059	mg/L	0.00056	9.42%
Co 228.616†	502.5	0.0205	mg/L	0.00059	0.0205	mg/L	0.00059	2.87%
Cr 267.716†	5300.5	0.1111	mg/L	0.00218	0.1111	mg/L	0.00218	1.96%
Cu 327.393†	5744.3	0.1054	mg/L	0.00336	0.1054	mg/L	0.00336	3.19%
Fe 238.204†	562213.7	70.15	mg/L	0.190	70.15	mg/L	0.190	0.27%
K 766.490†	10429.5	1.861	mg/L	0.0503	1.861	mg/L	0.0503	2.70%
Mg 285.213†	93106.7	7.053	mg/L	0.0068	7.053	mg/L	0.0068	0.10%
Mn 257.610†	114693.2	2.789	mg/L	0.0027	2.789	mg/L	0.0027	0.10%
Mo 202.031†	126.8	0.0075	mg/L	0.00085	0.0075	mg/L	0.00085	11.21%
Na 589.592†	4559.2	0.4459	mg/L	0.00913	0.4459	mg/L	0.00913	2.05%
Ni 231.604†	1047.3	0.0312	mg/L	0.00036	0.0312	mg/L	0.00036	1.14%
Pb 220.353†	1257.1	0.2042	mg/L	0.00374	0.2042	mg/L	0.00374	1.83%
Sb 206.836†	11.7	0.0039	mg/L	0.00220	0.0039	mg/L	0.00220	56.14%
Se 196.026†	-33.3	0.0244	mg/L	0.00113	0.0244	mg/L	0.00113	4.63%
Sn 189.927†	269.1	0.0430	mg/L	0.00129	0.0430	mg/L	0.00129	3.00%
Ti 337.279†	32651.6	0.9525	mg/L	0.00986	0.9525	mg/L	0.00986	1.03%

Mean Corrected		Calib.		Sample				
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	198627.5	87.2	%	1.53	87.2	%	1.53	1.75%
Y axial	1913135.6	96.0	%	0.23	96.0	%	0.23	0.24%
Ag 328.068†	69013.4	2.103	mg/L	0.0579	2.103	mg/L	0.0579	2.75%
QC value	less than the lower limit	for Ag 328.068	Recovery = 84.10%					
Al 396.153†	43863.8	9.862	mg/L	0.0461	9.862	mg/L	0.0461	0.47%
QC value	within limits	for Al 396.153	Recovery = 98.62%					
As 188.979†	8474.3	5.372	mg/L	0.0521	5.372	mg/L	0.0521	0.97%
QC value	within limits	for As 188.979	Recovery = 107.44%					
B 208.889†	31412.2	4.663	mg/L	0.0578	4.663	mg/L	0.0578	1.24%
QC value	within limits	for B 208.889	Recovery = 93.25%					
Ba 233.527†	51964.4	4.555	mg/L	0.0772	4.555	mg/L	0.0772	1.69%
QC value	within limits	for Ba 233.527	Recovery = 91.09%					
Be 313.107†	2763075.3	4.690	mg/L	0.0742	4.690	mg/L	0.0742	1.58%
QC value	within limits	for Be 313.107	Recovery = 93.81%					
Ca 317.933†	134589.1	10.00	mg/L	0.042	10.00	mg/L	0.042	0.42%
QC value	within limits	for Ca 317.933	Recovery = 100.02%					
Cd 228.802†	130667.8	5.104	mg/L	0.0150	5.104	mg/L	0.0150	0.29%
QC value	within limits	for Cd 228.802	Recovery = 102.09%					
Co 228.616†	117037.8	5.173	mg/L	0.0189	5.173	mg/L	0.0189	0.37%
QC value	within limits	for Co 228.616	Recovery = 103.46%					
Cr 267.716†	248615.4	5.188	mg/L	0.0114	5.188	mg/L	0.0114	0.22%
QC value	within limits	for Cr 267.716	Recovery = 103.76%					
Cu 327.393†	270071.4	4.950	mg/L	0.0066	4.950	mg/L	0.0066	0.13%
QC value	within limits	for Cu 327.393	Recovery = 99.00%					
Fe 238.204†	38730.7	4.896	mg/L	0.0122	4.896	mg/L	0.0122	0.25%
QC value	within limits	for Fe 238.204	Recovery = 97.91%					
K 766.490†	53214.8	9.494	mg/L	0.0149	9.494	mg/L	0.0149	0.16%
QC value	within limits	for K 766.490	Recovery = 94.94%					
Mg 285.213†	127487.6	9.575	mg/L	0.0105	9.575	mg/L	0.0105	0.11%
QC value	within limits	for Mg 285.213	Recovery = 95.75%					
Mn 257.610†	199556.6	4.849	mg/L	0.0111	4.849	mg/L	0.0111	0.23%
QC value	within limits	for Mn 257.610	Recovery = 96.99%					
Mo 202.031†	87005.3	5.175	mg/L	0.0163	5.175	mg/L	0.0163	0.31%
QC value	within limits	for Mo 202.031	Recovery = 103.51%					
Na 589.592†	100431.2	9.821	mg/L	0.0111	9.821	mg/L	0.0111	0.11%
QC value	within limits	for Na 589.592	Recovery = 98.21%					
Ni 231.604†	197126.8	5.277	mg/L	0.0130	5.277	mg/L	0.0130	0.25%
QC value	within limits	for Ni 231.604	Recovery = 105.53%					
Pb 220.353†	30664.2	4.986	mg/L	0.0666	4.986	mg/L	0.0666	1.34%
QC value	within limits	for Pb 220.353	Recovery = 99.73%					
Sb 206.836†	12607.4	5.077	mg/L	0.0729	5.077	mg/L	0.0729	1.44%
QC value	within limits	for Sb 206.836	Recovery = 101.53%					
Se 196.026†	9205.5	5.243	mg/L	0.0882	5.243	mg/L	0.0882	1.68%
QC value	within limits	for Se 196.026	Recovery = 104.87%					
Sn 189.927†	34788.9	5.374	mg/L	0.0778	5.374	mg/L	0.0778	1.45%
QC value	within limits	for Sn 189.927	Recovery = 107.48%					
Ti 337.279†	166158.8	4.845	mg/L	0.0085	4.845	mg/L	0.0085	0.18%
QC value	within limits	for Ti 337.279	Recovery = 96.90%					
Tl 351.924†	4946.0	2.961	mg/L	0.0632	2.961	mg/L	0.0632	2.13%
QC value	greater than the upper limit	for Tl 351.924	Recovery = 118.44%					
V 290.880†	364006.5	5.132	mg/L	0.0067	5.132	mg/L	0.0067	0.13%
QC value	within limits	for V 290.880	Recovery = 102.63%					

Zn 206.200† 293600.9 5.518 mg/L 0.0220 5.518 mg/L 0.0220 0.40%
 QC value greater than the upper limit for Zn 206.200 Recovery = 110.36%
 Zr 343.823† 776180.9 5.417 mg/L 0.0032 5.417 mg/L 0.0032 0.06%
 QC value within limits for Zr 343.823 Recovery = 108.33%
 QC Failed. Continue with analysis.

Batch ID: AVIO 500

Sequence No.: 36

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 4:22:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	202056.3	88.7 %	0.82	88.7 %	0.82	0.92%
Y axial	1968232.7	98.8 %	0.47	98.8 %	0.47	0.47%
Ag 328.068†	102.7	0.0031 mg/L	0.00135	0.0031 mg/L	0.00135	42.99%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	3.0	0.0006 mg/L	0.00563	0.0006 mg/L	0.00563	958.40%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	7.6	0.0049 mg/L	0.00576	0.0049 mg/L	0.00576	118.52%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	22.3	0.0034 mg/L	0.00145	0.0034 mg/L	0.00145	42.43%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	8.0	0.0007 mg/L	0.00037	0.0007 mg/L	0.00037	52.54%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-138.5	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006	23.46%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	33.5	0.0025 mg/L	0.00124	0.0025 mg/L	0.00124	49.95%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-5.1	-0.0003 mg/L	0.00046	-0.0003 mg/L	0.00046	135.01%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-17.5	-0.0008 mg/L	0.00036	-0.0008 mg/L	0.00036	46.41%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	12.0	0.0003 mg/L	0.00038	0.0003 mg/L	0.00038	149.21%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-91.3	-0.0017 mg/L	0.00120	-0.0017 mg/L	0.00120	72.44%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	41.5	0.0052 mg/L	0.00087	0.0052 mg/L	0.00087	16.81%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	-723.0	-0.1290 mg/L	0.00184	-0.1290 mg/L	0.00184	1.43%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-17.2	-0.0013 mg/L	0.00055	-0.0013 mg/L	0.00055	43.02%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-19.2	-0.0005 mg/L	0.00027	-0.0005 mg/L	0.00027	57.21%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	31.1	0.0018 mg/L	0.00057	0.0018 mg/L	0.00057	31.02%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-607.6	-0.0594 mg/L	0.00253	-0.0594 mg/L	0.00253	4.25%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-34.5	-0.0009 mg/L	0.00028	-0.0009 mg/L	0.00028	30.65%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	2.8	0.0005 mg/L	0.00085	0.0005 mg/L	0.00085	184.83%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	3.6	0.0015 mg/L	0.00253	0.0015 mg/L	0.00253	169.87%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.8	0.0016 mg/L	0.00294	0.0016 mg/L	0.00294	181.31%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	5.2	0.0008 mg/L	0.00031	0.0008 mg/L	0.00031	38.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-61.6	-0.0018 mg/L	0.00002	-0.0018 mg/L	0.00002	0.85%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	4.0	0.0023 mg/L	0.00252	0.0023 mg/L	0.00252	107.85%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	66.5	0.0009 mg/L	0.00048	0.0009 mg/L	0.00048	51.76%

QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 5.6 0.0001 mg/L 0.00014 0.0001 mg/L 0.00014 123.19%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 39.2 0.0003 mg/L 0.00074 0.0003 mg/L 0.00074 270.76%
 All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 37

Sample ID: 24D0735-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 43

Date Collected: 4/11/2024 4:30:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	185654.0	81.5 %		1.11	81.5 %	1.11	1.36%
Y axial	1800346.9	90.4 %		0.89	90.4 %	0.89	0.99%
Ag 328.068†	13.7	0.0028 mg/L		0.00180	0.0028 mg/L	0.00180	63.05%
Al 396.153†	114353.1	26.69 mg/L		0.078	26.69 mg/L	0.078	0.29%
As 188.979†	14.8	0.0220 mg/L		0.00158	0.0220 mg/L	0.00158	7.19%
B 208.889†	80.4	0.0123 mg/L		0.00019	0.0123 mg/L	0.00019	1.56%
Ba 233.527†	1248.0	0.1094 mg/L		0.00134	0.1094 mg/L	0.00134	1.23%
Be 313.107†	1054.9	0.0013 mg/L		0.00009	0.0013 mg/L	0.00009	6.80%
Ca 317.933†	82014.6	6.095 mg/L		0.0093	6.095 mg/L	0.0093	0.15%
Cd 228.802†	54.1	0.0020 mg/L		0.00034	0.0020 mg/L	0.00034	16.86%
Co 228.616†	567.3	0.0221 mg/L		0.00074	0.0221 mg/L	0.00074	3.35%
Cr 267.716†	2911.6	0.0626 mg/L		0.00088	0.0626 mg/L	0.00088	1.40%
Cu 327.393†	6774.3	0.1246 mg/L		0.00158	0.1246 mg/L	0.00158	1.27%
Fe 238.204†	771741.8	96.30 mg/L		0.035	96.30 mg/L	0.035	0.04%
K 766.490†	8546.1	1.525 mg/L		0.0272	1.525 mg/L	0.0272	1.78%
Mg 285.213†	102445.9	7.774 mg/L		0.0306	7.774 mg/L	0.0306	0.39%
Mn 257.610†	61475.8	1.496 mg/L		0.0020	1.496 mg/L	0.0020	0.13%
Mo 202.031†	118.5	0.0071 mg/L		0.00114	0.0071 mg/L	0.00114	16.24%
Na 589.592†	8071.2	0.7893 mg/L		0.00330	0.7893 mg/L	0.00330	0.42%
Ni 231.604†	1552.2	0.0463 mg/L		0.00005	0.0463 mg/L	0.00005	0.10%
Pb 220.353†	818.5	0.1327 mg/L		0.00225	0.1327 mg/L	0.00225	1.70%
Sb 206.836†	14.2	0.0064 mg/L		0.00031	0.0064 mg/L	0.00031	4.78%
Se 196.026†	-55.7	0.0295 mg/L		0.00693	0.0295 mg/L	0.00693	23.51%
Sn 189.927†	295.6	0.0480 mg/L		0.00092	0.0480 mg/L	0.00092	1.91%
Ti 337.279†	52374.2	1.528 mg/L		0.0043	1.528 mg/L	0.0043	0.28%
Tl 351.924†	-37.5	-0.0063 mg/L		0.01031	-0.0063 mg/L	0.01031	163.26%
V 290.880†	9572.7	0.1295 mg/L		0.00250	0.1295 mg/L	0.00250	1.93%
Zn 206.200†	14437.4	0.2704 mg/L		0.00338	0.2704 mg/L	0.00338	1.25%
Zr 343.823†	3897.9	0.0231 mg/L		0.00109	0.0231 mg/L	0.00109	4.73%

Batch ID: AVIO 500

Sequence No.: 38

Sample ID: 24D0735-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 44

Date Collected: 4/11/2024 4:40:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	181233.5	79.6 %		0.77	79.6 %	0.77	0.97%
Y axial	1795812.3	90.1 %		0.75	90.1 %	0.75	0.83%
Ag 328.068†	14.8	0.0030 mg/L		0.00021	0.0030 mg/L	0.00021	6.89%
Al 396.153†	106119.0	24.76 mg/L		0.111	24.76 mg/L	0.111	0.45%
As 188.979†	18.7	0.0188 mg/L		0.00538	0.0188 mg/L	0.00538	28.53%
B 208.889†	101.1	0.0153 mg/L		0.00163	0.0153 mg/L	0.00163	10.66%
Ba 233.527†	1613.9	0.1415 mg/L		0.00133	0.1415 mg/L	0.00133	0.94%
Be 313.107†	912.9	0.0012 mg/L		0.00002	0.0012 mg/L	0.00002	1.76%

Ca 317.933†	482902.1	35.89 mg/L	0.154	35.89 mg/L	0.154	0.43%
Cd 228.802†	6949.6	0.2783 mg/L	0.00141	0.2783 mg/L	0.00141	0.51%
Co 228.616†	509.5	0.0196 mg/L	0.00094	0.0196 mg/L	0.00094	4.80%
Cr 267.716†	7791.5	0.1636 mg/L	0.00094	0.1636 mg/L	0.00094	0.57%
Cu 327.393†	5714.9	0.1058 mg/L	0.00069	0.1058 mg/L	0.00069	0.65%
Fe 238.204†	413588.9	51.61 mg/L	0.169	51.61 mg/L	0.169	0.33%
K 766.490†	16732.6	2.985 mg/L	0.0360	2.985 mg/L	0.0360	1.21%
Mg 285.213†	299189.1	22.54 mg/L	0.094	22.54 mg/L	0.094	0.42%
Mn 257.610†	22788.8	0.5552 mg/L	0.00623	0.5552 mg/L	0.00623	1.12%
Mo 202.031†	203.7	0.0121 mg/L	0.00096	0.0121 mg/L	0.00096	7.96%
Na 589.592†	7322.6	0.7161 mg/L	0.00277	0.7161 mg/L	0.00277	0.39%
Ni 231.604†	1663.4	0.0471 mg/L	0.00026	0.0471 mg/L	0.00026	0.56%
Pb 220.353†	452.2	0.0745 mg/L	0.00140	0.0745 mg/L	0.00140	1.88%
Sb 206.836†	20.2	0.0071 mg/L	0.00270	0.0071 mg/L	0.00270	38.01%
Se 196.026†	-26.7	0.0178 mg/L	0.00478	0.0178 mg/L	0.00478	26.88%
Sn 189.927†	237.0	0.0389 mg/L	0.00060	0.0389 mg/L	0.00060	1.53%
Ti 337.279†	52261.8	1.525 mg/L	0.0108	1.525 mg/L	0.0108	0.71%
Tl 351.924†	-31.0	-0.0111 mg/L	0.00526	-0.0111 mg/L	0.00526	47.30%
V 290.880†	7291.7	0.1018 mg/L	0.00160	0.1018 mg/L	0.00160	1.57%
Zn 206.200†	25025.6	0.4690 mg/L	0.00747	0.4690 mg/L	0.00747	1.59%
Zr 343.823†	3145.0	0.0197 mg/L	0.00097	0.0197 mg/L	0.00097	4.90%

Batch ID: AVIO 500
Sequence No.: 39
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 7
Date Collected: 4/11/2024 4:50:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	208614.1	91.6 %	%	0.73	91.6 %	0.73	0.80%
Y axial	2051779.1	103 %	%	0.59	103 %	0.59	0.57%
Ag 328.068†	21.2	0.0006 mg/L	mg/L	0.00107	0.0006 mg/L	0.00107	165.32%
Al 396.153†	24.2	0.0056 mg/L	mg/L	0.00238	0.0056 mg/L	0.00238	42.75%
As 188.979†	2.3	0.0014 mg/L	mg/L	0.00146	0.0014 mg/L	0.00146	101.24%
B 208.889†	-12.0	-0.0020 mg/L	mg/L	0.00136	-0.0020 mg/L	0.00136	69.46%
Ba 233.527†	1.7	0.0001 mg/L	mg/L	0.00002	0.0001 mg/L	0.00002	12.88%
Be 313.107†	-218.5	-0.0004 mg/L	mg/L	0.00005	-0.0004 mg/L	0.00005	14.26%
Ca 317.933†	142.1	0.0106 mg/L	mg/L	0.00145	0.0106 mg/L	0.00145	13.73%
Cd 228.802†	-15.2	-0.0007 mg/L	mg/L	0.00034	-0.0007 mg/L	0.00034	51.19%
Co 228.616†	-23.4	-0.0010 mg/L	mg/L	0.00058	-0.0010 mg/L	0.00058	56.37%
Cr 267.716†	17.7	0.0004 mg/L	mg/L	0.00014	0.0004 mg/L	0.00014	36.72%
Cu 327.393†	-169.7	-0.0031 mg/L	mg/L	0.00107	-0.0031 mg/L	0.00107	34.63%
Fe 238.204†	125.2	0.0156 mg/L	mg/L	0.00066	0.0156 mg/L	0.00066	4.22%
K 766.490†	-560.8	-0.1001 mg/L	mg/L	0.01405	-0.1001 mg/L	0.01405	14.04%
Mg 285.213†	9.9	0.0008 mg/L	mg/L	0.00049	0.0008 mg/L	0.00049	65.48%
Mn 257.610†	-21.8	-0.0005 mg/L	mg/L	0.00022	-0.0005 mg/L	0.00022	42.25%
Mo 202.031†	19.0	0.0011 mg/L	mg/L	0.00009	0.0011 mg/L	0.00009	8.01%
Na 589.592†	-806.6	-0.0789 mg/L	mg/L	0.00881	-0.0789 mg/L	0.00881	11.17%
Ni 231.604†	-24.2	-0.0006 mg/L	mg/L	0.00050	-0.0006 mg/L	0.00050	77.73%
Pb 220.353†	-0.6	-0.0001 mg/L	mg/L	0.00128	-0.0001 mg/L	0.00128	>999.9%
Sb 206.836†	-0.3	-0.0001 mg/L	mg/L	0.00296	-0.0001 mg/L	0.00296	>999.9%
Se 196.026†	2.2	0.0013 mg/L	mg/L	0.00582	0.0013 mg/L	0.00582	463.34%
Sn 189.927†	5.0	0.0008 mg/L	mg/L	0.00042	0.0008 mg/L	0.00042	55.32%
Ti 337.279†	-24.9	-0.0007 mg/L	mg/L	0.00092	-0.0007 mg/L	0.00092	126.98%
Tl 351.924†	-0.4	-0.0002 mg/L	mg/L	0.01077	-0.0002 mg/L	0.01077	>999.9%
V 290.880†	41.5	0.0006 mg/L	mg/L	0.00029	0.0006 mg/L	0.00029	50.22%
Zn 206.200†	-49.7	-0.0009 mg/L	mg/L	0.00015	-0.0009 mg/L	0.00015	16.64%
Zr 343.823†	36.6	0.0003 mg/L	mg/L	0.00017	0.0003 mg/L	0.00017	68.35%

Batch ID: AVIO 500
Sequence No.: 40
Sample ID: SEQ-IFA@ 23I0975
Analyst:

Autosampler Location: 11
Date Collected: 4/11/2024 4:58:26 PM
Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 100

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	185740.1	81.6 %	0.30	81.6 %	0.30	0.37%
Y axial	1966887.5	98.7 %	24.05	98.7 %	24.05	24.36%
Ag 328.068†	-16.6	0.0094 mg/L	0.00081	0.0094 mg/L	0.00081	8.61%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	1064503.5	248.5 mg/L	1.27	248.5 mg/L	1.27	0.51%
QC value within limits for Al 396.153	Recovery = 99.38%					
As 188.979†	-7.6	0.0066 mg/L	0.00523	0.0066 mg/L	0.00523	79.40%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	-15.2	-0.0035 mg/L	0.00125	-0.0035 mg/L	0.00125	35.82%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	82.8	0.0073 mg/L	0.00176	0.0073 mg/L	0.00176	24.22%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	137.3	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	16.00%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	3255668.7	241.9 mg/L	1.29	241.9 mg/L	1.29	0.53%
QC value within limits for Ca 317.933	Recovery = 96.78%					
Cd 228.802†	-16.7	-0.0005 mg/L	0.00048	-0.0005 mg/L	0.00048	89.19%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-27.3	-0.0012 mg/L	0.00101	-0.0012 mg/L	0.00101	85.30%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	135.9	0.0052 mg/L	0.00313	0.0052 mg/L	0.00313	59.73%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-461.4	-0.0040 mg/L	0.00588	-0.0040 mg/L	0.00588	146.28%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	758301.4	94.62 mg/L	0.480	94.62 mg/L	0.480	0.51%
QC value within limits for Fe 238.204	Recovery = 94.62%					
K 766.490†	-466.3	-0.0832 mg/L	0.01021	-0.0832 mg/L	0.01021	12.27%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	2979489.1	224.2 mg/L	1.25	224.2 mg/L	1.25	0.56%
QC value within limits for Mg 285.213	Recovery = 89.66%					
Mn 257.610†	-269.0	-0.0040 mg/L	0.00016	-0.0040 mg/L	0.00016	4.12%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	321.7	0.0191 mg/L	0.01754	0.0191 mg/L	0.01754	91.67%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-120.1	-0.0117 mg/L	0.00905	-0.0117 mg/L	0.00905	77.07%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-156.3	0.0006 mg/L	0.00493	0.0006 mg/L	0.00493	804.91%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-60.2	0.0124 mg/L	0.00866	0.0124 mg/L	0.00866	69.58%
QC value greater than the upper limit for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-1.2	-0.0002 mg/L	0.00645	-0.0002 mg/L	0.00645	>999.9%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-35.1	0.0412 mg/L	0.02234	0.0412 mg/L	0.02234	54.25%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-26.8	-0.0041 mg/L	0.00359	-0.0041 mg/L	0.00359	86.84%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-78.2	-0.0023 mg/L	0.00070	-0.0023 mg/L	0.00070	30.47%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-24.2	0.0042 mg/L	0.00798	0.0042 mg/L	0.00798	188.50%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	-1044.8	0.0021 mg/L	0.00771	0.0021 mg/L	0.00771	363.34%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	-56.5	-0.0010 mg/L	0.00105	-0.0010 mg/L	0.00105	100.54%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	400.2	-0.0013 mg/L	0.00201	-0.0013 mg/L	0.00201	159.95%
QC Failed. Continue with analysis.						

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Batch ID: AVIO 500

Sequence No.: 41

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Autosampler Location: 12

Date Collected: 4/11/2024 5:06:31 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 100

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190497.0	83.7 %	1.34	83.7 %	1.34	1.61%
Y axial	1694710.6	85.1 %	0.18	85.1 %	0.18	0.21%
Ag 328.068†	12699.5	0.4032 mg/L	0.00634	0.4032 mg/L	0.00634	1.57%
QC value within limits for Ag 328.068		Recovery = 100.80%				
Al 396.153†	1048785.6	244.8 mg/L	0.60	244.8 mg/L	0.60	0.24%
QC value within limits for Al 396.153		Recovery = 97.91%				
As 188.979†	313.1	0.2091 mg/L	0.00301	0.2091 mg/L	0.00301	1.44%
QC value within limits for As 188.979		Recovery = 104.56%				
B 208.889†	-3.4	-0.0026 mg/L	0.00235	-0.0026 mg/L	0.00235	91.16%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	10817.8	0.9482 mg/L	0.01511	0.9482 mg/L	0.01511	1.59%
QC value within limits for Ba 233.527		Recovery = 94.82%				
Be 313.107†	560865.1	0.9522 mg/L	0.00245	0.9522 mg/L	0.00245	0.26%
QC value within limits for Be 313.107		Recovery = 95.22%				
Ca 317.933†	3216208.8	239.0 mg/L	0.96	239.0 mg/L	0.96	0.40%
QC value within limits for Ca 317.933		Recovery = 95.60%				
Cd 228.802†	50500.0	2.021 mg/L	0.0183	2.021 mg/L	0.0183	0.91%
QC value within limits for Cd 228.802		Recovery = 101.07%				
Co 228.616†	20493.3	0.9069 mg/L	0.00752	0.9069 mg/L	0.00752	0.83%
QC value within limits for Co 228.616		Recovery = 90.69%				
Cr 267.716†	47379.7	0.9908 mg/L	0.00230	0.9908 mg/L	0.00230	0.23%
QC value within limits for Cr 267.716		Recovery = 99.08%				
Cu 327.393†	49628.7	0.9083 mg/L	0.00398	0.9083 mg/L	0.00398	0.44%
QC value within limits for Cu 327.393		Recovery = 90.83%				
Fe 238.204†	754447.1	94.15 mg/L	0.336	94.15 mg/L	0.336	0.36%
QC value within limits for Fe 238.204		Recovery = 94.15%				
K 766.490†	-476.3	-0.0850 mg/L	0.00906	-0.0850 mg/L	0.00906	10.66%
QC value within limits for K 766.490		Recovery = Not calculated				
Mg 285.213†	2955567.7	222.4 mg/L	0.68	222.4 mg/L	0.68	0.30%
QC value within limits for Mg 285.213		Recovery = 88.95%				
Mn 257.610†	38000.8	0.9260 mg/L	0.01222	0.9260 mg/L	0.01222	1.32%
QC value within limits for Mn 257.610		Recovery = 92.60%				
Mo 202.031†	600.8	0.0357 mg/L	0.00098	0.0357 mg/L	0.00098	2.74%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592†	-101.6	-0.0099 mg/L	0.01026	-0.0099 mg/L	0.01026	103.23%
QC value within limits for Na 589.592		Recovery = Not calculated				
Ni 231.604†	67619.8	1.816 mg/L	0.0027	1.816 mg/L	0.0027	0.15%
QC value within limits for Ni 231.604		Recovery = 90.79%				
Pb 220.353†	482.9	0.0993 mg/L	0.00010	0.0993 mg/L	0.00010	0.10%
QC value within limits for Pb 220.353		Recovery = 99.30%				
Sb 206.836†	2750.1	1.089 mg/L	0.0167	1.089 mg/L	0.0167	1.53%
QC value within limits for Sb 206.836		Recovery = 90.77%				
Se 196.026†	870.3	0.5559 mg/L	0.00908	0.5559 mg/L	0.00908	1.63%
QC value within limits for Se 196.026		Recovery = 111.18%				
Sn 189.927†	-46.2	-0.0071 mg/L	0.00082	-0.0071 mg/L	0.00082	11.56%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 337.279†	-20.8	-0.0006 mg/L	0.00114	-0.0006 mg/L	0.00114	186.71%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 351.924†	360.8	0.2277 mg/L	0.01157	0.2277 mg/L	0.01157	5.08%
QC value within limits for Tl 351.924		Recovery = 113.84%				
V 290.880†	68490.8	0.9820 mg/L	0.00342	0.9820 mg/L	0.00342	0.35%
QC value within limits for V 290.880		Recovery = 98.20%				
Zn 206.200†	103760.3	1.946 mg/L	0.0079	1.946 mg/L	0.0079	0.40%
QC value within limits for Zn 206.200		Recovery = 97.32%				
Zr 343.823†	602.3	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	23.38%

All analyte(s) passed QC.

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Batch ID: AVIO 500

Sequence No.: 42

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Autosampler Location: 5

Date Collected: 4/11/2024 5:15:17 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

see rerun- JLC 04/12/24

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	203600.7	89.4 %	0.39	89.4 %	0.39	0.43%
Y axial	1905223.1	95.6 %	1.04	95.6 %	1.04	1.09%
Ag 328.068†	63805.6	1.945 mg/L	0.0888	1.945 mg/L	0.0888	4.57%
QC value less than the lower limit for Ag 328.068 Recovery = 77.79%						
Al 396.153†	43303.0	9.741 mg/L	0.0502	9.741 mg/L	0.0502	0.52%
QC value within limits for Al 396.153 Recovery = 97.41%						
As 188.979†	8081.7	5.122 mg/L	0.0855	5.122 mg/L	0.0855	1.67%
QC value within limits for As 188.979 Recovery = 102.44%						
B 208.889†	30686.4	4.553 mg/L	0.0648	4.553 mg/L	0.0648	1.42%
QC value within limits for B 208.889 Recovery = 91.07%						
Ba 233.527†	52523.1	4.604 mg/L	0.0896	4.604 mg/L	0.0896	1.95%
QC value within limits for Ba 233.527 Recovery = 92.07%						
Be 313.107†	2819408.7	4.787 mg/L	0.0385	4.787 mg/L	0.0385	0.80%
QC value within limits for Be 313.107 Recovery = 95.74%						
Ca 317.933†	133147.0	9.895 mg/L	0.0489	9.895 mg/L	0.0489	0.49%
QC value within limits for Ca 317.933 Recovery = 98.95%						
Cd 228.802†	128010.4	5.005 mg/L	0.0064	5.005 mg/L	0.0064	0.13%
QC value within limits for Cd 228.802 Recovery = 100.10%						
Co 228.616†	115981.4	5.126 mg/L	0.0022	5.126 mg/L	0.0022	0.04%
QC value within limits for Co 228.616 Recovery = 102.53%						
Cr 267.716†	244698.4	5.106 mg/L	0.0053	5.106 mg/L	0.0053	0.10%
QC value within limits for Cr 267.716 Recovery = 102.12%						
Cu 327.393†	269351.0	4.935 mg/L	0.0082	4.935 mg/L	0.0082	0.17%
QC value within limits for Cu 327.393 Recovery = 98.70%						
Fe 238.204†	38336.9	4.846 mg/L	0.0292	4.846 mg/L	0.0292	0.60%
QC value within limits for Fe 238.204 Recovery = 96.92%						
K 766.490†	54895.1	9.794 mg/L	0.0610	9.794 mg/L	0.0610	0.62%
QC value within limits for K 766.490 Recovery = 97.94%						
Mg 285.213†	126722.9	9.519 mg/L	0.0469	9.519 mg/L	0.0469	0.49%
QC value within limits for Mg 285.213 Recovery = 95.19%						
Mn 257.610†	200831.1	4.880 mg/L	0.0305	4.880 mg/L	0.0305	0.63%
QC value within limits for Mn 257.610 Recovery = 97.61%						
Mo 202.031†	85404.0	5.080 mg/L	0.0154	5.080 mg/L	0.0154	0.30%
QC value within limits for Mo 202.031 Recovery = 101.60%						
Na 589.592†	100406.6	9.819 mg/L	0.0386	9.819 mg/L	0.0386	0.39%
QC value within limits for Na 589.592 Recovery = 98.19%						
Ni 231.604†	193331.6	5.175 mg/L	0.0055	5.175 mg/L	0.0055	0.11%
QC value within limits for Ni 231.604 Recovery = 103.50%						
Pb 220.353†	31404.0	5.106 mg/L	0.0550	5.106 mg/L	0.0550	1.08%
QC value within limits for Pb 220.353 Recovery = 102.12%						
Sb 206.836†	12438.4	5.008 mg/L	0.0583	5.008 mg/L	0.0583	1.16%
QC value within limits for Sb 206.836 Recovery = 100.17%						
Se 196.026†	9114.1	5.191 mg/L	0.0830	5.191 mg/L	0.0830	1.60%
QC value within limits for Se 196.026 Recovery = 103.82%						
Sn 189.927†	33817.5	5.224 mg/L	0.0629	5.224 mg/L	0.0629	1.21%
QC value within limits for Sn 189.927 Recovery = 104.48%						
Ti 337.279†	166427.1	4.853 mg/L	0.0277	4.853 mg/L	0.0277	0.57%
QC value within limits for Ti 337.279 Recovery = 97.05%						
Tl 351.924†	4627.0	2.770 mg/L	0.0437	2.770 mg/L	0.0437	1.58%
QC value greater than the upper limit for Tl 351.924 Recovery = 110.79%						
V 290.880†	357171.6	5.035 mg/L	0.0063	5.035 mg/L	0.0063	0.12%
QC value within limits for V 290.880 Recovery = 100.71%						
Zn 206.200†	286257.5	5.380 mg/L	0.0077	5.380 mg/L	0.0077	0.14%
QC value within limits for Zn 206.200 Recovery = 107.61%						
Zr 343.823†	732408.2	5.111 mg/L	0.0057	5.111 mg/L	0.0057	0.11%
QC value within limits for Zr 343.823 Recovery = 102.22%						
QC Failed. Retry.						

Batch ID: AVIO 500

Sequence No.: 43

Sample ID: SEQ-CCV@ 23J0975

Autosampler Location: 5

Date Collected: 4/11/2024 5:19:42 PM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	192525.7	84.5 %	0.70	84.5 %	0.70	0.83%
Y axial	1817227.7	91.2 %	1.11	91.2 %	1.11	1.22%
Ag 328.068†	63545.4	1.937 mg/L	0.0563	1.937 mg/L	0.0563	2.91%
QC value less than the lower limit for Ag 328.068 Recovery = 77.47%						
Al 396.153†	44569.9	10.04 mg/L	0.075	10.04 mg/L	0.075	0.75%
QC value within limits for Al 396.153 Recovery = 100.37%						
As 188.979†	8236.9	5.221 mg/L	0.1397	5.221 mg/L	0.1397	2.68%
QC value within limits for As 188.979 Recovery = 104.43%						
B 208.889†	31042.3	4.610 mg/L	0.0916	4.610 mg/L	0.0916	1.99%
QC value within limits for B 208.889 Recovery = 92.20%						
Ba 233.527†	52629.9	4.613 mg/L	0.1153	4.613 mg/L	0.1153	2.50%
QC value within limits for Ba 233.527 Recovery = 92.26%						
Be 313.107†	2777709.8	4.716 mg/L	0.0669	4.716 mg/L	0.0669	1.42%
QC value within limits for Be 313.107 Recovery = 94.32%						
Ca 317.933†	135196.9	10.05 mg/L	0.083	10.05 mg/L	0.083	0.83%
QC value within limits for Ca 317.933 Recovery = 100.47%						
Cd 228.802†	128537.9	5.023 mg/L	0.0191	5.023 mg/L	0.0191	0.38%
QC value within limits for Cd 228.802 Recovery = 100.46%						
Co 228.616†	115837.2	5.120 mg/L	0.0176	5.120 mg/L	0.0176	0.34%
QC value within limits for Co 228.616 Recovery = 102.40%						
Cr 267.716†	244543.3	5.103 mg/L	0.0201	5.103 mg/L	0.0201	0.39%
QC value within limits for Cr 267.716 Recovery = 102.06%						
Cu 327.393†	271017.5	4.966 mg/L	0.0217	4.966 mg/L	0.0217	0.44%
QC value within limits for Cu 327.393 Recovery = 99.31%						
Fe 238.204†	38500.3	4.866 mg/L	0.0413	4.866 mg/L	0.0413	0.85%
QC value within limits for Fe 238.204 Recovery = 97.33%						
K 766.490†	53652.6	9.573 mg/L	0.0726	9.573 mg/L	0.0726	0.76%
QC value within limits for K 766.490 Recovery = 95.73%						
Mg 285.213†	127547.6	9.581 mg/L	0.0540	9.581 mg/L	0.0540	0.56%
QC value within limits for Mg 285.213 Recovery = 95.81%						
Mn 257.610†	201483.9	4.896 mg/L	0.0315	4.896 mg/L	0.0315	0.64%
QC value within limits for Mn 257.610 Recovery = 97.92%						
Mo 202.031†	85256.6	5.071 mg/L	0.0181	5.071 mg/L	0.0181	0.36%
QC value within limits for Mo 202.031 Recovery = 101.43%						
Na 589.592†	100181.5	9.797 mg/L	0.0549	9.797 mg/L	0.0549	0.56%
QC value within limits for Na 589.592 Recovery = 97.97%						
Ni 231.604†	192860.2	5.162 mg/L	0.0216	5.162 mg/L	0.0216	0.42%
QC value within limits for Ni 231.604 Recovery = 103.25%						
Pb 220.353†	32091.9	5.218 mg/L	0.1192	5.218 mg/L	0.1192	2.28%
QC value within limits for Pb 220.353 Recovery = 104.35%						
Sb 206.836†	12633.6	5.087 mg/L	0.0894	5.087 mg/L	0.0894	1.76%
QC value within limits for Sb 206.836 Recovery = 101.74%						
Se 196.026†	9256.1	5.272 mg/L	0.1644	5.272 mg/L	0.1644	3.12%
QC value within limits for Se 196.026 Recovery = 105.44%						
Sn 189.927†	34400.8	5.314 mg/L	0.1169	5.314 mg/L	0.1169	2.20%
QC value within limits for Sn 189.927 Recovery = 106.28%						
Ti 337.279†	168036.2	4.900 mg/L	0.0280	4.900 mg/L	0.0280	0.57%
QC value within limits for Ti 337.279 Recovery = 97.99%						
Tl 351.924†	4767.8	2.852 mg/L	0.0651	2.852 mg/L	0.0651	2.28%
QC value greater than the upper limit for Tl 351.924 Recovery = 114.08%						
V 290.880†	356449.0	5.025 mg/L	0.0214	5.025 mg/L	0.0214	0.43%
QC value within limits for V 290.880 Recovery = 100.50%						
Zn 206.200†	285967.1	5.375 mg/L	0.0236	5.375 mg/L	0.0236	0.44%
QC value within limits for Zn 206.200 Recovery = 107.50%						
Zr 343.823†	732045.3	5.109 mg/L	0.0202	5.109 mg/L	0.0202	0.40%
QC value within limits for Zr 343.823 Recovery = 102.17%						
QC Failed. Continue with analysis.						

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Batch ID: AVIO 500

Sequence No.: 44

Autosampler Location: 1

Sample ID: SEQ-CCB@ 23J0970

Date Collected: 4/11/2024 5:27:27 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	167640.1	73.6 %	2.08	73.6 %	2.08	2.82%
Y axial	1725486.0	86.6 %	0.48	86.6 %	0.48	0.56%
Ag 328.068†	269.2	0.0082 mg/L	0.00068	0.0082 mg/L	0.00068	8.30%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-56.6	-0.0133 mg/L	0.01672	-0.0133 mg/L	0.01672	125.50%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	10.8	0.0069 mg/L	0.00234	0.0069 mg/L	0.00234	34.12%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	49.0	0.0076 mg/L	0.00178	0.0076 mg/L	0.00178	23.36%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	-3.1	-0.0003 mg/L	0.00093	-0.0003 mg/L	0.00093	345.27%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	452.5	0.0008 mg/L	0.00016	0.0008 mg/L	0.00016	20.61%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	106.2	0.0079 mg/L	0.00395	0.0079 mg/L	0.00395	50.08%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	5.8	0.0000 mg/L	0.00038	0.0000 mg/L	0.00038	>999.9%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-28.9	-0.0013 mg/L	0.00032	-0.0013 mg/L	0.00032	25.13%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	-3.2	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	375.12%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	5.6	0.0001 mg/L	0.00103	0.0001 mg/L	0.00103	985.64%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	47.8	0.0059 mg/L	0.00181	0.0059 mg/L	0.00181	30.47%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-865.7	-0.1545 mg/L	0.01664	-0.1545 mg/L	0.01664	10.77%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	-1.2	-0.0001 mg/L	0.00121	-0.0001 mg/L	0.00121	>999.9%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	-58.4	-0.0014 mg/L	0.00036	-0.0014 mg/L	0.00036	25.05%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	28.8	0.0017 mg/L	0.00017	0.0017 mg/L	0.00017	10.18%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-473.4	-0.0463 mg/L	0.00162	-0.0463 mg/L	0.00162	3.50%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-61.4	-0.0016 mg/L	0.00028	-0.0016 mg/L	0.00028	17.13%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	32.9	0.0053 mg/L	0.00081	0.0053 mg/L	0.00081	15.10%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	6.9	0.0028 mg/L	0.00246	0.0028 mg/L	0.00246	88.34%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	10.7	0.0061 mg/L	0.00497	0.0061 mg/L	0.00497	81.41%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	12.9	0.0020 mg/L	0.00046	0.0020 mg/L	0.00046	23.31%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-114.0	-0.0033 mg/L	0.00041	-0.0033 mg/L	0.00041	12.27%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-8.3	-0.0048 mg/L	0.00184	-0.0048 mg/L	0.00184	38.15%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	91.1	0.0013 mg/L	0.00037	0.0013 mg/L	0.00037	28.46%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	119.7	0.0022 mg/L	0.00013	0.0022 mg/L	0.00013	5.73%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	108.6	0.0008 mg/L	0.00042	0.0008 mg/L	0.00042	56.09%

All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 5:56:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 45

Sample ID: B370235-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 45

Date Collected: 4/11/2024 5:57:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BLK1

Mean Data: 2370255 Data								
Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Y radial	199891.7	87.8 %		0.95	87.8 %		0.95	1.08%
Y axial	1922688.2	96.5 %		0.75	96.5 %		0.75	0.77%
Ag 328.068†	40.5	0.0012 mg/L		0.00015	0.0012 mg/L		0.00015	12.08%
Al 396.153†	20.5	0.0046 mg/L		0.01018	0.0046 mg/L		0.01018	222.27%
As 188.979†	5.0	0.0032 mg/L		0.00073	0.0032 mg/L		0.00073	23.22%
B 208.889†	18.7	0.0028 mg/L		0.00027	0.0028 mg/L		0.00027	9.83%
Ba 233.527†	12.4	0.0011 mg/L		0.00018	0.0011 mg/L		0.00018	16.65%
Be 313.107†	-147.9	-0.0003 mg/L		0.00001	-0.0003 mg/L		0.00001	2.00%
Ca 317.933†	960.5	0.0714 mg/L		0.00371	0.0714 mg/L		0.00371	5.19%
Cd 228.802†	-9.1	-0.0005 mg/L		0.00003	-0.0005 mg/L		0.00003	7.40%
Co 228.616†	-23.2	-0.0010 mg/L		0.00027	-0.0010 mg/L		0.00027	26.18%
Cr 267.716†	258.3	0.0054 mg/L		0.00014	0.0054 mg/L		0.00014	2.62%
Cu 327.393†	-165.9	-0.0030 mg/L		0.00123	-0.0030 mg/L		0.00123	40.77%
Fe 238.204†	85.0	0.0106 mg/L		0.00080	0.0106 mg/L		0.00080	7.55%
K 766.490†	-601.9	-0.1074 mg/L		0.02518	-0.1074 mg/L		0.02518	23.45%
Mg 285.213†	88.3	0.0066 mg/L		0.00077	0.0066 mg/L		0.00077	11.60%
Mn 257.610†	-20.3	-0.0005 mg/L		0.00003	-0.0005 mg/L		0.00003	5.64%
Mo 202.031†	50.0	0.0030 mg/L		0.00060	0.0030 mg/L		0.00060	20.26%
Na 589.592†	432.5	0.0423 mg/L		0.01029	0.0423 mg/L		0.01029	24.32%
Ni 231.604†	-52.4	-0.0014 mg/L		0.00064	-0.0014 mg/L		0.00064	45.86%
Pb 220.353†	8.4	0.0014 mg/L		0.00031	0.0014 mg/L		0.00031	22.49%
Sb 206.836†	33.9	0.0136 mg/L		0.00616	0.0136 mg/L		0.00616	45.43%
Se 196.026†	12.2	0.0070 mg/L		0.00152	0.0070 mg/L		0.00152	21.70%
Sn 189.927†	10.1	0.0016 mg/L		0.00067	0.0016 mg/L		0.00067	43.07%
Ti 337.279†	-31.4	-0.0009 mg/L		0.00077	-0.0009 mg/L		0.00077	83.61%
Tl 351.924†	29.7	0.0174 mg/L		0.02788	0.0174 mg/L		0.02788	160.44%
V 290.880†	81.6	0.0012 mg/L		0.00058	0.0012 mg/L		0.00058	50.56%
Zn 206.200†	-8.7	-0.0001 mg/L		0.00017	-0.0001 mg/L		0.00017	123.98%
Zr 343.823†	181.0	0.0013 mg/L		0.00047	0.0013 mg/L		0.00047	36.94%

Batch ID: AVIO 500

Sequence No.: 46

Sample ID: B370235-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 46

Date Collected: 4/11/2024 6:05:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BS1

Mean Data: 2376255 251								
	Mean Corrected		Calib.		Sample			
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	199199.5	87.5	%	0.54	87.5	%	0.54	0.62%
Y axial	1879019.2	94.3	%	0.43	94.3	%	0.43	0.46%
Ag 328.068†	4.1	0.0029	mg/L	0.00029	0.0029	mg/L	0.00029	9.98%

Al 396.153†	2354.8	0.5200 mg/L	0.01804	0.5200 mg/L	0.01804	3.47%
As 188.979†	766.8	0.4860 mg/L	0.00140	0.4860 mg/L	0.00140	0.29%
B 208.889†	6597.2	1.012 mg/L	0.0053	1.012 mg/L	0.0053	0.52%
Ba 233.527†	5367.0	0.4704 mg/L	0.00914	0.4704 mg/L	0.00914	1.94%
Be 313.107†	294902.7	0.5007 mg/L	0.00220	0.5007 mg/L	0.00220	0.44%
Ca 317.933†	54606.5	4.058 mg/L	0.0981	4.058 mg/L	0.0981	2.42%
Cd 228.802†	13229.0	0.5184 mg/L	0.00275	0.5184 mg/L	0.00275	0.53%
Co 228.616†	11913.4	0.5265 mg/L	0.00320	0.5265 mg/L	0.00320	0.61%
Cr 267.716†	25307.9	0.5281 mg/L	0.00450	0.5281 mg/L	0.00450	0.85%
Cu 327.393†	61872.5	1.127 mg/L	0.0100	1.127 mg/L	0.0100	0.89%
Fe 238.204†	32565.9	4.070 mg/L	0.0854	4.070 mg/L	0.0854	2.10%
K 766.490†	18631.6	3.324 mg/L	0.0142	3.324 mg/L	0.0142	0.43%
Mg 285.213†	53743.0	4.046 mg/L	0.0760	4.046 mg/L	0.0760	1.88%
Mn 257.610†	20937.5	0.5089 mg/L	0.01069	0.5089 mg/L	0.01069	2.10%
Mo 202.031†	8633.5	0.5135 mg/L	0.00283	0.5135 mg/L	0.00283	0.55%
Na 589.592†	41892.0	4.097 mg/L	0.0167	4.097 mg/L	0.0167	0.41%
Ni 231.604†	20076.3	0.5374 mg/L	0.00675	0.5374 mg/L	0.00675	1.26%
Pb 220.353†	3224.1	0.5235 mg/L	0.00286	0.5235 mg/L	0.00286	0.55%
Sb 206.836†	1265.2	0.5092 mg/L	0.00294	0.5092 mg/L	0.00294	0.58%
Se 196.026†	882.7	0.5051 mg/L	0.00436	0.5051 mg/L	0.00436	0.86%
Sn 189.927†	3421.8	0.5286 mg/L	0.00398	0.5286 mg/L	0.00398	0.75%
Ti 337.279†	17030.2	0.4968 mg/L	0.01041	0.4968 mg/L	0.01041	2.10%
Tl 351.924†	1027.3	0.5987 mg/L	0.02234	0.5987 mg/L	0.02234	3.73%
V 290.880†	36341.9	0.5124 mg/L	0.00462	0.5124 mg/L	0.00462	0.90%
Zn 206.200†	57591.4	1.080 mg/L	0.0103	1.080 mg/L	0.0103	0.95%
Zr 343.823†	145.7	0.0008 mg/L	0.00057	0.0008 mg/L	0.00057	68.17%

Batch ID: AVIO 500

Sequence No.: 47

Sample ID: B370235-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 47

Date Collected: 4/11/2024 6:14:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BS2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y radial	193916.2	85.2	%	0.02	85.2	0.02	0.02%
Y axial	1792269.9	90.0	%	0.88	90.0	0.88	0.98%
Ag 328.068†	19561.5	0.6011	mg/L	0.00646	0.6011	0.00646	1.07%
Al 396.153†	2385.6	0.5264	mg/L	0.01333	0.5264	0.01333	2.53%
As 188.979†	782.4	0.4958	mg/L	0.00377	0.4958	0.00377	0.76%
B 208.889†	6792.8	1.042	mg/L	0.0143	1.042	0.0143	1.38%
Ba 233.527†	5514.6	0.4833	mg/L	0.00815	0.4833	0.00815	1.69%
Be 313.107†	301246.7	0.5115	mg/L	0.00048	0.5115	0.00048	0.09%
Ca 317.933†	55487.6	4.124	mg/L	0.0432	4.124	0.0432	1.05%
Cd 228.802†	13619.5	0.5338	mg/L	0.00800	0.5338	0.00800	1.50%
Co 228.616†	12220.6	0.5401	mg/L	0.00810	0.5401	0.00810	1.50%
Cr 267.716†	25600.4	0.5342	mg/L	0.00857	0.5342	0.00857	1.60%
Cu 327.393†	61616.4	1.123	mg/L	0.0147	1.123	0.0147	1.31%
Fe 238.204†	33078.3	4.134	mg/L	0.0260	4.134	0.0260	0.63%
K 766.490†	19339.2	3.450	mg/L	0.0343	3.450	0.0343	0.99%
Mg 285.213†	54647.7	4.114	mg/L	0.0342	4.114	0.0342	0.83%
Mn 257.610†	21278.9	0.5172	mg/L	0.00407	0.5172	0.00407	0.79%
Mo 202.031†	8873.8	0.5278	mg/L	0.00829	0.5278	0.00829	1.57%
Na 589.592†	43082.1	4.213	mg/L	0.0314	4.213	0.0314	0.75%
Ni 231.604†	20195.8	0.5406	mg/L	0.00771	0.5406	0.00771	1.43%
Pb 220.353†	3291.7	0.5345	mg/L	0.00666	0.5345	0.00666	1.25%
Sb 206.836†	1312.4	0.5284	mg/L	0.00965	0.5284	0.00965	1.83%
Se 196.026†	895.3	0.5123	mg/L	0.00725	0.5123	0.00725	1.42%
Sn 189.927†	3499.4	0.5406	mg/L	0.00706	0.5406	0.00706	1.31%
Ti 337.279†	17296.7	0.5046	mg/L	0.00286	0.5046	0.00286	0.57%
Tl 351.924†	1045.1	0.6090	mg/L	0.00840	0.6090	0.00840	1.38%
V 290.880†	36526.2	0.5150	mg/L	0.00834	0.5150	0.00834	1.62%
Zn 206.200†	57522.0	1.078	mg/L	0.0201	1.078	0.0201	1.86%
Zr 343.823†	46.6	0.0001	mg/L	0.00033	0.0001	0.00033	223.58%

Batch ID: AVIO 500
 Sequence No.: 48
 Sample ID: B370235-BS3
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 200

Autosampler Location: 48
 Date Collected: 4/11/2024 6:23:29 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B370235-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	199305.4	87.5 %		0.91	87.5 %	0.91	1.03%
Y axial	1857747.2	93.3 %		0.29	93.3 %	0.29	0.32%
Ag 328.068†	19493.4	0.5991 mg/L		0.00260	0.5991 mg/L	0.00260	0.43%
Al 396.153†	2321.2	0.5112 mg/L		0.02537	0.5112 mg/L	0.02537	4.96%
As 188.979†	793.3	0.5027 mg/L		0.00447	0.5027 mg/L	0.00447	0.89%
B 208.889†	6827.1	1.047 mg/L		0.0104	1.047 mg/L	0.0104	0.99%
Ba 233.527†	5525.4	0.4843 mg/L		0.00364	0.4843 mg/L	0.00364	0.75%
Be 313.107†	300252.4	0.5098 mg/L		0.00092	0.5098 mg/L	0.00092	0.18%
Ca 317.933†	55382.5	4.116 mg/L		0.0698	4.116 mg/L	0.0698	1.70%
Cd 228.802†	13743.4	0.5386 mg/L		0.00365	0.5386 mg/L	0.00365	0.68%
Co 228.616†	12304.8	0.5438 mg/L		0.00438	0.5438 mg/L	0.00438	0.81%
Cr 267.716†	25954.8	0.5416 mg/L		0.00425	0.5416 mg/L	0.00425	0.79%
Cu 327.393†	61870.4	1.127 mg/L		0.0073	1.127 mg/L	0.0073	0.65%
Fe 238.204†	33248.7	4.155 mg/L		0.0740	4.155 mg/L	0.0740	1.78%
K 766.490†	19388.0	3.459 mg/L		0.0059	3.459 mg/L	0.0059	0.17%
Mg 285.213†	54465.6	4.100 mg/L		0.0697	4.100 mg/L	0.0697	1.70%
Mn 257.610†	21252.8	0.5166 mg/L		0.00899	0.5166 mg/L	0.00899	1.74%
Mo 202.031†	8932.8	0.5313 mg/L		0.00411	0.5313 mg/L	0.00411	0.77%
Na 589.592†	43349.9	4.239 mg/L		0.0017	4.239 mg/L	0.0017	0.04%
Ni 231.604†	20676.6	0.5535 mg/L		0.00446	0.5535 mg/L	0.00446	0.81%
Pb 220.353†	3255.1	0.5286 mg/L		0.00560	0.5286 mg/L	0.00560	1.06%
Sb 206.836†	1298.4	0.5227 mg/L		0.00738	0.5227 mg/L	0.00738	1.41%
Se 196.026†	897.3	0.5134 mg/L		0.00753	0.5134 mg/L	0.00753	1.47%
Sn 189.927†	3535.3	0.5461 mg/L		0.00678	0.5461 mg/L	0.00678	1.24%
Ti 337.279†	17281.7	0.5041 mg/L		0.00854	0.5041 mg/L	0.00854	1.69%
Tl 351.924†	1076.4	0.6273 mg/L		0.01351	0.6273 mg/L	0.01351	2.15%
V 290.880†	37211.0	0.5247 mg/L		0.00416	0.5247 mg/L	0.00416	0.79%
Zn 206.200†	59018.0	1.107 mg/L		0.0093	1.107 mg/L	0.0093	0.84%
Zr 343.823†	75.2	0.0003 mg/L		0.00018	0.0003 mg/L	0.00018	53.10%

Batch ID: AVIO 500
 Sequence No.: 49
 Sample ID: B370235-BS4
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 200

Autosampler Location: 49
 Date Collected: 4/11/2024 6:32:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B370235-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	206714.3	90.8 %		0.67	90.8 %	0.67	0.74%
Y axial	1914880.9	96.1 %		0.61	96.1 %	0.61	0.64%
Ag 328.068†	18696.7	0.5747 mg/L		0.00364	0.5747 mg/L	0.00364	0.63%
Al 396.153†	2290.1	0.5045 mg/L		0.00414	0.5045 mg/L	0.00414	0.82%
As 188.979†	776.9	0.4923 mg/L		0.00071	0.4923 mg/L	0.00071	0.14%
B 208.889†	6666.2	1.022 mg/L		0.0067	1.022 mg/L	0.0067	0.66%
Ba 233.527†	5485.7	0.4808 mg/L		0.00712	0.4808 mg/L	0.00712	1.48%
Be 313.107†	297301.7	0.5048 mg/L		0.00226	0.5048 mg/L	0.00226	0.45%
Ca 317.933†	55181.3	4.101 mg/L		0.0172	4.101 mg/L	0.0172	0.42%
Cd 228.802†	13397.6	0.5250 mg/L		0.00296	0.5250 mg/L	0.00296	0.56%
Co 228.616†	12034.6	0.5318 mg/L		0.00365	0.5318 mg/L	0.00365	0.69%
Cr 267.716†	25539.2	0.5329 mg/L		0.00150	0.5329 mg/L	0.00150	0.28%
Cu 327.393†	60970.9	1.111 mg/L		0.0026	1.111 mg/L	0.0026	0.23%
Fe 238.204†	32864.3	4.107 mg/L		0.0228	4.107 mg/L	0.0228	0.55%

K 766.490†	19056.3	3.400 mg/L	0.0189	3.400 mg/L	0.0189	0.55%
Mg 285.213†	53784.2	4.049 mg/L	0.0190	4.049 mg/L	0.0190	0.47%
Mn 257.610†	20968.7	0.5097 mg/L	0.00221	0.5097 mg/L	0.00221	0.43%
Mo 202.031†	8750.9	0.5205 mg/L	0.00315	0.5205 mg/L	0.00315	0.61%
Na 589.592†	42178.0	4.125 mg/L	0.0132	4.125 mg/L	0.0132	0.32%
Ni 231.604†	20322.7	0.5440 mg/L	0.00267	0.5440 mg/L	0.00267	0.49%
Pb 220.353†	3223.8	0.5235 mg/L	0.00213	0.5235 mg/L	0.00213	0.41%
Sb 206.836†	1282.2	0.5161 mg/L	0.00773	0.5161 mg/L	0.00773	1.50%
Se 196.026†	886.2	0.5071 mg/L	0.00410	0.5071 mg/L	0.00410	0.81%
Sn 189.927†	3457.6	0.5341 mg/L	0.00352	0.5341 mg/L	0.00352	0.66%
Ti 337.279†	17136.2	0.4999 mg/L	0.00078	0.4999 mg/L	0.00078	0.16%
Tl 351.924†	1031.7	0.6012 mg/L	0.00885	0.6012 mg/L	0.00885	1.47%
V 290.880†	36891.1	0.5202 mg/L	0.00197	0.5202 mg/L	0.00197	0.38%
Zn 206.200†	58042.0	1.088 mg/L	0.0058	1.088 mg/L	0.0058	0.53%
Zr 343.823†	97.6	0.0005 mg/L	0.00038	0.0005 mg/L	0.00038	74.90%

User canceled analysis.

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 6:49:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 50

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2024 6:52:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	193145.1	84.8 %	0.16	84.8 %	0.16	0.18%
Y axial	1728583.3	86.8 %	0.34	86.8 %	0.34	0.39%
Ag 328.068†	83071.0	2.533 mg/L	0.0290	2.533 mg/L	0.0290	1.15%
QC value within limits for Ag	328.068	Recovery = 101.31%				
Al 396.153†	42422.5	9.532 mg/L	0.0205	9.532 mg/L	0.0205	0.21%
QC value within limits for Al	396.153	Recovery = 95.32%				
As 188.979†	7919.9	5.019 mg/L	0.0837	5.019 mg/L	0.0837	1.67%
QC value within limits for As	188.979	Recovery = 100.38%				
B 208.889†	31634.0	4.703 mg/L	0.1047	4.703 mg/L	0.1047	2.23%
QC value within limits for B	208.889	Recovery = 94.06%				
Ba 233.527†	54529.3	4.779 mg/L	0.0390	4.779 mg/L	0.0390	0.82%
QC value within limits for Ba	233.527	Recovery = 95.59%				
Be 313.107†	2818500.5	4.785 mg/L	0.0238	4.785 mg/L	0.0238	0.50%
QC value within limits for Be	313.107	Recovery = 95.70%				
Ca 317.933†	130925.5	9.730 mg/L	0.0158	9.730 mg/L	0.0158	0.16%
QC value within limits for Ca	317.933	Recovery = 97.30%				
Cd 228.802†	126519.2	4.948 mg/L	0.0142	4.948 mg/L	0.0142	0.29%
QC value within limits for Cd	228.802	Recovery = 98.96%				
Co 228.616†	114160.5	5.046 mg/L	0.0196	5.046 mg/L	0.0196	0.39%
QC value within limits for Co	228.616	Recovery = 100.92%				
Cr 267.716†	242535.8	5.061 mg/L	0.0072	5.061 mg/L	0.0072	0.14%
QC value within limits for Cr	267.716	Recovery = 101.22%				
Cu 327.393†	273306.6	5.008 mg/L	0.0089	5.008 mg/L	0.0089	0.18%
QC value within limits for Cu	327.393	Recovery = 100.16%				
Fe 238.204†	38449.4	4.859 mg/L	0.0188	4.859 mg/L	0.0188	0.39%
QC value within limits for Fe	238.204	Recovery = 97.18%				
K 766.490†	53628.1	9.568 mg/L	0.0374	9.568 mg/L	0.0374	0.39%
QC value within limits for K	766.490	Recovery = 95.68%				
Mg 285.213†	128213.6	9.630 mg/L	0.0181	9.630 mg/L	0.0181	0.19%
QC value within limits for Mg	285.213	Recovery = 96.30%				
Mn 257.610†	200396.6	4.870 mg/L	0.0031	4.870 mg/L	0.0031	0.06%
QC value within limits for Mn	257.610	Recovery = 97.40%				
Mo 202.031†	85382.1	5.079 mg/L	0.0117	5.079 mg/L	0.0117	0.23%
QC value within limits for Mo	202.031	Recovery = 101.58%				
Na 589.592†	100903.6	9.868 mg/L	0.0078	9.868 mg/L	0.0078	0.08%
QC value within limits for Na	589.592	Recovery = 98.68%				
Ni 231.604†	189767.9	5.080 mg/L	0.0061	5.080 mg/L	0.0061	0.12%
QC value within limits for Ni	231.604	Recovery = 101.59%				
Pb 220.353†	30309.2	4.929 mg/L	0.1011	4.929 mg/L	0.1011	2.05%
QC value within limits for Pb	220.353	Recovery = 98.57%				
Sb 206.836†	12325.2	4.964 mg/L	0.0866	4.964 mg/L	0.0866	1.74%
QC value within limits for Sb	206.836	Recovery = 99.27%				
Se 196.026†	8738.3	4.977 mg/L	0.1004	4.977 mg/L	0.1004	2.02%
QC value within limits for Se	196.026	Recovery = 99.54%				
Sn 189.927†	33274.7	5.140 mg/L	0.1096	5.140 mg/L	0.1096	2.13%
QC value within limits for Sn	189.927	Recovery = 102.81%				

Ti 337.279† 167395.7 4.881 mg/L 0.0073 4.881 mg/L 0.0073 0.15%
 QC value within limits for Ti 337.279 Recovery = 97.62%
 Tl 351.924† 4730.7 2.833 mg/L 0.0886 2.833 mg/L 0.0886 3.13%
 QC value greater than the upper limit for Tl 351.924 Recovery = 113.34%
 V 290.880† 356864.0 5.031 mg/L 0.0094 5.031 mg/L 0.0094 0.19%
 QC value within limits for V 290.880 Recovery = 100.62%
 Zn 206.200† 274643.9 5.163 mg/L 0.0128 5.163 mg/L 0.0128 0.25%
 QC value within limits for Zn 206.200 Recovery = 103.26%
 Zr 343.823† 759038.6 5.297 mg/L 0.0128 5.297 mg/L 0.0128 0.24%
 QC value within limits for Zr 343.823 Recovery = 105.94%
 QC Failed. Continue with analysis.

=====

Batch ID: AVIO 500

Sequence No.: 51

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 7:00:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	185168.8	81.3 %	1.00	81.3 %	1.00	1.23%
Y axial	1724119.1	86.5 %	3.32	86.5 %	3.32	3.84%
Ag 328.068†	-6.1	-0.0002 mg/L	0.00051	-0.0002 mg/L	0.00051	269.90%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-63.8	-0.0150 mg/L	0.02780	-0.0150 mg/L	0.02780	185.07%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	6.4	0.0041 mg/L	0.00031	0.0041 mg/L	0.00031	7.70%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	20.4	0.0031 mg/L	0.00146	0.0031 mg/L	0.00146	46.87%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	2.1	0.0002 mg/L	0.00046	0.0002 mg/L	0.00046	243.48%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	123.1	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	38.54%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	26.1	0.0019 mg/L	0.00122	0.0019 mg/L	0.00122	62.74%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	2.6	-0.0000 mg/L	0.00028	-0.0000 mg/L	0.00028	>999.9%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-24.8	-0.0011 mg/L	0.00032	-0.0011 mg/L	0.00032	29.40%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	17.6	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	24.28%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-81.4	-0.0015 mg/L	0.00090	-0.0015 mg/L	0.00090	61.31%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	28.5	0.0035 mg/L	0.00053	0.0035 mg/L	0.00053	15.01%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-776.9	-0.1386 mg/L	0.01412	-0.1386 mg/L	0.01412	10.19%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	-3.4	-0.0003 mg/L	0.00104	-0.0003 mg/L	0.00104	404.80%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	-47.4	-0.0012 mg/L	0.00006	-0.0012 mg/L	0.00006	5.58%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	29.3	0.0017 mg/L	0.00022	0.0017 mg/L	0.00022	12.77%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-627.7	-0.0614 mg/L	0.01277	-0.0614 mg/L	0.01277	20.80%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-58.6	-0.0016 mg/L	0.00071	-0.0016 mg/L	0.00071	45.35%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	30.5	0.0049 mg/L	0.00205	0.0049 mg/L	0.00205	41.40%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	17.0	0.0069 mg/L	0.00608	0.0069 mg/L	0.00608	88.60%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	5.3	0.0030 mg/L	0.00410	0.0030 mg/L	0.00410	135.10%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	6.8	0.0010 mg/L	0.00102	0.0010 mg/L	0.00102	97.92%

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -85.4 -0.0025 mg/L 0.00080 -0.0025 mg/L 0.00080 32.27%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -16.5 -0.0096 mg/L 0.01090 -0.0096 mg/L 0.01090 113.22%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 93.4 0.0013 mg/L 0.00018 0.0013 mg/L 0.00018 13.33%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 53.7 0.0010 mg/L 0.00034 0.0010 mg/L 0.00034 33.33%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 184.8 0.0013 mg/L 0.00042 0.0013 mg/L 0.00042 32.58%
 All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 52

Sample ID: B371015-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 50

Date Collected: 4/11/2024 7:08:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	167805.6	73.7 %	0.41	73.7 %	0.41	0.56%
Y axial	1668143.3	83.7 %	0.93	83.7 %	0.93	1.11%
Ag 328.068†	-17.9	-0.0005 mg/L	0.00073	-0.0005 mg/L	0.00073	134.64%
Al 396.153†	-5.1	-0.0013 mg/L	0.00969	-0.0013 mg/L	0.00969	724.44%
As 188.979†	1.7	0.0011 mg/L	0.00390	0.0011 mg/L	0.00390	361.42%
B 208.889†	48.0	0.0074 mg/L	0.00030	0.0074 mg/L	0.00030	4.00%
Ba 233.527†	10.1	0.0009 mg/L	0.00072	0.0009 mg/L	0.00072	80.72%
Be 313.107†	69.2	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	56.17%
Ca 317.933†	390.2	0.0290 mg/L	0.00343	0.0290 mg/L	0.00343	11.82%
Cd 228.802†	8.6	0.0003 mg/L	0.00031	0.0003 mg/L	0.00031	100.28%
Co 228.616†	-16.4	-0.0007 mg/L	0.00051	-0.0007 mg/L	0.00051	71.02%
Cr 267.716†	26.0	0.0005 mg/L	0.00060	0.0005 mg/L	0.00060	109.80%
Cu 327.393†	686.6	0.0125 mg/L	0.00141	0.0125 mg/L	0.00141	11.31%
Fe 238.204†	138.4	0.0173 mg/L	0.00061	0.0173 mg/L	0.00061	3.52%
K 766.490†	-556.0	-0.0992 mg/L	0.01566	-0.0992 mg/L	0.01566	15.79%
Mg 285.213†	19.0	0.0014 mg/L	0.00060	0.0014 mg/L	0.00060	41.85%
Mn 257.610†	3.7	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	102.20%
Mo 202.031†	38.3	0.0023 mg/L	0.00010	0.0023 mg/L	0.00010	4.33%
Na 589.592†	-171.1	-0.0167 mg/L	0.01704	-0.0167 mg/L	0.01704	101.82%
Ni 231.604†	-24.6	-0.0007 mg/L	0.00063	-0.0007 mg/L	0.00063	95.74%
Pb 220.353†	73.0	0.0118 mg/L	0.00242	0.0118 mg/L	0.00242	20.46%
Sb 206.836†	9.1	0.0037 mg/L	0.00645	0.0037 mg/L	0.00645	174.05%
Se 196.026†	7.8	0.0045 mg/L	0.00452	0.0045 mg/L	0.00452	101.06%
Sn 189.927†	229.7	0.0354 mg/L	0.00088	0.0354 mg/L	0.00088	2.49%
Ti 337.279†	-75.8	-0.0022 mg/L	0.00039	-0.0022 mg/L	0.00039	17.44%
Tl 351.924†	-11.5	-0.0067 mg/L	0.00758	-0.0067 mg/L	0.00758	112.94%
V 290.880†	133.6	0.0019 mg/L	0.00061	0.0019 mg/L	0.00061	32.59%
Zn 206.200†	599.3	0.0112 mg/L	0.00059	0.0112 mg/L	0.00059	5.23%
Zr 343.823†	147.2	0.0010 mg/L	0.00009	0.0010 mg/L	0.00009	8.83%

Batch ID: AVIO 500

Sequence No.: 53

Sample ID: B371015-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 51

Date Collected: 4/11/2024 7:17:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-BS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155870.7	68.4 %	0.93	68.4 %	0.93	1.36%
Y axial	1475399.4	74.1 %	0.58	74.1 %	0.58	0.78%

Ag 328.068†	26921.7	0.8305 mg/L	0.00925	0.8305 mg/L	0.00925	1.11%
Al 396.153†	241017.7	56.18 mg/L	0.198	56.18 mg/L	0.198	0.35%
As 188.979†	4394.9	2.804 mg/L	0.0180	2.804 mg/L	0.0180	0.64%
B 208.889†	12897.7	1.959 mg/L	0.0118	1.959 mg/L	0.0118	0.60%
Ba 233.527†	30708.2	2.692 mg/L	0.0477	2.692 mg/L	0.0477	1.77%
Be 313.107†	924673.9	1.572 mg/L	0.0290	1.572 mg/L	0.0290	1.84%
Ca 317.933†	624472.9	46.41 mg/L	0.906	46.41 mg/L	0.906	1.95%
Cd 228.802†	52005.2	2.009 mg/L	0.0118	2.009 mg/L	0.0118	0.59%
Co 228.616†	17284.9	0.7602 mg/L	0.00458	0.7602 mg/L	0.00458	0.60%
Cr 267.716†	84367.7	1.760 mg/L	0.0023	1.760 mg/L	0.0023	0.13%
Cu 327.393†	112366.9	2.050 mg/L	0.0041	2.050 mg/L	0.0041	0.20%
Fe 238.204†	472148.3	58.93 mg/L	0.367	58.93 mg/L	0.367	0.62%
K 766.490†	63589.2	11.35 mg/L	0.065	11.35 mg/L	0.065	0.57%
Mg 285.213†	204954.0	15.45 mg/L	0.063	15.45 mg/L	0.063	0.41%
Mn 257.610†	206388.1	5.017 mg/L	0.0283	5.017 mg/L	0.0283	0.56%
Mo 202.031†	22576.2	1.343 mg/L	0.0082	1.343 mg/L	0.0082	0.61%
Na 589.592†	48235.3	4.717 mg/L	0.0200	4.717 mg/L	0.0200	0.42%
Ni 231.604†	109641.6	2.939 mg/L	0.0145	2.939 mg/L	0.0145	0.49%
Pb 220.353†	5241.6	0.8558 mg/L	0.00743	0.8558 mg/L	0.00743	0.87%
Sb 206.836†	2389.0	0.9571 mg/L	0.00623	0.9571 mg/L	0.00623	0.65%
Se 196.026†	2610.5	1.522 mg/L	0.0154	1.522 mg/L	0.0154	1.01%
Sn 189.927†	5389.5	0.8361 mg/L	0.00698	0.8361 mg/L	0.00698	0.83%
Ti 337.279†	105380.5	3.074 mg/L	0.0175	3.074 mg/L	0.0175	0.57%
Tl 351.924†	3796.9	2.221 mg/L	0.0221	2.221 mg/L	0.0221	0.99%
V 290.880†	73061.2	1.028 mg/L	0.0036	1.028 mg/L	0.0036	0.35%
Zn 206.200†	82796.8	1.558 mg/L	0.0074	1.558 mg/L	0.0074	0.47%
Zr 343.823†	10540.9	0.0710 mg/L	0.00066	0.0710 mg/L	0.00066	0.94%

Batch ID: AVIO 500

Sequence No.: 54

Sample ID: B371015-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 52

Date Collected: 4/11/2024 7:26:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	160239.9	70.4 %		1.40	70.4 %	1.40	2.00%
Y axial	1516086.0	76.1 %		0.95	76.1 %	0.95	1.25%
Ag 328.068†	28256.1	0.8715 mg/L		0.01623	0.8715 mg/L	0.01623	1.86%
Al 396.153†	244442.2	56.97 mg/L		0.120	56.97 mg/L	0.120	0.21%
As 188.979†	4626.6	2.952 mg/L		0.0158	2.952 mg/L	0.0158	0.54%
B 208.889†	13470.0	2.046 mg/L		0.0157	2.046 mg/L	0.0157	0.77%
Ba 233.527†	30716.3	2.692 mg/L		0.0887	2.692 mg/L	0.0887	3.29%
Be 313.107†	969197.8	1.648 mg/L		0.0252	1.648 mg/L	0.0252	1.53%
Ca 317.933†	667872.3	49.63 mg/L		0.834	49.63 mg/L	0.834	1.68%
Cd 228.802†	53311.9	2.057 mg/L		0.0165	2.057 mg/L	0.0165	0.80%
Co 228.616†	18135.0	0.7977 mg/L		0.00631	0.7977 mg/L	0.00631	0.79%
Cr 267.716†	87463.9	1.824 mg/L		0.0028	1.824 mg/L	0.0028	0.15%
Cu 327.393†	114956.5	2.097 mg/L		0.0048	2.097 mg/L	0.0048	0.23%
Fe 238.204†	463701.6	57.87 mg/L		0.156	57.87 mg/L	0.156	0.27%
K 766.490†	64207.4	11.46 mg/L		0.057	11.46 mg/L	0.057	0.50%
Mg 285.213†	208115.3	15.68 mg/L		0.005	15.68 mg/L	0.005	0.03%
Mn 257.610†	214520.6	5.214 mg/L		0.0056	5.214 mg/L	0.0056	0.11%
Mo 202.031†	23548.3	1.401 mg/L		0.0107	1.401 mg/L	0.0107	0.76%
Na 589.592†	49330.6	4.824 mg/L		0.0085	4.824 mg/L	0.0085	0.18%
Ni 231.604†	114208.7	3.061 mg/L		0.0071	3.061 mg/L	0.0071	0.23%
Pb 220.353†	5491.3	0.8965 mg/L		0.00453	0.8965 mg/L	0.00453	0.50%
Sb 206.836†	2460.8	0.9860 mg/L		0.01335	0.9860 mg/L	0.01335	1.35%
Se 196.026†	2757.5	1.604 mg/L		0.0091	1.604 mg/L	0.0091	0.57%
Sn 189.927†	4901.3	0.7608 mg/L		0.00459	0.7608 mg/L	0.00459	0.60%
Ti 337.279†	106330.2	3.102 mg/L		0.0091	3.102 mg/L	0.0091	0.29%
Tl 351.924†	3817.8	2.233 mg/L		0.0169	2.233 mg/L	0.0169	0.76%
V 290.880†	74931.2	1.054 mg/L		0.0029	1.054 mg/L	0.0029	0.27%
Zn 206.200†	87008.0	1.637 mg/L		0.0031	1.637 mg/L	0.0031	0.19%
Zr 343.823†	11050.9	0.0746 mg/L		0.00078	0.0746 mg/L	0.00078	1.05%

Autosampler Location: 53
Date Collected: 4/11/2024 7:35:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y radial	167045.2	73.4	0.91	73.4	0.91	1.25%
Y axial	1546924.9	77.7	0.72	77.7	0.72	0.93%
Ag 328.068†	17929.0	0.5563 mg/L	0.00510	0.5563 mg/L	0.00510	0.92%
Al 396.153†	526038.1	122.8 mg/L	0.87	122.8 mg/L	0.87	0.71%
As 188.979†	896.4	0.5930 mg/L	0.01032	0.5930 mg/L	0.01032	1.74%
B 208.889†	5711.0	0.8714 mg/L	0.01501	0.8714 mg/L	0.01501	1.72%
Ba 233.527†	14422.2	1.264 mg/L	0.0137	1.264 mg/L	0.0137	1.08%
Be 313.107†	299019.5	0.5069 mg/L	0.00330	0.5069 mg/L	0.00330	0.65%
Ca 317.933†	573838.5	42.64 mg/L	0.415	42.64 mg/L	0.415	0.97%
Cd 228.802†	12826.0	0.5003 mg/L	0.00663	0.5003 mg/L	0.00663	1.32%
Co 228.616†	12800.6	0.5473 mg/L	0.00770	0.5473 mg/L	0.00770	1.41%
Cr 267.716†	35443.6	0.7426 mg/L	0.00922	0.7426 mg/L	0.00922	1.24%
Cu 327.393†	64058.4	1.174 mg/L	0.0085	1.174 mg/L	0.0085	0.73%
Fe 238.204†	1245684.4	155.4 mg/L	1.46	155.4 mg/L	1.46	0.94%
K 766.490†	212480.1	37.91 mg/L	0.270	37.91 mg/L	0.270	0.71%
Mg 285.213†	618902.8	46.66 mg/L	0.255	46.66 mg/L	0.255	0.55%
Mn 257.610†	104945.1	2.554 mg/L	0.0427	2.554 mg/L	0.0427	1.67%
Mo 202.031†	8823.4	0.5248 mg/L	0.00634	0.5248 mg/L	0.00634	1.21%
Na 589.592†	56962.5	5.571 mg/L	0.0360	5.571 mg/L	0.0360	0.65%
Ni 231.604†	23579.4	0.6384 mg/L	0.00853	0.6384 mg/L	0.00853	1.34%
Pb 220.353†	3365.5	0.5557 mg/L	0.00576	0.5557 mg/L	0.00576	1.04%
Sb 206.836†	651.2	0.2686 mg/L	0.00181	0.2686 mg/L	0.00181	0.68%
Se 196.026†	755.8	0.5292 mg/L	0.00616	0.5292 mg/L	0.00616	1.16%
Sn 189.927†	3298.2	0.5243 mg/L	0.00515	0.5243 mg/L	0.00515	0.98%
Ti 337.279†	344123.6	10.04 mg/L	0.065	10.04 mg/L	0.065	0.65%
Tl 351.924†	939.5	0.5562 mg/L	0.01686	0.5562 mg/L	0.01686	3.03%
V 290.880†	53623.7	0.7506 mg/L	0.00280	0.7506 mg/L	0.00280	0.37%
Zn 206.200†	76774.5	1.440 mg/L	0.0128	1.440 mg/L	0.0128	0.89%
Zr 343.823†	3643.1	0.0188 mg/L	0.00042	0.0188 mg/L	0.00042	2.25%

Autosampler Location: 54
Date Collected: 4/11/2024 7:44:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

[illegible]

Cr 267.716†	147073.1	3.072 mg/L	0.8522	3.072 mg/L	0.8522	27.74%
Cu 327.393†	311142.1	5.675 mg/L	1.6828	5.675 mg/L	1.6828	29.65%
Fe 238.204†	1416452.8	176.8 mg/L	0.73	176.8 mg/L	0.73	0.41%
K 766.490†	239815.1	42.79 mg/L	0.254	42.79 mg/L	0.254	0.59%
Mg 285.213†	698523.0	52.67 mg/L	0.130	52.67 mg/L	0.130	0.25%
Mn 257.610†	142772.5	3.474 mg/L	0.0681	3.474 mg/L	0.0681	1.96%
Mo 202.031†	48961.7	2.912 mg/L	0.4739	2.912 mg/L	0.4739	16.27%
Saturated within auto integration window (code 4)						
Na 589.592†	27309.3	2.671 mg/L	0.4111	2.671 mg/L	0.4111	15.39%
Ni 231.604†	105806.0	2.840 mg/L	0.8217	2.840 mg/L	0.8217	28.93%
Pb 220.353†	18027.4	2.939 mg/L	0.6410	2.939 mg/L	0.6410	21.81%
Sb 206.836†	7551.0	3.046 mg/L	0.6878	3.046 mg/L	0.6878	22.58%
Se 196.026†	5164.3	3.053 mg/L	0.6899	3.053 mg/L	0.6899	22.59%
Sn 189.927†	19592.7	3.040 mg/L	0.6716	3.040 mg/L	0.6716	22.09%
Ti 337.279†	395398.1	11.53 mg/L	0.038	11.53 mg/L	0.038	0.33%
Tl 351.924†	5815.8	3.400 mg/L	0.7451	3.400 mg/L	0.7451	21.91%
V 290.880†	217965.9	3.066 mg/L	0.8572	3.066 mg/L	0.8572	27.95%
Zn 206.200†	319253.7	5.988 mg/L	1.7109	5.988 mg/L	1.7109	28.57%
Zr 343.823†	3593.2	0.0175 mg/L	0.00039	0.0175 mg/L	0.00039	2.22%

Batch ID: AVIO 500

Sequence No.: 57

Sample ID: B371015-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 55

Date Collected: 4/11/2024 7:53:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-SRL1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	174879.4	76.8 %	0.89	76.8 %	0.89	1.16%
Y axial	1680920.8	84.4 %	0.16	84.4 %	0.16	0.19%
Ag 328.068†	-0.5	0.0012 mg/L	0.00159	0.0012 mg/L	0.00159	128.34%
Al 396.153†	132646.6	30.96 mg/L	0.134	30.96 mg/L	0.134	0.43%
As 188.979†	36.4	0.0291 mg/L	0.00229	0.0291 mg/L	0.00229	7.87%
B 208.889†	47.8	0.0072 mg/L	0.00135	0.0072 mg/L	0.00135	18.80%
Ba 233.527†	2960.1	0.2594 mg/L	0.00172	0.2594 mg/L	0.00172	0.66%
Be 313.107†	980.7	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	6.09%
Ca 317.933†	129919.2	9.655 mg/L	0.0395	9.655 mg/L	0.0395	0.41%
Cd 228.802†	5.4	-0.0003 mg/L	0.00039	-0.0003 mg/L	0.00039	135.96%
Co 228.616†	433.4	0.0148 mg/L	0.00045	0.0148 mg/L	0.00045	3.01%
Cr 267.716†	2849.6	0.0601 mg/L	0.00012	0.0601 mg/L	0.00012	0.21%
Cu 327.393†	1300.4	0.0252 mg/L	0.00059	0.0252 mg/L	0.00059	2.35%
Fe 238.204†	298442.2	37.24 mg/L	0.191	37.24 mg/L	0.191	0.51%
K 766.490†	48760.8	8.700 mg/L	0.0501	8.700 mg/L	0.0501	0.58%
Mg 285.213†	146027.8	11.01 mg/L	0.061	11.01 mg/L	0.061	0.55%
Mn 257.610†	28755.7	0.6998 mg/L	0.00764	0.6998 mg/L	0.00764	1.09%
Mo 202.031†	104.6	0.0062 mg/L	0.00052	0.0062 mg/L	0.00052	8.39%
Na 589.592†	3140.7	0.3071 mg/L	0.01177	0.3071 mg/L	0.01177	3.83%
Ni 231.604†	1194.6	0.0338 mg/L	0.00021	0.0338 mg/L	0.00021	0.63%
Pb 220.353†	110.5	0.0203 mg/L	0.00206	0.0203 mg/L	0.00206	10.16%
Sb 206.836†	1.1	0.0018 mg/L	0.00435	0.0018 mg/L	0.00435	243.05%
Se 196.026†	-24.6	0.0096 mg/L	0.00460	0.0096 mg/L	0.00460	48.06%
Sn 189.927†	39.5	0.0097 mg/L	0.00086	0.0097 mg/L	0.00086	8.94%
Ti 337.279†	78760.1	2.298 mg/L	0.0251	2.298 mg/L	0.0251	1.09%
Tl 351.924†	-21.4	-0.0102 mg/L	0.00064	-0.0102 mg/L	0.00064	6.30%
V 290.880†	4321.8	0.0596 mg/L	0.00230	0.0596 mg/L	0.00230	3.86%
Zn 206.200†	5867.0	0.1100 mg/L	0.00080	0.1100 mg/L	0.00080	0.72%
Zr 343.823†	761.4	0.0037 mg/L	0.00057	0.0037 mg/L	0.00057	15.34%

Batch ID: AVIO 500

Sequence No.: 58

Sample ID: B371015-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 56

Date Collected: 4/11/2024 8:01:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: B371015-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	164023.4	72.0	%	1.31	72.0	1.31	1.82%
Y axial	1629775.2	81.8	%	0.78	81.8	0.78	0.96%
Ag 328.068†	-308.4	-0.0036	mg/L	0.00147	-0.0036	0.00147	40.38%
Al 396.153†	602035.5	140.5	mg/L	0.37	140.5	0.37	0.27%
As 188.979†	120.2	0.1039	mg/L	0.00385	0.1039	0.00385	3.71%
B 208.889†	70.8	0.0100	mg/L	0.00097	0.0100	0.00097	9.66%
Ba 233.527†	9656.9	0.8464	mg/L	0.00686	0.8464	0.00686	0.81%
Be 313.107†	3670.7	0.0053	mg/L	0.00020	0.0053	0.00020	3.66%
Ca 317.933†	596329.5	44.32	mg/L	0.199	44.32	0.199	0.45%
Cd 228.802†	21.6	-0.0007	mg/L	0.00037	-0.0007	0.00037	49.87%
Co 228.616†	1856.8	0.0608	mg/L	0.00227	0.0608	0.00227	3.73%
Cr 267.716†	12717.6	0.2688	mg/L	0.00440	0.2688	0.00440	1.64%
Cu 327.393†	6419.2	0.1243	mg/L	0.00137	0.1243	0.00137	1.10%
Fe 238.204†	1355933.2	169.2	mg/L	0.64	169.2	0.64	0.38%
K 766.490†	216908.7	38.70	mg/L	0.086	38.70	0.086	0.22%
Mg 285.213†	660997.8	49.84	mg/L	0.124	49.84	0.124	0.25%
Mn 257.610†	90641.9	2.207	mg/L	0.0231	2.207	0.0231	1.05%
Mo 202.031†	337.2	0.0201	mg/L	0.00013	0.0201	0.00013	0.65%
Na 589.592†	16042.0	1.569	mg/L	0.0334	1.569	0.0334	2.13%
Ni 231.604†	5483.2	0.1550	mg/L	0.00181	0.1550	0.00181	1.17%
Pb 220.353†	447.6	0.0833	mg/L	0.00277	0.0833	0.00277	3.32%
Sb 206.836†	-48.8	-0.0130	mg/L	0.00683	-0.0130	0.00683	52.54%
Se 196.026†	-113.1	0.0434	mg/L	0.00915	0.0434	0.00915	21.09%
Sn 189.927†	160.6	0.0418	mg/L	0.00039	0.0418	0.00039	0.93%
Ti 337.279†	376227.8	10.98	mg/L	0.036	10.98	0.036	0.33%
Tl 351.924†	-2.4	0.0077	mg/L	0.00572	0.0077	0.00572	74.51%
V 290.880†	19363.5	0.2671	mg/L	0.00379	0.2671	0.00379	1.42%
Zn 206.200†	25970.9	0.4871	mg/L	0.01011	0.4871	0.01011	2.08%
Zr 343.823†	3333.4	0.0160	mg/L	0.00061	0.0160	0.00061	3.80%

Batch ID: AVIO 500

Sequence No.: 59

Sample ID: 24D0979-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 57

Date Collected: 4/11/2024 8:10:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0979-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	169067.0	74.2	%	0.55	74.2	0.55	0.74%
Y axial	1654629.2	83.1	%	0.62	83.1	0.62	0.74%
Ag 328.068†	-395.9	-0.0062	mg/L	0.00168	-0.0062	0.00168	27.24%
Al 396.153†	633404.5	147.9	mg/L	1.76	147.9	1.76	1.19%
As 188.979†	150.1	0.1238	mg/L	0.00235	0.1238	0.00235	1.90%
B 208.889†	67.3	0.0093	mg/L	0.00020	0.0093	0.00020	2.18%
Ba 233.527†	14029.8	1.230	mg/L	0.0113	1.230	0.0113	0.92%
Be 313.107†	3660.9	0.0053	mg/L	0.00024	0.0053	0.00024	4.63%
Ca 317.933†	620442.8	46.11	mg/L	0.589	46.11	0.589	1.28%
Cd 228.802†	16.7	-0.0013	mg/L	0.00042	-0.0013	0.00042	32.33%
Co 228.616†	2114.2	0.0719	mg/L	0.00163	0.0719	0.00163	2.27%
Cr 267.716†	13773.7	0.2904	mg/L	0.00364	0.2904	0.00364	1.25%
Cu 327.393†	6798.1	0.1315	mg/L	0.00250	0.1315	0.00250	1.90%
Fe 238.204†	1399148.6	174.6	mg/L	2.30	174.6	2.30	1.31%
K 766.490†	225003.4	40.14	mg/L	0.151	40.14	0.151	0.38%
Mg 285.213†	680842.4	51.33	mg/L	0.581	51.33	0.581	1.13%
Mn 257.610†	137512.2	3.346	mg/L	0.0166	3.346	0.0166	0.49%
Mo 202.031†	392.4	0.0233	mg/L	0.00026	0.0233	0.00026	1.12%
Na 589.592†	16663.1	1.630	mg/L	0.0111	1.630	0.0111	0.68%
Ni 231.604†	5942.3	0.1674	mg/L	0.00218	0.1674	0.00218	1.30%
Pb 220.353†	484.9	0.0899	mg/L	0.00187	0.0899	0.00187	2.08%

Sb 206.836†	-54.9	-0.0154 mg/L	0.00205	-0.0154 mg/L	0.00205	13.35%
Se 196.026†	-131.3	0.0357 mg/L	0.00196	0.0357 mg/L	0.00196	5.50%
Sn 189.927†	152.7	0.0412 mg/L	0.00068	0.0412 mg/L	0.00068	1.65%
Ti 337.279†	389761.9	11.37 mg/L	0.056	11.37 mg/L	0.056	0.50%
Tl 351.924†	-0.2	0.0092 mg/L	0.00248	0.0092 mg/L	0.00248	27.11%
V 290.880†	20730.5	0.2862 mg/L	0.00458	0.2862 mg/L	0.00458	1.60%
Zn 206.200†	28854.2	0.5412 mg/L	0.00704	0.5412 mg/L	0.00704	1.30%
Zr 343.823†	3575.0	0.0175 mg/L	0.00028	0.0175 mg/L	0.00028	1.58%

Batch ID: AVIO 500

Sequence No.: 60

Sample ID: 24D1035-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 58

Date Collected: 4/11/2024 8:19:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1035-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	162704.2	71.4 %		1.19	71.4 %	1.19	1.67%
Y axial	1671012.8	83.9 %		2.24	83.9 %	2.24	2.68%
Ag 328.068†	-232.3	-0.0005 mg/L		0.00129	-0.0005 mg/L	0.00129	278.85%
Al 396.153†	585378.9	136.7 mg/L		0.51	136.7 mg/L	0.51	0.38%
As 188.979†	261.4	0.1996 mg/L		0.01129	0.1996 mg/L	0.01129	5.66%
B 208.889†	167.6	0.0250 mg/L		0.00169	0.0250 mg/L	0.00169	6.76%
Ba 233.527†	4309.7	0.3777 mg/L		0.00805	0.3777 mg/L	0.00805	2.13%
Be 313.107†	4932.5	0.0071 mg/L		0.00034	0.0071 mg/L	0.00034	4.81%
Ca 317.933†	351259.3	26.10 mg/L		0.165	26.10 mg/L	0.165	0.63%
Cd 228.802†	143.9	0.0016 mg/L		0.00059	0.0016 mg/L	0.00059	36.88%
Co 228.616†	2656.8	0.1039 mg/L		0.00278	0.1039 mg/L	0.00278	2.67%
Cr 267.716†	14418.8	0.3053 mg/L		0.00790	0.3053 mg/L	0.00790	2.59%
Cu 327.393†	25979.6	0.4780 mg/L		0.00262	0.4780 mg/L	0.00262	0.55%
Fe 238.204†	1901944.3	237.3 mg/L		1.50	237.3 mg/L	1.50	0.63%
K 766.490†	69911.4	12.47 mg/L		0.066	12.47 mg/L	0.066	0.53%
Mg 285.213†	609966.8	46.05 mg/L		0.171	46.05 mg/L	0.171	0.37%
Mn 257.610†	161982.9	3.943 mg/L		0.0234	3.943 mg/L	0.0234	0.59%
Mo 202.031†	422.3	0.0251 mg/L		0.00145	0.0251 mg/L	0.00145	5.78%
Na 589.592†	50276.8	4.917 mg/L		0.0278	4.917 mg/L	0.0278	0.56%
Ni 231.604†	7618.3	0.2155 mg/L		0.00489	0.2155 mg/L	0.00489	2.27%
Pb 220.353†	10981.0	1.789 mg/L		0.0360	1.789 mg/L	0.0360	2.01%
Sb 206.836†	-5.5	0.0000 mg/L		0.00623	0.0000 mg/L	0.00623	>999.9%
Se 196.026†	-148.9	0.0658 mg/L		0.00164	0.0658 mg/L	0.00164	2.49%
Sn 189.927†	217.3	0.0442 mg/L		0.00146	0.0442 mg/L	0.00146	3.30%
Ti 337.279†	236134.4	6.888 mg/L		0.0276	6.888 mg/L	0.0276	0.40%
Tl 351.924†	-59.9	-0.0035 mg/L		0.00476	-0.0035 mg/L	0.00476	135.47%
V 290.880†	26817.2	0.3674 mg/L		0.00174	0.3674 mg/L	0.00174	0.47%
Zn 206.200†	71064.9	1.331 mg/L		0.0018	1.331 mg/L	0.0018	0.13%
Zr 343.823†	8174.1	0.0469 mg/L		0.00188	0.0469 mg/L	0.00188	4.01%

Batch ID: AVIO 500

Sequence No.: 61

Sample ID: 24D1075-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 59

Date Collected: 4/11/2024 8:28:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	164038.7	72.0 %		1.47	72.0 %	1.47	2.04%
Y axial	1651274.2	82.9 %		0.83	82.9 %	0.83	1.00%
Ag 328.068†	-101.0	0.0141 mg/L		0.00140	0.0141 mg/L	0.00140	9.92%
Al 396.153†	783992.7	183.0 mg/L		1.13	183.0 mg/L	1.13	0.62%
As 188.979†	67.7	0.0844 mg/L		0.00500	0.0844 mg/L	0.00500	5.92%

B	208.889†	703.8	0.1094	mg/L	0.00368	0.1094	mg/L	0.00368	3.37%
Ba	233.527†	16092.5	1.410	mg/L	0.0161	1.410	mg/L	0.0161	1.14%
Be	313.107†	6593.5	0.0076	mg/L	0.00007	0.0076	mg/L	0.00007	0.95%
Ca	317.933†	2946147.5	218.9	mg/L	1.32	218.9	mg/L	1.32	0.60%
Cd	228.802†	144.0	0.0055	mg/L	0.00065	0.0055	mg/L	0.00065	11.75%
Co	228.616†	3941.4	0.1575	mg/L	0.00463	0.1575	mg/L	0.00463	2.94%
Cr	267.716†	9066.5	0.1946	mg/L	0.00414	0.1946	mg/L	0.00414	2.13%
Cu	327.393†	39144.8	0.7232	mg/L	0.00288	0.7232	mg/L	0.00288	0.40%
Fe	238.204†	2378092.7	296.7	mg/L	1.79	296.7	mg/L	1.79	0.60%
K	766.490†	105574.9	18.84	mg/L	0.224	18.84	mg/L	0.224	1.19%
Mg	285.213†	1000028.2	75.39	mg/L	0.461	75.39	mg/L	0.461	0.61%
Mn	257.610†	250888.4	6.105	mg/L	0.0435	6.105	mg/L	0.0435	0.71%
Mo	202.031†	503.3	0.0299	mg/L	0.00095	0.0299	mg/L	0.00095	3.19%
Na	589.592†	100929.6	9.870	mg/L	0.0660	9.870	mg/L	0.0660	0.67%
Ni	231.604†	7479.5	0.2143	mg/L	0.00550	0.2143	mg/L	0.00550	2.57%
Pb	220.353†	13310.9	2.170	mg/L	0.0542	2.170	mg/L	0.0542	2.50%
Sb	206.836†	-30.0	-0.0049	mg/L	0.00546	-0.0049	mg/L	0.00546	110.99%
Se	196.026†	-198.1	0.0746	mg/L	0.00200	0.0746	mg/L	0.00200	2.68%
Sn	189.927†	410.4	0.0774	mg/L	0.00138	0.0774	mg/L	0.00138	1.78%
Ti	337.279†	312304.9	9.110	mg/L	0.0652	9.110	mg/L	0.0652	0.72%
Tl	351.924†	-59.3	0.0034	mg/L	0.00501	0.0034	mg/L	0.00501	145.87%
V	290.880†	75664.7	1.055	mg/L	0.0063	1.055	mg/L	0.0063	0.60%
Zn	206.200†	94453.8	1.767	mg/L	0.0079	1.767	mg/L	0.0079	0.45%
Zr	343.823†	18163.0	0.1141	mg/L	0.00326	0.1141	mg/L	0.00326	2.85%

Solid State RF Generator: Failed to Connect Generator.

Sample Prep Vol:

Wash Time (before sample): 200

Sample Prep Vol:

Analyte		Mean	Corrected	Calib.	Std.Dev.	Conc.	Units	Std.Dev.	RSD
		Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial		192083.6	84.4	%	0.60	84.4	%	0.60	0.71%
Y axial		1901390.6	95.4	%	0.45	95.4	%	0.45	0.47%
Ag 328.068†		80379.8	2.451	mg/L	0.0172	2.451	mg/L	0.0172	0.70%
	QC value within limits for Ag 328.068			Recovery = 98.05%					
Al 396.153†		44725.8	10.07	mg/L	0.063	10.07	mg/L	0.063	0.62%
	QC value within limits for Al 396.153			Recovery = 100.67%					
As 188.979†		8557.6	5.425	mg/L	0.0205	5.425	mg/L	0.0205	0.38%
	QC value within limits for As 188.979			Recovery = 108.51%					
B 208.889†		33548.2	5.000	mg/L	0.0541	5.000	mg/L	0.0541	1.08%
	QC value within limits for B 208.889			Recovery = 100.01%					
Ba 233.527†		50863.3	4.458	mg/L	0.0028	4.458	mg/L	0.0028	0.06%
	QC value less than the lower limit for Ba 233.527			Recovery = 89.16%					
Be 313.107†		2863989.9	4.863	mg/L	0.0588	4.863	mg/L	0.0588	1.21%
	QC value within limits for Be 313.107			Recovery = 97.25%					
Ca 317.933†		136384.1	10.14	mg/L	0.024	10.14	mg/L	0.024	0.23%
	QC value within limits for Ca 317.933			Recovery = 101.35%					
Cd 228.802†		129706.5	5.064	mg/L	0.0269	5.064	mg/L	0.0269	0.53%
	QC value within limits for Cd 228.802			Recovery = 101.29%					
Co 228.616†		116567.3	5.152	mg/L	0.0342	5.152	mg/L	0.0342	0.66%
	QC value within limits for Co 228.616			Recovery = 103.04%					
Cr 267.716†		245794.0	5.129	mg/L	0.0225	5.129	mg/L	0.0225	0.44%
	QC value within limits for Cr 267.716			Recovery = 102.58%					

Cu 327.393†	274806.3	5.035 mg/L	0.0158	5.035 mg/L	0.0158	0.31%
QC value within limits for Cu 327.393 Recovery = 100.70%						
Fe 238.204†	39684.0	5.014 mg/L	0.0069	5.014 mg/L	0.0069	0.14%
QC value within limits for Fe 238.204 Recovery = 100.29%						
K 766.490†	59714.6	10.65 mg/L	0.079	10.65 mg/L	0.079	0.74%
QC value within limits for K 766.490 Recovery = 106.54%						
Mg 285.213†	129797.8	9.750 mg/L	0.0367	9.750 mg/L	0.0367	0.38%
QC value within limits for Mg 285.213 Recovery = 97.50%						
Mn 257.610†	205877.3	5.003 mg/L	0.0166	5.003 mg/L	0.0166	0.33%
QC value within limits for Mn 257.610 Recovery = 100.06%						
Mo 202.031†	86780.9	5.162 mg/L	0.0336	5.162 mg/L	0.0336	0.65%
QC value within limits for Mo 202.031 Recovery = 103.24%						
Na 589.592†	104518.8	10.22 mg/L	0.043	10.22 mg/L	0.043	0.42%
QC value within limits for Na 589.592 Recovery = 102.21%						
Ni 231.604†	194733.1	5.213 mg/L	0.0378	5.213 mg/L	0.0378	0.73%
QC value within limits for Ni 231.604 Recovery = 104.25%						
Pb 220.353†	32803.9	5.333 mg/L	0.0557	5.333 mg/L	0.0557	1.04%
QC value within limits for Pb 220.353 Recovery = 106.67%						
Sb 206.836†	13051.7	5.256 mg/L	0.0508	5.256 mg/L	0.0508	0.97%
QC value within limits for Sb 206.836 Recovery = 105.12%						
Se 196.026†	9623.9	5.482 mg/L	0.0452	5.482 mg/L	0.0452	0.82%
QC value within limits for Se 196.026 Recovery = 109.63%						
Sn 189.927†	35972.6	5.557 mg/L	0.0413	5.557 mg/L	0.0413	0.74%
QC value greater than the upper limit for Sn 189.927 Recovery = 111.13%						
Ti 337.279†	169940.1	4.955 mg/L	0.0079	4.955 mg/L	0.0079	0.16%
QC value within limits for Ti 337.279 Recovery = 99.10%						
Tl 351.924†	4980.6	2.978 mg/L	0.0251	2.978 mg/L	0.0251	0.84%
QC value greater than the upper limit for Tl 351.924 Recovery = 119.11%						
V 290.880†	358837.3	5.059 mg/L	0.0275	5.059 mg/L	0.0275	0.54%
QC value within limits for V 290.880 Recovery = 101.18%						
Zn 206.200†	292269.6	5.493 mg/L	0.0352	5.493 mg/L	0.0352	0.64%
QC value within limits for Zn 206.200 Recovery = 109.86%						
Zr 343.823†	748280.2	5.222 mg/L	0.0273	5.222 mg/L	0.0273	0.52%
QC value within limits for Zr 343.823 Recovery = 104.44%						
QC Failed. Continue with analysis.						

Batch ID: AVIO 500

Sequence No.: 63

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 9:18:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	222498.0	97.7 %	0.99	97.7 %	0.99	1.01%
Y axial	2062552.5	104 %	1.10	104 %	1.10	1.07%
Ag 328.068†	65.6	0.0020 mg/L	0.00095	0.0020 mg/L	0.00095	47.59%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-20.2	-0.0048 mg/L	0.00311	-0.0048 mg/L	0.00311	64.43%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	8.9	0.0057 mg/L	0.00109	0.0057 mg/L	0.00109	19.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	22.3	0.0034 mg/L	0.00078	0.0034 mg/L	0.00078	22.80%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	7.6	0.0007 mg/L	0.00031	0.0007 mg/L	0.00031	46.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-401.1	-0.0007 mg/L	0.00006	-0.0007 mg/L	0.00006	8.86%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-42.5	-0.0032 mg/L	0.00378	-0.0032 mg/L	0.00378	119.78%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-17.7	-0.0009 mg/L	0.00011	-0.0009 mg/L	0.00011	12.43%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-15.2	-0.0007 mg/L	0.00064	-0.0007 mg/L	0.00064	95.61%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	4.1	0.0001 mg/L	0.00029	0.0001 mg/L	0.00029	339.71%

QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	-65.8	-0.0012 mg/L	0.00072	-0.0012 mg/L	0.00072	60.24%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	26.3	0.0033 mg/L	0.00038	0.0033 mg/L	0.00038	11.53%	
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	-292.9	-0.0523 mg/L	0.00134	-0.0523 mg/L	0.00134	2.56%	
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	-18.6	-0.0014 mg/L	0.00049	-0.0014 mg/L	0.00049	35.41%	
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	-9.4	-0.0002 mg/L	0.00023	-0.0002 mg/L	0.00023	101.07%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	29.4	0.0018 mg/L	0.00040	0.0018 mg/L	0.00040	22.99%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-662.1	-0.0647 mg/L	0.00548	-0.0647 mg/L	0.00548	8.47%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-5.6	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	113.03%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	21.1	0.0034 mg/L	0.00079	0.0034 mg/L	0.00079	23.02%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-6.3	-0.0025 mg/L	0.00639	-0.0025 mg/L	0.00639	255.71%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.9	0.0034 mg/L	0.00384	0.0034 mg/L	0.00384	113.34%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	8.3	0.0013 mg/L	0.00037	0.0013 mg/L	0.00037	28.51%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	14.6	0.0004 mg/L	0.00088	0.0004 mg/L	0.00088	207.25%	
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 351.924†	-4.6	-0.0027 mg/L	0.00599	-0.0027 mg/L	0.00599	224.90%	
QC value within limits for Tl 351.924 Recovery = Not calculated							
V 290.880†	20.0	0.0003 mg/L	0.00063	0.0003 mg/L	0.00063	223.27%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	30.3	0.0006 mg/L	0.00035	0.0006 mg/L	0.00035	61.36%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
Zr 343.823†	129.1	0.0009 mg/L	0.00046	0.0009 mg/L	0.00046	50.97%	
All analyte(s) passed QC.							

Batch ID: AVIO 500

Sequence No.: 64

Sample ID: 24D1075-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 60

Date Collected: 4/11/2024 9:26:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	206883.1	90.8 %		0.35	90.8 %	0.35	0.39%
Y axial	1867518.6	93.7 %		0.55	93.7 %	0.55	0.59%
Ag 328.068†	-584.9	-0.0028 mg/L		0.00125	-0.0028 mg/L	0.00125	44.82%
Al 396.153†	650197.3	151.7 mg/L		1.20	151.7 mg/L	1.20	0.79%
As 188.979†	105.7	0.1099 mg/L		0.00086	0.1099 mg/L	0.00086	0.78%
B 208.889†	653.6	0.1014 mg/L		0.00076	0.1014 mg/L	0.00076	0.75%
Ba 233.527†	23970.4	2.101 mg/L		0.0054	2.101 mg/L	0.0054	0.26%
Be 313.107†	5481.1	0.0069 mg/L		0.00004	0.0069 mg/L	0.00004	0.51%
Ca 317.933†	2746911.9	204.1 mg/L		1.88	204.1 mg/L	1.88	0.92%
Cd 228.802†	162.5	0.0058 mg/L		0.00083	0.0058 mg/L	0.00083	14.50%
Co 228.616†	3257.1	0.1290 mg/L		0.00110	0.1290 mg/L	0.00110	0.86%
Cr 267.716†	13448.7	0.2858 mg/L		0.00243	0.2858 mg/L	0.00243	0.85%
Cu 327.393†	65607.1	1.205 mg/L		0.0079	1.205 mg/L	0.0079	0.66%
Fe 238.204†	2486234.0	310.2 mg/L		2.66	310.2 mg/L	2.66	0.86%
K 766.490†	94600.8	16.88 mg/L		0.016	16.88 mg/L	0.016	0.09%
Mg 285.213†	900883.1	67.94 mg/L		0.638	67.94 mg/L	0.638	0.94%
Mn 257.610†	282469.4	6.872 mg/L		0.0394	6.872 mg/L	0.0394	0.57%
Mo 202.031†	503.9	0.0300 mg/L		0.00065	0.0300 mg/L	0.00065	2.17%
Na 589.592†	60854.3	5.951 mg/L		0.0196	5.951 mg/L	0.0196	0.33%
Ni 231.604†	7187.6	0.2070 mg/L		0.00169	0.2070 mg/L	0.00169	0.81%
Pb 220.353†	22139.1	3.599 mg/L		0.0338	3.599 mg/L	0.0338	0.94%

Sb 206.836†	-7.5	0.0017 mg/L	0.00503	0.0017 mg/L	0.00503	289.14%
Se 196.026†	-186.3	0.0895 mg/L	0.00480	0.0895 mg/L	0.00480	5.37%
Sn 189.927†	983.5	0.1651 mg/L	0.00106	0.1651 mg/L	0.00106	0.64%
Ti 337.279†	296390.9	8.646 mg/L	0.0287	8.646 mg/L	0.0287	0.33%
Tl 351.924†	-35.8	0.0216 mg/L	0.01197	0.0216 mg/L	0.01197	55.47%
V 290.880†	51376.0	0.7111 mg/L	0.00506	0.7111 mg/L	0.00506	0.71%
Zn 206.200†	175717.1	3.288 mg/L	0.0285	3.288 mg/L	0.0285	0.87%
Zr 343.823†	19760.7	0.1246 mg/L	0.00099	0.1246 mg/L	0.00099	0.79%

Batch ID: AVIO 500

Sequence No.: 65

Sample ID: 24D1075-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 61

Date Collected: 4/11/2024 9:35:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	205776.0	90.4 %		1.21	90.4 %	1.21	1.33%
Y axial	1875488.3	94.1 %		1.07	94.1 %	1.07	1.13%
Ag 328.068†	-464.6	-0.0018 mg/L		0.00119	-0.0018 mg/L	0.00119	65.93%
Al 396.153†	564940.9	131.8 mg/L		0.30	131.8 mg/L	0.30	0.23%
As 188.979†	240.8	0.1931 mg/L		0.00693	0.1931 mg/L	0.00693	3.59%
B 208.889†	2920.8	0.4595 mg/L		0.00530	0.4595 mg/L	0.00530	1.15%
Ba 233.527†	38914.0	3.411 mg/L		0.0256	3.411 mg/L	0.0256	0.75%
Be 313.107†	5560.3	0.0073 mg/L		0.00019	0.0073 mg/L	0.00019	2.61%
Ca 317.933†	1949386.2	144.9 mg/L		0.76	144.9 mg/L	0.76	0.52%
Cd 228.802†	161.0	0.0037 mg/L		0.00015	0.0037 mg/L	0.00015	4.11%
Co 228.616†	2942.2	0.1195 mg/L		0.00187	0.1195 mg/L	0.00187	1.56%
Cr 267.716†	10397.7	0.2204 mg/L		0.00231	0.2204 mg/L	0.00231	1.05%
Cu 327.393†	56501.1	1.037 mg/L		0.0099	1.037 mg/L	0.0099	0.95%
Fe 238.204†	2345290.2	292.7 mg/L		1.11	292.7 mg/L	1.11	0.38%
K 766.490†	89410.6	15.95 mg/L		0.040	15.95 mg/L	0.040	0.25%
Mg 285.213†	727583.8	54.91 mg/L		0.150	54.91 mg/L	0.150	0.27%
Mn 257.610†	392663.6	9.550 mg/L		0.0288	9.550 mg/L	0.0288	0.30%
Mo 202.031†	424.3	0.0252 mg/L		0.00022	0.0252 mg/L	0.00022	0.88%
Na 589.592†	29841.4	2.918 mg/L		0.0074	2.918 mg/L	0.0074	0.25%
Ni 231.604†	6463.0	0.1862 mg/L		0.00097	0.1862 mg/L	0.00097	0.52%
Pb 220.353†	24230.8	3.936 mg/L		0.0255	3.936 mg/L	0.0255	0.65%
Sb 206.836†	-7.0	0.0016 mg/L		0.00525	0.0016 mg/L	0.00525	320.01%
Se 196.026†	-165.1	0.0883 mg/L		0.00167	0.0883 mg/L	0.00167	1.89%
Sn 189.927†	1040.7	0.1719 mg/L		0.00208	0.1719 mg/L	0.00208	1.21%
Ti 337.279†	252056.6	7.353 mg/L		0.0174	7.353 mg/L	0.0174	0.24%
Tl 351.924†	-55.5	0.0089 mg/L		0.01073	0.0089 mg/L	0.01073	120.75%
V 290.880†	46648.5	0.6443 mg/L		0.00656	0.6443 mg/L	0.00656	1.02%
Zn 206.200†	164016.1	3.069 mg/L		0.0292	3.069 mg/L	0.0292	0.95%
Zr 343.823†	14115.9	0.0860 mg/L		0.00090	0.0860 mg/L	0.00090	1.04%

Batch ID: AVIO 500

Sequence No.: 66

Sample ID: 24D1075-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 62

Date Collected: 4/11/2024 9:44:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	209405.2	92.0 %		0.51	92.0 %	0.51	0.55%
Y axial	1926394.3	96.7 %		0.44	96.7 %	0.44	0.46%
Ag 328.068†	-393.2	0.0005 mg/L		0.00201	0.0005 mg/L	0.00201	399.49%
Al 396.153†	594357.9	138.7 mg/L		0.21	138.7 mg/L	0.21	0.15%
As 188.979†	560.2	0.4030 mg/L		0.00765	0.4030 mg/L	0.00765	1.90%

B	208.889†	505.4	0.0780 mg/L	0.00051	0.0780 mg/L	0.00051	0.66%
Ba	233.527†	48108.2	4.217 mg/L	0.0302	4.217 mg/L	0.0302	0.72%
Be	313.107†	6162.1	0.0079 mg/L	0.00019	0.0079 mg/L	0.00019	2.38%
Ca	317.933†	1298608.8	96.50 mg/L	0.204	96.50 mg/L	0.204	0.21%
Cd	228.802†	265.0	0.0025 mg/L	0.00034	0.0025 mg/L	0.00034	13.82%
Co	228.616†	3278.0	0.1358 mg/L	0.00133	0.1358 mg/L	0.00133	0.98%
Cr	267.716†	14254.5	0.3034 mg/L	0.00096	0.3034 mg/L	0.00096	0.32%
Cu	327.393†	107709.8	1.968 mg/L	0.0218	1.968 mg/L	0.0218	1.11%
Fe	238.204†	2746487.0	342.7 mg/L	0.76	342.7 mg/L	0.76	0.22%
K	766.490†	88272.4	15.75 mg/L	0.023	15.75 mg/L	0.023	0.15%
Mg	285.213†	655096.5	49.50 mg/L	0.110	49.50 mg/L	0.110	0.22%
Mn	257.610†	286215.9	6.964 mg/L	0.0161	6.964 mg/L	0.0161	0.23%
Mo	202.031†	508.6	0.0303 mg/L	0.00029	0.0303 mg/L	0.00029	0.96%
Na	589.592†	32809.3	3.209 mg/L	0.0160	3.209 mg/L	0.0160	0.50%
Ni	231.604†	8175.0	0.2347 mg/L	0.00163	0.2347 mg/L	0.00163	0.70%
Pb	220.353†	27894.8	4.530 mg/L	0.0629	4.530 mg/L	0.0629	1.39%
Sb	206.836†	41.9	0.0199 mg/L	0.00474	0.0199 mg/L	0.00474	23.89%
Se	196.026†	-200.8	0.1022 mg/L	0.00529	0.1022 mg/L	0.00529	5.17%
Sn	189.927†	2930.4	0.4631 mg/L	0.00312	0.4631 mg/L	0.00312	0.67%
Ti	337.279†	244111.0	7.121 mg/L	0.0127	7.121 mg/L	0.0127	0.18%
Tl	351.924†	-71.8	0.0094 mg/L	0.00711	0.0094 mg/L	0.00711	75.72%
V	290.880†	54876.7	0.7564 mg/L	0.00900	0.7564 mg/L	0.00900	1.19%
Zn	206.200†	141122.3	2.642 mg/L	0.0398	2.642 mg/L	0.0398	1.51%
Zr	343.823†	14444.9	0.0861 mg/L	0.00047	0.0861 mg/L	0.00047	0.54%

Batch ID: AVIO 500

Sequence No.: 67

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 11

Date Collected: 4/11/2024 9:52:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

		Mean Corrected		Calib.		Sample			
Analyte		Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial		205511.6	90.2	%	0.77	90.2	%	0.77	0.85%
Y axial		1820049.6	91.4	%	0.17	91.4	%	0.17	0.18%
Ag	328.068†	-516.9	-0.0059	mg/L	0.00045	-0.0059	mg/L	0.00045	7.64%
	QC value	within limits	for Ag	328.068	Recovery =	Not calculated			
Al	396.153†	1040338.7	242.8	mg/L	0.22	242.8	mg/L	0.22	0.09%
	QC value	within limits	for Al	396.153	Recovery =	97.12%			
As	188.979†	-6.9	0.0071	mg/L	0.00169	0.0071	mg/L	0.00169	24.02%
	QC value	within limits	for As	188.979	Recovery =	Not calculated			
B	208.889†	1.2	-0.0020	mg/L	0.00196	-0.0020	mg/L	0.00196	98.29%
	QC value	within limits	for B	208.889	Recovery =	Not calculated			
Ba	233.527†	91.7	0.0080	mg/L	0.00014	0.0080	mg/L	0.00014	1.75%
	QC value	within limits	for Ba	233.527	Recovery =	Not calculated			
Be	313.107†	-282.9	-0.0004	mg/L	0.00004	-0.0004	mg/L	0.00004	10.11%
	QC value	within limits	for Be	313.107	Recovery =	Not calculated			
Ca	317.933†	3240040.0	240.8	mg/L	0.42	240.8	mg/L	0.42	0.18%
	QC value	within limits	for Ca	317.933	Recovery =	96.31%			
Cd	228.802†	-26.1	-0.0009	mg/L	0.00022	-0.0009	mg/L	0.00022	24.20%
	QC value	within limits	for Cd	228.802	Recovery =	Not calculated			
Co	228.616†	-48.6	-0.0021	mg/L	0.00021	-0.0021	mg/L	0.00021	9.83%
	QC value	within limits	for Co	228.616	Recovery =	Not calculated			
Cr	267.716†	290.9	0.0085	mg/L	0.00053	0.0085	mg/L	0.00053	6.22%
	QC value	within limits	for Cr	267.716	Recovery =	Not calculated			
Cu	327.393†	-700.1	-0.0084	mg/L	0.00169	-0.0084	mg/L	0.00169	20.14%
	QC value	within limits	for Cu	327.393	Recovery =	Not calculated			
Fe	238.204†	768025.3	95.84	mg/L	0.097	95.84	mg/L	0.097	0.10%
	QC value	within limits	for Fe	238.204	Recovery =	95.84%			
K	766.490†	-141.5	-0.0252	mg/L	0.02960	-0.0252	mg/L	0.02960	117.26%
	QC value	within limits	for K	766.490	Recovery =	Not calculated			
Mg	285.213†	2961503.9	222.8	mg/L	0.26	222.8	mg/L	0.26	0.12%
	QC value	within limits	for Mg	285.213	Recovery =	89.12%			
Mn	257.610†	-270.1	-0.0040	mg/L	0.00030	-0.0040	mg/L	0.00030	7.63%
	QC value	within limits	for Mn	257.610	Recovery =	Not calculated			

Mo 202.031†	646.2	0.0384 mg/L	0.00066	0.0384 mg/L	0.00066	1.72%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-74.3	-0.0073 mg/L	0.00333	-0.0073 mg/L	0.00333	45.84%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-234.7	-0.0014 mg/L	0.00364	-0.0014 mg/L	0.00364	256.30%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-97.8	0.0058 mg/L	0.00176	0.0058 mg/L	0.00176	30.42%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	11.8	0.0053 mg/L	0.00910	0.0053 mg/L	0.00910	171.02%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-62.9	0.0261 mg/L	0.00181	0.0261 mg/L	0.00181	6.91%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-47.5	-0.0073 mg/L	0.00064	-0.0073 mg/L	0.00064	8.71%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-37.3	-0.0011 mg/L	0.00090	-0.0011 mg/L	0.00090	82.58%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-49.1	-0.0101 mg/L	0.01420	-0.0101 mg/L	0.01420	140.97%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	-1198.6	-0.0003 mg/L	0.00090	-0.0003 mg/L	0.00090	349.91%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	16.0	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	38.07%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	578.8	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	197.99%
All analyte(s) passed QC.						

Batch ID: AVIO 500

Sequence No.: 68

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 12

Date Collected: 4/11/2024 10:00:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	206863.4	90.8 %		0.35	90.8 %	0.35	0.39%
Y axial	1838894.5	92.3 %		0.45	92.3 %	0.45	0.49%
Ag 328.068†	12588.9	0.4001 mg/L		0.00875	0.4001 mg/L	0.00875	2.19%
QC value within limits for Ag 328.068	Recovery = 100.02%						
Al 396.153†	1040774.7	242.9 mg/L		0.72	242.9 mg/L	0.72	0.30%
QC value within limits for Al 396.153	Recovery = 97.17%						
As 188.979†	311.7	0.2085 mg/L		0.00239	0.2085 mg/L	0.00239	1.15%
QC value within limits for As 188.979	Recovery = 104.24%						
B 208.889†	4.0	-0.0016 mg/L		0.00069	-0.0016 mg/L	0.00069	43.23%
QC value within limits for B 208.889	Recovery = Not calculated						
Ba 233.527†	10942.6	0.9591 mg/L		0.00146	0.9591 mg/L	0.00146	0.15%
QC value within limits for Ba 233.527	Recovery = 95.91%						
Be 313.107†	563114.2	0.9560 mg/L		0.00236	0.9560 mg/L	0.00236	0.25%
QC value within limits for Be 313.107	Recovery = 95.60%						
Ca 317.933†	3250245.9	241.5 mg/L		0.89	241.5 mg/L	0.89	0.37%
QC value within limits for Ca 317.933	Recovery = 96.62%						
Cd 228.802†	50707.9	2.030 mg/L		0.0080	2.030 mg/L	0.0080	0.39%
QC value within limits for Cd 228.802	Recovery = 101.48%						
Co 228.616†	20393.8	0.9025 mg/L		0.00214	0.9025 mg/L	0.00214	0.24%
QC value within limits for Co 228.616	Recovery = 90.25%						
Cr 267.716†	48227.6	1.009 mg/L		0.0053	1.009 mg/L	0.0053	0.53%
QC value within limits for Cr 267.716	Recovery = 100.86%						
Cu 327.393†	49910.3	0.9134 mg/L		0.00699	0.9134 mg/L	0.00699	0.76%
QC value within limits for Cu 327.393	Recovery = 91.34%						
Fe 238.204†	772842.5	96.45 mg/L		0.270	96.45 mg/L	0.270	0.28%
QC value within limits for Fe 238.204	Recovery = 96.45%						
K 766.490†	-304.9	-0.0544 mg/L		0.03395	-0.0544 mg/L	0.03395	62.42%
QC value within limits for K 766.490	Recovery = Not calculated						
Mg 285.213†	2956129.7	222.4 mg/L		0.56	222.4 mg/L	0.56	0.25%
QC value within limits for Mg 285.213	Recovery = 88.96%						
Mn 257.610†	38020.7	0.9265 mg/L		0.00102	0.9265 mg/L	0.00102	0.11%
QC value within limits for Mn 257.610	Recovery = 92.65%						

Mo 202.031†	658.7	0.0392 mg/L	0.00027	0.0392 mg/L	0.00027	0.70%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-37.6	-0.0037 mg/L	0.01957	-0.0037 mg/L	0.01957	532.61%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	69077.4	1.855 mg/L	0.0095	1.855 mg/L	0.0095	0.51%
QC value within limits for Ni 231.604 Recovery = 92.75%						
Pb 220.353†	452.7	0.0941 mg/L	0.00117	0.0941 mg/L	0.00117	1.25%
QC value within limits for Pb 220.353 Recovery = 94.14%						
Sb 206.836†	2748.1	1.088 mg/L	0.0061	1.088 mg/L	0.0061	0.56%
QC value within limits for Sb 206.836 Recovery = 90.68%						
Se 196.026†	872.4	0.5586 mg/L	0.00961	0.5586 mg/L	0.00961	1.72%
QC value within limits for Se 196.026 Recovery = 111.72%						
Sn 189.927†	-50.6	-0.0078 mg/L	0.00085	-0.0078 mg/L	0.00085	10.95%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-64.3	-0.0019 mg/L	0.00215	-0.0019 mg/L	0.00215	114.33%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	361.8	0.2287 mg/L	0.00903	0.2287 mg/L	0.00903	3.95%
QC value within limits for Tl 351.924 Recovery = 114.33%						
V 290.880†	70120.5	1.005 mg/L	0.0056	1.005 mg/L	0.0056	0.56%
QC value within limits for V 290.880 Recovery = 100.48%						
Zn 206.200†	106597.5	2.000 mg/L	0.0119	2.000 mg/L	0.0119	0.59%
QC value within limits for Zn 206.200 Recovery = 99.98%						
Zr 343.823†	604.8	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	105.31%

All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 69

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 5

Date Collected: 4/11/2024 10:09:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	209243.1	91.9 %	0.19	91.9 %	0.19	0.21%
Y axial	1977164.4	99.3 %	0.87	99.3 %	0.87	0.88%
Ag 328.068†	81581.7	2.487 mg/L	0.0434	2.487 mg/L	0.0434	1.75%
QC value within limits for Ag 328.068 Recovery = 99.48%						
Al 396.153†	41988.2	9.433 mg/L	0.0278	9.433 mg/L	0.0278	0.29%
QC value within limits for Al 396.153 Recovery = 94.33%						
As 188.979†	8070.5	5.115 mg/L	0.0747	5.115 mg/L	0.0747	1.46%
QC value within limits for As 188.979 Recovery = 102.31%						
B 208.889†	31227.8	4.642 mg/L	0.1069	4.642 mg/L	0.1069	2.30%
QC value within limits for B 208.889 Recovery = 92.83%						
Ba 233.527†	51945.0	4.553 mg/L	0.0501	4.553 mg/L	0.0501	1.10%
QC value within limits for Ba 233.527 Recovery = 91.06%						
Be 313.107†	2776433.6	4.714 mg/L	0.0454	4.714 mg/L	0.0454	0.96%
QC value within limits for Be 313.107 Recovery = 94.27%						
Ca 317.933†	130989.1	9.734 mg/L	0.0343	9.734 mg/L	0.0343	0.35%
QC value within limits for Ca 317.933 Recovery = 97.34%						
Cd 228.802†	125643.5	4.910 mg/L	0.0268	4.910 mg/L	0.0268	0.55%
QC value within limits for Cd 228.802 Recovery = 98.20%						
Co 228.616†	113406.6	5.012 mg/L	0.0157	5.012 mg/L	0.0157	0.31%
QC value within limits for Co 228.616 Recovery = 100.25%						
Cr 267.716†	241811.7	5.046 mg/L	0.0146	5.046 mg/L	0.0146	0.29%
QC value within limits for Cr 267.716 Recovery = 100.92%						
Cu 327.393†	265188.3	4.860 mg/L	0.0240	4.860 mg/L	0.0240	0.49%
QC value within limits for Cu 327.393 Recovery = 97.21%						
Fe 238.204†	38532.5	4.869 mg/L	0.0151	4.869 mg/L	0.0151	0.31%
QC value within limits for Fe 238.204 Recovery = 97.38%						
K 766.490†	54837.1	9.784 mg/L	0.0592	9.784 mg/L	0.0592	0.61%
QC value within limits for K 766.490 Recovery = 97.84%						
Mg 285.213†	126093.1	9.471 mg/L	0.0237	9.471 mg/L	0.0237	0.25%
QC value within limits for Mg 285.213 Recovery = 94.71%						
Mn 257.610†	198467.6	4.823 mg/L	0.0114	4.823 mg/L	0.0114	0.24%
QC value within limits for Mn 257.610 Recovery = 96.46%						

Mo 202.031†	84578.6	5.031 mg/L	0.0198	5.031 mg/L	0.0198	0.39%
QC value within limits for Mo 202.031			Recovery = 100.62%			
Na 589.592†	100229.1	9.802 mg/L	0.0324	9.802 mg/L	0.0324	0.33%
QC value within limits for Na 589.592			Recovery = 98.02%			
Ni 231.604†	190766.9	5.106 mg/L	0.0105	5.106 mg/L	0.0105	0.21%
QC value within limits for Ni 231.604			Recovery = 102.13%			
Pb 220.353†	29350.1	4.773 mg/L	0.0897	4.773 mg/L	0.0897	1.88%
QC value within limits for Pb 220.353			Recovery = 95.46%			
Sb 206.836†	12127.5	4.884 mg/L	0.0887	4.884 mg/L	0.0887	1.82%
QC value within limits for Sb 206.836			Recovery = 97.67%			
Se 196.026†	8779.4	5.001 mg/L	0.1112	5.001 mg/L	0.1112	2.22%
QC value within limits for Se 196.026			Recovery = 100.01%			
Sn 189.927†	33286.8	5.142 mg/L	0.1152	5.142 mg/L	0.1152	2.24%
QC value within limits for Sn 189.927			Recovery = 102.84%			
Ti 337.279†	163726.2	4.774 mg/L	0.0141	4.774 mg/L	0.0141	0.30%
QC value within limits for Ti 337.279			Recovery = 95.48%			
Tl 351.924†	4701.3	2.817 mg/L	0.0457	2.817 mg/L	0.0457	1.62%
QC value greater than the upper limit for Tl 351.924			Recovery = 112.67%			
V 290.880†	355440.0	5.011 mg/L	0.0201	5.011 mg/L	0.0201	0.40%
QC value within limits for V 290.880			Recovery = 100.22%			
Zn 206.200†	281052.1	5.283 mg/L	0.0116	5.283 mg/L	0.0116	0.22%
QC value within limits for Zn 206.200			Recovery = 105.65%			
Zr 343.823†	762082.6	5.318 mg/L	0.0218	5.318 mg/L	0.0218	0.41%
QC value within limits for Zr 343.823			Recovery = 106.37%			
QC Failed. Retry.						

Batch ID: AVIO 500

Sequence No.: 70

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 5

Date Collected: 4/11/2024 10:14:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	192508.8	84.5 %	1.17	84.5 %	1.17	1.38%
Y axial	1937923.0	97.3 %	0.57	97.3 %	0.57	0.58%
Ag 328.068†	82622.9	2.519 mg/L	0.0155	2.519 mg/L	0.0155	0.62%
QC value within limits for Ag 328.068			Recovery = 100.76%			
Al 396.153†	43288.5	9.734 mg/L	0.0341	9.734 mg/L	0.0341	0.35%
QC value within limits for Al 396.153			Recovery = 97.34%			
As 188.979†	8393.3	5.321 mg/L	0.0673	5.321 mg/L	0.0673	1.26%
QC value within limits for As 188.979			Recovery = 106.42%			
B 208.889†	31567.5	4.692 mg/L	0.0526	4.692 mg/L	0.0526	1.12%
QC value within limits for B 208.889			Recovery = 93.84%			
Ba 233.527†	48542.3	4.255 mg/L	0.0870	4.255 mg/L	0.0870	2.04%
QC value less than the lower limit for Ba 233.527			Recovery = 85.09%			
Be 313.107†	2648168.8	4.495 mg/L	0.0079	4.495 mg/L	0.0079	0.18%
QC value less than the lower limit for Be 313.107			Recovery = 89.90%			
Ca 317.933†	131455.1	9.769 mg/L	0.0578	9.769 mg/L	0.0578	0.59%
QC value within limits for Ca 317.933			Recovery = 97.69%			
Cd 228.802†	127199.9	4.966 mg/L	0.0191	4.966 mg/L	0.0191	0.38%
QC value within limits for Cd 228.802			Recovery = 99.33%			
Co 228.616†	114429.6	5.057 mg/L	0.0151	5.057 mg/L	0.0151	0.30%
QC value within limits for Co 228.616			Recovery = 101.15%			
Cr 267.716†	242983.4	5.070 mg/L	0.0127	5.070 mg/L	0.0127	0.25%
QC value within limits for Cr 267.716			Recovery = 101.41%			
Cu 327.393†	266028.1	4.876 mg/L	0.0148	4.876 mg/L	0.0148	0.30%
QC value within limits for Cu 327.393			Recovery = 97.51%			
Fe 238.204†	37856.8	4.785 mg/L	0.0333	4.785 mg/L	0.0333	0.70%
QC value within limits for Fe 238.204			Recovery = 95.70%			
K 766.490†	54621.6	9.745 mg/L	0.0769	9.745 mg/L	0.0769	0.79%
QC value within limits for K 766.490			Recovery = 97.45%			
Mg 285.213†	124323.0	9.337 mg/L	0.0530	9.337 mg/L	0.0530	0.57%
QC value within limits for Mg 285.213			Recovery = 93.37%			
Mn 257.610†	195154.6	4.742 mg/L	0.0303	4.742 mg/L	0.0303	0.64%

QC value within limits for Mn 257.610	Recovery = 94.85%				
Mo 202.031†	85600.1	5.092 mg/L	0.0108	5.092 mg/L	0.0108 0.21%
QC value within limits for Mo 202.031	Recovery = 101.83%				
Na 589.592†	100422.0	9.821 mg/L	0.0506	9.821 mg/L	0.0506 0.52%
QC value within limits for Na 589.592	Recovery = 98.21%				
Ni 231.604†	192703.6	5.158 mg/L	0.0139	5.158 mg/L	0.0139 0.27%
QC value within limits for Ni 231.604	Recovery = 103.17%				
Pb 220.353†	30449.6	4.951 mg/L	0.0638	4.951 mg/L	0.0638 1.29%
QC value within limits for Pb 220.353	Recovery = 99.03%				
Sb 206.836†	12449.5	5.014 mg/L	0.0467	5.014 mg/L	0.0467 0.93%
QC value within limits for Sb 206.836	Recovery = 100.27%				
Se 196.026†	9114.9	5.192 mg/L	0.0758	5.192 mg/L	0.0758 1.46%
QC value within limits for Se 196.026	Recovery = 103.83%				
Sn 189.927†	34478.6	5.326 mg/L	0.0675	5.326 mg/L	0.0675 1.27%
QC value within limits for Sn 189.927	Recovery = 106.52%				
Ti 337.279†	162887.9	4.749 mg/L	0.0267	4.749 mg/L	0.0267 0.56%
QC value within limits for Ti 337.279	Recovery = 94.99%				
Tl 351.924†	4820.4	2.886 mg/L	0.0383	2.886 mg/L	0.0383 1.33%
QC value greater than the upper limit for Tl 351.924	Recovery = 115.44%				
V 290.880†	355820.4	5.016 mg/L	0.0074	5.016 mg/L	0.0074 0.15%
QC value within limits for V 290.880	Recovery = 100.33%				
Zn 206.200†	286981.1	5.394 mg/L	0.0222	5.394 mg/L	0.0222 0.41%
QC value within limits for Zn 206.200	Recovery = 107.88%				
Zr 343.823†	760066.4	5.304 mg/L	0.0136	5.304 mg/L	0.0136 0.26%
QC value within limits for Zr 343.823	Recovery = 106.08%				
QC Failed. Continue with analysis.					

Batch ID: AVIO 500

Sequence No.: 71

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 10:21:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	204331.8	89.7 %	1.04	89.7 %	1.04	1.16%
Y axial	2034260.0	102 %	2.14	102 %	2.14	2.10%
Ag 328.068†	117.0	0.0036 mg/L	0.00063	0.0036 mg/L	0.00063	17.71%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	22.7	0.0052 mg/L	0.00445	0.0052 mg/L	0.00445	85.84%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	7.9	0.0050 mg/L	0.00359	0.0050 mg/L	0.00359	71.76%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	20.0	0.0030 mg/L	0.00246	0.0030 mg/L	0.00246	80.57%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	1.5	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020	153.16%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	-177.4	-0.0003 mg/L	0.00004	-0.0003 mg/L	0.00004	13.89%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	16.9	0.0013 mg/L	0.00155	0.0013 mg/L	0.00155	123.64%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	-12.6	-0.0006 mg/L	0.00031	-0.0006 mg/L	0.00031	48.18%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-17.8	-0.0008 mg/L	0.00023	-0.0008 mg/L	0.00023	28.70%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	3.7	0.0001 mg/L	0.00030	0.0001 mg/L	0.00030	385.76%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	48.6	0.0009 mg/L	0.00167	0.0009 mg/L	0.00167	188.13%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	47.9	0.0060 mg/L	0.00123	0.0060 mg/L	0.00123	20.59%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-586.3	-0.1046 mg/L	0.01263	-0.1046 mg/L	0.01263	12.08%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	2.0	0.0002 mg/L	0.00050	0.0002 mg/L	0.00050	328.26%
QC value within limits for Mg 285.213	Recovery = Not calculated					

Mn 257.610†	-25.0	-0.0006 mg/L	0.00015	-0.0006 mg/L	0.00015	24.54%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	32.3	0.0019 mg/L	0.00015	0.0019 mg/L	0.00015	7.75%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-696.1	-0.0681 mg/L	0.01389	-0.0681 mg/L	0.01389	20.40%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-17.9	-0.0005 mg/L	0.00027	-0.0005 mg/L	0.00027	56.39%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	27.5	0.0045 mg/L	0.00196	0.0045 mg/L	0.00196	43.80%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-2.2	-0.0008 mg/L	0.00211	-0.0008 mg/L	0.00211	250.29%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.6	0.0032 mg/L	0.00319	0.0032 mg/L	0.00319	99.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	13.1	0.0020 mg/L	0.00049	0.0020 mg/L	0.00049	24.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-29.6	-0.0009 mg/L	0.00062	-0.0009 mg/L	0.00062	71.41%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-6.4	-0.0037 mg/L	0.01024	-0.0037 mg/L	0.01024	274.94%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	42.7	0.0006 mg/L	0.00042	0.0006 mg/L	0.00042	69.02%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	125.5	0.0024 mg/L	0.00023	0.0024 mg/L	0.00023	9.88%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	103.2	0.0007 mg/L	0.00038	0.0007 mg/L	0.00038	52.45%

All analyte(s) passed QC.

ICP

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SW-14-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Surface Water	Laboratory ID:	24D0729-01
Sampled:	04/01/24 14:00		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium (dissolved)	0.0026	0.0015	0.0040	1	J	B370708	04/18/24 12:40	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0053	0.010	1		B370708	04/18/24 12:40	SW-846 6010E
HARDNESS	Hardness	58		1.4	1		B370708	04/18/24 12:40	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SW-13-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Surface Water	Laboratory ID:	24D0729-02
Sampled:	04/01/24 14:50		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium (dissolved)	0.0019	0.0015	0.0040	1	J	B370708	04/18/24 12:46	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0053	0.010	1		B370708	04/18/24 12:46	SW-846 6010E
HARDNESS	Hardness	57		1.4	1		B370708	04/18/24 12:46	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SW-04-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Surface Water	Laboratory ID:	24D0729-03
Sampled:	04/01/24 16:30		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium (dissolved)	0.0050	0.0015	0.0040	1		B370708	04/18/24 12:34	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0053	0.010	1		B370708	04/18/24 12:34	SW-846 6010E
HARDNESS	Hardness	61		1.4	1		B370708	04/18/24 12:34	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SW-06-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Surface Water	Laboratory ID:	24D0729-04
Sampled:	04/01/24 17:00		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium (dissolved)	0.016	0.0015	0.0040	1		B370708	04/18/24 12:52	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0053	0.010	1		B370708	04/18/24 12:52	SW-846 6010E
HARDNESS	Hardness	64		1.4	1		B370708	04/18/24 12:52	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SW-01-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Surface Water	Laboratory ID:	24D0729-05
Sampled:	04/01/24 17:15		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium (dissolved)	0.018	0.0015	0.0040	1		B370708	04/18/24 12:58	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0053	0.010	1		B370708	04/18/24 12:58	SW-846 6010E
HARDNESS	Hardness	67		1.4	1		B370708	04/18/24 12:58	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SW-11-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Surface Water	Laboratory ID:	24D0729-06
Sampled:	04/01/24 17:50		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium (dissolved)		0.0015	0.0040	1		B370708	04/18/24 13:04	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0053	0.010	1		B370708	04/18/24 13:04	SW-846 6010E
HARDNESS	Hardness	66		1.4	1		B370708	04/18/24 13:04	SW-846 6010E

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-SW-FD-04012024

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Surface Water	Laboratory ID:	24D0729-07
Sampled:	04/01/24 00:00		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium (dissolved)	0.018	0.0015	0.0040	1		B370708	04/18/24 13:10	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0053	0.010	1		B370708	04/18/24 13:10	SW-846 6010E
HARDNESS	Hardness	66		1.4	1		B370708	04/18/24 13:10	SW-846 6010E

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP3	Calibration:	2400450
		Sequence:	S103416

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103416-ICV1	Cadmium (dissolved)	2.00	1.99	99.6	mg/L	+/- 10.00%
	Chromium (dissolved)	2.00	2.03	102	mg/L	+/- 10.00%
S103416-CCV1	Cadmium (dissolved)	5.00	4.98	99.7	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	5.04	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP3	Calibration:	2400450
		Sequence:	S103420

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103420-CCV1	Cadmium (dissolved)	5.00	5.01	100	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	5.03	101	mg/L	+/- 10.00%
S103420-CCV2	Cadmium (dissolved)	5.00	5.07	101	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	5.10	102	mg/L	+/- 10.00%
S103420-CCV3	Cadmium (dissolved)	5.00	5.03	101	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	5.09	102	mg/L	+/- 10.00%
S103420-CCV4	Cadmium (dissolved)	5.00	5.00	99.9	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	5.05	101	mg/L	+/- 10.00%
S103420-CCV5	Cadmium (dissolved)	5.00	5.08	102	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	5.11	102	mg/L	+/- 10.00%

LOW-CONCENTRATION CALIBRATION VERIFICATION**SW-846 6010D****Laboratory:** Pace New England**SDG:** 24D0729**Client:** NYDEC_EA Engineering, Science & Tech. - NY**Project:** DW_Dzus Fastener Co. Inc.**Calibration:** 2400450**Laboratory ID:** S103416-LCV1**Sequence:** S103416**Standard ID:** 23J0971

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Cadmium (dissolved)	0.00400	0.00387	-3.4	20.00
Chromium (dissolved)	0.0100	0.0109	9.2	20.00

* Values outside of QC limits

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0729
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP3 Calibration: 2400450
Sequence: S103416

Lab Sample ID	Analyte	Found	Units	RL	C
S103416-ICB1	Cadmium (dissolved)		mg/L	0.0040	U
	Chromium (dissolved)		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0729
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP3 Calibration: 2400450
 Sequence: S103420

Lab Sample ID	Analyte	Found	Units	RL	C
B370708-BLK1	Cadmium (dissolved)		mg/L	0.0040	U
	Chromium (dissolved)		mg/L	0.010	U
	Hardness	0.0063	mg/L	1.4	
S103420-CCB1	Cadmium (dissolved)		mg/L	0.0040	U
	Chromium (dissolved)		mg/L	0.010	U
S103420-CCB2	Cadmium (dissolved)		mg/L	0.0040	U
	Chromium (dissolved)		mg/L	0.010	U
S103420-CCB3	Cadmium (dissolved)		mg/L	0.0040	U
	Chromium (dissolved)		mg/L	0.010	U
S103420-CCB4	Cadmium (dissolved)		mg/L	0.0040	U
	Chromium (dissolved)		mg/L	0.010	U
S103420-CCB5	Cadmium (dissolved)		mg/L	0.0040	U
	Chromium (dissolved)		mg/L	0.010	U

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. -

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP3

Calibration: 2400450

Sequence: S103420

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103420-IFA1	Cadmium (dissolved)	0.0040		0.00		mg/L
	Chromium (dissolved)	0.010		0.00		mg/L
S103420-IFB1	Cadmium (dissolved)	0.0040	2.00	2.03	102	mg/L
	Chromium (dissolved)	0.010	1.00	0.98	97.8	mg/L
S103420-IFA2	Cadmium (dissolved)	0.0040		0.00		mg/L
	Chromium (dissolved)	0.010		0.00		mg/L
S103420-IFB2	Cadmium (dissolved)	0.0040	2.00	2.05	103	mg/L
	Chromium (dissolved)	0.010	1.00	0.99	99.2	mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

152033-SM-SW-04-04012024

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Analysis:	SW-846 6010D
Batch:	B370708	Preparation:	SW-846 3005A Dissolved
% Solids:		Laboratory ID:	B370708-MS1
Column:		Sample Lab ID:	24D0729-03

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Cadmium (dissolved)	2.04	0.00497	2.11	103	75 - 125
Chromium (dissolved)	2.04	ND	2.07	101	75 - 125
Hardness	108	61	170	101	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Cadmium (dissolved)	2.04	2.08	102	1.24	20	75 - 125
Chromium (dissolved)	2.04	2.04	100	1.24	20	75 - 125
Hardness	108	160	96.4	3.24	20	75 - 125

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 3005A Dissolved
Batch:	B370708	Laboratory ID:	B370708-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Cadmium (dissolved)	2.00	1.99	99.6	80 - 120
Chromium (dissolved)	2.00	2.03	102	80 - 120
Hardness	13.2	14	106	80 - 120

SERIAL DILUTION

SW-846 6010D

Laboratory: Pace New England

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Sequence: B370708

Work Order: 24D0729

Project: DW_Dzus Fastener Co. Inc.

Laboratory ID: B370708-SRL1

Source: 152033-SM-SW-04-04012024

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Hardness	60.6	59.3	2.10		20.00
Chromium	ND	ND	N/A		20.00
Cadmium	ND	ND	N/A		20.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Pace New England

Work Order: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Instrument: ICP3

Analyte	MDL	MRL	Units	Method
Cadmium (dissolved)	0.0015	0.0040	mg/L	SW-846 6010D
Chromium (dissolved)	0.0053	0.010	mg/L	SW-846 6010D
Hardness		1.4	mg/L	SW-846 6010D

PREPARATION BATCH SUMMARY

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0729
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Batch: B370708 Batch Matrix: Water Preparation: SW-846 3005A Dissolved

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-SW-14-04012024	24D0729-01	04/05/24 18:19	5.00	5.00
152033-SM-SW-14-04012024	24D0729-01	04/05/24 18:19	5.00	5.00
152033-SM-SW-13-04012024	24D0729-02	04/05/24 18:19	5.00	5.00
152033-SM-SW-13-04012024	24D0729-02	04/05/24 18:19	5.00	5.00
152033-SM-SW-04-04012024	24D0729-03	04/05/24 18:19	5.00	5.00
152033-SM-SW-04-04012024	24D0729-03	04/05/24 18:19	5.00	5.00
152033-SM-SW-06-04012024	24D0729-04	04/05/24 18:19	5.00	5.00
152033-SM-SW-06-04012024	24D0729-04	04/05/24 18:19	5.00	5.00
152033-SM-SW-01-04012024	24D0729-05	04/05/24 18:19	5.00	5.00
152033-SM-SW-01-04012024	24D0729-05	04/05/24 18:19	5.00	5.00
152033-SM-SW-01-04012024	24D0729-05	04/05/24 18:19	5.00	5.00
152033-SM-SW-11-04012024	24D0729-06	04/05/24 18:19	5.00	5.00
152033-SM-SW-11-04012024	24D0729-06	04/05/24 18:19	5.00	5.00
152033-SM-SW-FD-04012024	24D0729-07	04/05/24 18:19	5.00	5.00
152033-SM-SW-FD-04012024	24D0729-07	04/05/24 18:19	5.00	5.00
Blank	B370708-BLK1	04/05/24 18:19	5.00	5.00
Blank	B370708-BLK1	04/05/24 18:19	5.00	5.00
LCS	B370708-BS1	04/05/24 18:19	5.00	5.00
LCS	B370708-BS1	04/05/24 18:19	5.00	5.00
152033-SM-SW-04-04012024	B370708-MS1	04/05/24 18:19	4.90	5.00
152033-SM-SW-04-04012024	B370708-MS1	04/05/24 18:19	4.90	5.00
152033-SM-SW-04-04012024	B370708-MSD1	04/05/24 18:19	4.90	5.00
152033-SM-SW-04-04012024	B370708-MSD1	04/05/24 18:19	4.90	5.00
152033-SM-SW-04-04012024	B370708-SRL1	04/05/24 18:19	5.00	5.00
152033-SM-SW-04-04012024	B370708-SRL1	04/05/24 18:19	5.00	5.00

PREPARATION BENCH SHEET B370708

181

Prepared: 04/05/24 18:19

Printed: 4/22/2024 11:08:34AM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due	TAT	Spike Amount uL 1 2	Comments	Priority
B370708-BLK1	Blank		5	5					
B370708-BS1	LCS		5	5			5000		
B370708-MS1	Matrix Spike [24D0729-03]		4.9	5			100		
B370708-MSD1	Matrix Spike Dup [24D0729-03]		4.9	5			100		
B370708-SRL1	Dilution Check [24D0729-03]		5	5					
24D0729-01	152033-SM-SW-14-0401A 2024		5	5	04/19/24	10		Field Filtered CAT B - Report to MDL pH<2 LD 4/11/24 NTU<1 VERIFIED	
24D0729-02	152033-SM-SW-13-0401B 2024		5	5	04/19/24	10		Field Filtered CAT B - Report to MDL pH<2 LD 4/11/24 NTU<1 VERIFIED	
24D0729-03	152033-SM-SW-04-0401D 2024		5	5	04/19/24	10		Field Filtered CAT B - Report to MDL pH<2 LD 4/11/24 NTU<1 VERIFIED	
24D0729-04	152033-SM-SW-06-0401B 2024		5	5	04/19/24	10		Field Filtered CAT B - Report to MDL pH<2 LD 4/11/24 NTU<1 VERIFIED	
24D0729-05	152033-SM-SW-01-0401B 2024		5	5	04/19/24	10		Field Filtered CAT B - Report to MDL pH<2 LD 4/11/24 NTU<1 VERIFIED	
24D0729-06	152033-SM-SW-11-0401B 2024		5	5	04/19/24	10		Field Filtered CAT B - Report to MDL pH<2 LD 4/11/24 NTU<1 VERIFIED	
24D0729-07	152033-SM-SW-FD-040 B 12024		5	5	04/19/24	10		Field Filtered CAT B - Report to MDL pH<2 LD 4/11/24 NTU<1 VERIFIED	

Cd	Cr	Hardn

Standard(s):		
2305069	QC Standard CUSTOM BLEND	100 uL
23J1107	ICP - ICV	5000 uL

Standard ID#	Description
23K0350	Turbidity - 1.0 NTU Standard

EPPENDORF # I03120F

pH <2 VERIFIED @ 1605 LD 4/11/24

6010 DISS

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET
B370708

182

Prepared: 04/05/24 18:19

Printed: 4/22/2024 11:08:34AM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0729-01	Chromium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-02	Cadmium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-02	Chromium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-03	Cadmium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-03	Chromium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-05	Cadmium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-05	Chromium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-06	Cadmium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-06	Chromium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-07	Cadmium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-07	Chromium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-04	Cadmium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-01	Cadmium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-04	Chromium 6010 Dissolved	Field Filtered	CAT B	-	Report to MDL							
24D0729-01	Hardness by Calculation 6010D	CAT B	-	Report to MDL								
24D0729-02	Hardness by Calculation 6010D	CAT B	-	Report to MDL								
24D0729-03	Hardness by Calculation 6010D	CAT B	-	Report to MDL								
24D0729-04	Hardness by Calculation 6010D	CAT B	-	Report to MDL								
24D0729-05	Hardness by Calculation 6010D	CAT B	-	Report to MDL								
24D0729-06	Hardness by Calculation 6010D	CAT B	-	Report to MDL								
24D0729-07	Hardness by Calculation 6010D	CAT B	-	Report to MDL								

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

S103416

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103416-CAL1	QC		1		23J0970	24D0241	
S103416-CAL2	QC		2		23J0971	24D0241	
S103416-CAL3	QC		3		24D0039	24D0241	
S103416-CAL4	QC		4		24D0038	24D0241	
S103416-CAL5	QC		5		24D0037	24D0241	
S103416-CAL6	QC		6		24D0029	24D0241	
S103416-CAL7	QC		7		24D0035	24D0241	
S103416-CAL8	QC		8		23J0977	24D0241	
S103416-ICV1	QC		9		23K0257	24D0241	
S103416-ICB1	QC		10		23J0970	24D0241	
S103416-LCV1	QC		11		23J0971	24D0241	
S103416-CCV1	QC		12		24D0029	24D0241	
S103416-IFA1	QC		13		24C0959	24D0241	
S103416-IFB1	QC		14		24D0240	24D0241	
S103416-LCV2	QC		15		23L0532	24D0241	
S103416-HCV1	QC		16		24D0030	24D0241	
S103416-HCV2	QC		17		24C0960	24D0241	

Samples Loaded By

Date

Data Processed By

Date

=====

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	91173.4
-1.6	15.0	145344.0
-1.2	15.0	193960.2
-0.8	15.0	227863.1
-0.4	15.0	271033.9
0.0	15.0	285579.6
0.4	15.0	255710.4
0.8	15.0	228246.3
1.2	15.0	194297.4
1.6	15.0	150770.0
0.0	10.0	542.9
0.0	10.5	2655.1
0.0	11.0	7241.9
0.0	11.5	18098.1
0.0	12.0	32514.8
0.0	12.5	83856.8
0.0	13.0	114995.3
0.0	13.5	157029.7
0.0	14.0	204062.6
0.0	14.5	269695.6
0.0	15.0	280617.7
0.0	15.5	267788.6
0.0	16.0	242706.0
0.0	16.5	148133.7
0.0	17.0	113956.6
0.0	17.5	78785.4
0.0	18.0	52464.5
0.0	18.5	18400.1
0.0	19.0	9500.8
0.0	19.5	2858.8
-0.8	15.0	238297.9
-0.4	15.0	273289.9
0.0	15.0	275586.3
0.4	15.0	274318.1
0.0	13.0	113151.7
0.0	13.5	147894.6
0.0	14.0	196530.0
0.0	14.5	261085.0
0.0	15.0	280638.6
0.0	15.5	270999.7
0.0	16.0	245376.9
0.0	16.5	154769.4

4/18/2024 8:44:14 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 280638.6 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 280638.6 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	4593.8
-6.5	15.0	5193.8
-6.0	15.0	5393.8
-5.5	15.0	5946.1
-5.0	15.0	7207.7
-4.5	15.0	9552.8
-4.0	15.0	13392.3
-3.5	15.0	18542.4
-3.0	15.0	27388.7
-2.5	15.0	37625.8
-2.0	15.0	57710.7
-1.5	15.0	123862.6
-1.0	15.0	183754.8
-0.5	15.0	209645.4
0.0	15.0	227267.5
0.5	15.0	211767.2
1.0	15.0	165025.6

1.5	15.0	98889.2
2.0	15.0	40579.7
2.5	15.0	36199.7
3.0	15.0	27748.1
3.5	15.0	16868.1
4.0	15.0	9366.3
4.5	15.0	4404.5
5.0	15.0	2572.8
5.5	15.0	2162.8
6.0	15.0	1641.0
6.5	15.0	1047.7

4/18/2024 8:48:07 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 227267.5 for Radial viewing

Analysis Begun

Start Time: 4/18/2024 9:05:52 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 1

Sample ID: Cal Blank@ 23J0970

Date Collected: 4/18/2024 9:05:53 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153405.6	4208.46	2.74%	100	%
Y axial	2037256.4	7867.45	0.39%	100	%
Ag 328.068†	60.1	35.31	58.71%	[0.00]	mg/L
Al 396.153†	3.6	66.29	>999.9%	[0.00]	mg/L
As 188.979†	-50.1	2.69	5.36%	[0.00]	mg/L
B 208.889†	165.4	6.21	3.76%	[0.00]	mg/L
Ba 233.527†	-20.2	4.75	23.46%	[0.00]	mg/L
Be 313.107†	73.3	0.32	0.44%	[0.00]	mg/L
Ca 317.933†	873.2	23.86	2.73%	[0.00]	mg/L
Cd 228.802†	160.8	2.92	1.81%	[0.00]	mg/L
Co 228.616†	92.2	3.87	4.19%	[0.00]	mg/L
Cr 267.716†	48.6	7.60	15.64%	[0.00]	mg/L
Cu 327.393†	1054.4	44.54	4.22%	[0.00]	mg/L
Fe 238.204†	-77.2	3.09	4.01%	[0.00]	mg/L
K 766.490†	1023.3	22.21	2.17%	[0.00]	mg/L
Mg 285.213†	236.0	8.37	3.55%	[0.00]	mg/L
Mn 257.610†	-330.6	10.39	3.14%	[0.00]	mg/L
Mo 202.031†	130.1	2.23	1.72%	[0.00]	mg/L
Na 589.592†	289.9	60.14	20.75%	[0.00]	mg/L
Ni 231.604†	434.6	6.97	1.60%	[0.00]	mg/L
Pb 220.353†	-2.7	1.68	61.73%	[0.00]	mg/L
Sb 206.836†	74.3	5.93	7.97%	[0.00]	mg/L
Se 196.026†	5.6	1.60	28.48%	[0.00]	mg/L
Sn 189.927†	-61.9	3.45	5.58%	[0.00]	mg/L
Ti 337.279†	-202.9	45.86	22.61%	[0.00]	mg/L
Tl 351.924†	-29.5	78.87	267.28%	[0.00]	mg/L
V 290.880†	948.6	6.73	0.71%	[0.00]	mg/L
Zn 206.200†	-197.7	0.86	0.44%	[0.00]	mg/L
Zr 343.823†	108.8	58.94	54.15%	[0.00]	mg/L

User canceled analysis.

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Analysis Begun

Start Time: 4/18/2024 9:11:50 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====
Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 1

Sample ID: Cal Blank@ 23J0970

Date Collected: 4/18/2024 9:12:00 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Y radial	155289.1	3058.58	1.97%	101	%
Y axial	2047562.9	23327.66	1.14%	101	%
Ag 328.068†	79.4	19.08	24.05%	[0.00]	mg/L
Al 396.153†	38.8	13.59	35.00%	[0.00]	mg/L
As 188.979†	-54.5	3.27	6.00%	[0.00]	mg/L
B 208.889†	162.1	2.68	1.65%	[0.00]	mg/L
Ba 233.527†	-24.9	5.47	21.99%	[0.00]	mg/L
Be 313.107†	87.9	13.61	15.48%	[0.00]	mg/L
Ca 317.933†	852.4	30.42	3.57%	[0.00]	mg/L
Cd 228.802†	162.0	2.04	1.26%	[0.00]	mg/L
Co 228.616†	105.2	11.34	10.79%	[0.00]	mg/L
Cr 267.716†	45.5	4.87	10.70%	[0.00]	mg/L
Cu 327.393†	1126.1	78.15	6.94%	[0.00]	mg/L
Fe 238.204†	-77.6	2.55	3.29%	[0.00]	mg/L
K 766.490†	958.1	99.64	10.40%	[0.00]	mg/L
Mg 285.213†	233.4	12.16	5.21%	[0.00]	mg/L
Mn 257.610†	-333.2	9.32	2.80%	[0.00]	mg/L
Mo 202.031†	129.0	4.13	3.20%	[0.00]	mg/L
Na 589.592†	349.4	22.61	6.47%	[0.00]	mg/L
Ni 231.604†	436.3	12.64	2.90%	[0.00]	mg/L
Pb 220.353†	-9.2	4.55	49.35%	[0.00]	mg/L
Sb 206.836†	77.5	6.61	8.52%	[0.00]	mg/L
Se 196.026†	5.3	2.21	41.92%	[0.00]	mg/L
Sn 189.927†	-61.0	7.66	12.57%	[0.00]	mg/L
Ti 337.279†	-235.9	12.93	5.48%	[0.00]	mg/L
Tl 351.924†	-16.3	40.81	249.89%	[0.00]	mg/L
V 290.880†	940.0	12.05	1.28%	[0.00]	mg/L
Zn 206.200†	-199.2	0.42	0.21%	[0.00]	mg/L
Zr 343.823†	75.3	70.58	93.77%	[0.00]	mg/L

=====
Batch ID: OPTIMA 3

Sequence No.: 2

Autosampler Location: 2

Sample ID: SEQ-CAL1@ 23J0971

Date Collected: 4/18/2024 9:17:56 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 110

Mean Data: SEQ-CAL1@ 23J0971

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units

Y radial	154591.4	1504.22	0.97%	101	%
Y axial	2043138.1	9756.94	0.48%	100	%
Ag 328.068†	536.9	29.93	5.57%	[0.01]	mg/L
Al 396.153†	161.8	41.27	25.50%	[0.05]	mg/L
As 188.979†	12.5	5.01	40.26%	[0.01]	mg/L
B 208.889†	658.2	6.21	0.94%	[0.1]	mg/L
Ba 233.527†	179.8	0.68	0.38%	[0.05]	mg/L
Be 313.107†	1109.1	22.35	2.02%	[0.004]	mg/L
Ca 317.933†	2935.9	35.86	1.22%	[0.5]	mg/L
Cd 228.802†	114.7	0.70	0.61%	[0.004]	mg/L
Co 228.616†	288.4	4.63	1.61%	[0.01]	mg/L
Cr 267.716†	488.3	2.47	0.51%	[0.01]	mg/L
Cu 327.393†	1073.9	50.50	4.70%	[0.01]	mg/L
Fe 238.204†	177.9	1.32	0.74%	[0.05]	mg/L
Mg 285.213†	557.2	14.66	2.63%	[0.05]	mg/L
Mn 257.610†	233.6	6.39	2.74%	[0.01]	mg/L
Mo 202.031†	732.6	7.53	1.03%	[0.05]	mg/L
Ni 231.604†	249.2	8.92	3.58%	[0.01]	mg/L
Pb 220.353†	39.9	12.28	30.77%	[0.01]	mg/L
Sb 206.836†	73.1	3.46	4.73%	[0.05]	mg/L
Se 196.026†	71.9	2.78	3.86%	[0.05]	mg/L
Sn 189.927†	431.8	2.19	0.51%	[0.1]	mg/L
Ti 337.279†	373.8	9.74	2.61%	[0.02]	mg/L
Tl 351.924†	162.8	3.66	2.25%	[0.05]	mg/L
V 290.880†	533.8	22.21	4.16%	[0.01]	mg/L
Zn 206.200†	202.3	5.77	2.85%	[0.01]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 3

Sample ID: SEQ-CAL2@ 23J0972

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 3

Date Collected: 4/18/2024 9:25:42 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL2@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153050.4	418.28	0.27%	99.8	%
Y axial	2023051.1	11340.35	0.56%	99.3	%
Ag 328.068†	3980.9	30.37	0.76%	[0.0625]	mg/L
Al 396.153†	948.0	16.99	1.79%	[0.25]	mg/L
As 188.979†	147.0	2.96	2.01%	[0.125]	mg/L
B 208.889†	846.7	5.22	0.62%	[0.125]	mg/L
Ba 233.527†	434.2	1.28	0.29%	[0.125]	mg/L
Be 313.107†	34294.3	218.18	0.64%	[0.125]	mg/L
Cd 228.802†	3659.6	13.63	0.37%	[0.125]	mg/L
Co 228.616†	3607.8	30.04	0.83%	[0.125]	mg/L
Cr 267.716†	6034.5	67.77	1.12%	[0.125]	mg/L
Cu 327.393†	12205.2	162.23	1.33%	[0.125]	mg/L
Fe 238.204†	433.9	5.16	1.19%	[0.125]	mg/L
Mg 285.213†	2759.8	17.27	0.63%	[0.25]	mg/L
Mn 257.610†	2919.3	26.89	0.92%	[0.125]	mg/L
Mo 202.031†	1851.3	10.59	0.57%	[0.125]	mg/L
Ni 231.604†	3065.9	21.64	0.71%	[0.125]	mg/L
Pb 220.353†	467.9	5.48	1.17%	[0.125]	mg/L
Sb 206.836†	240.7	2.17	0.90%	[0.125]	mg/L
Se 196.026†	196.9	1.99	1.01%	[0.125]	mg/L
Sn 189.927†	556.1	1.89	0.34%	[0.125]	mg/L
Ti 337.279†	2339.1	16.44	0.70%	[0.125]	mg/L
Tl 351.924†	177.4	18.67	10.52%	[0.0625]	mg/L
V 290.880†	7863.8	85.42	1.09%	[0.125]	mg/L
Zn 206.200†	2415.9	12.11	0.50%	[0.125]	mg/L
Zr 343.823†	21449.0	203.73	0.95%	[0.125]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 4

Autosampler Location: 4

Sample ID: SEQ-CAL3@ 23J0973

Date Collected: 4/18/2024 9:33:29 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: SEQ-CAL3@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153743.8	4976.69	3.24%	100	%
Y axial	2020453.5	18704.41	0.93%	99.2	%
Ag 328.068†	16266.7	508.78	3.13%	[0.25]	mg/L
Al 396.153†	3876.1	142.77	3.68%	[1]	mg/L
As 188.979†	574.1	6.59	1.15%	[0.5]	mg/L
B 208.889†	3443.0	26.43	0.77%	[0.5]	mg/L
Ba 233.527†	1722.8	25.24	1.46%	[0.5]	mg/L
Be 313.107†	137792.9	603.92	0.44%	[0.5]	mg/L
Cd 228.802†	14728.7	130.60	0.89%	[0.5]	mg/L
Co 228.616†	14539.5	434.08	2.99%	[0.5]	mg/L
Cr 267.716†	24219.1	757.50	3.13%	[0.5]	mg/L
Cu 327.393†	50499.3	1252.97	2.48%	[0.5]	mg/L
Fe 238.204†	1733.6	52.12	3.01%	[0.5]	mg/L
Mg 285.213†	10969.8	371.04	3.38%	[1]	mg/L
Mn 257.610†	11658.9	358.02	3.07%	[0.5]	mg/L
Mo 202.031†	7399.6	70.69	0.96%	[0.5]	mg/L
Ni 231.604†	12373.6	327.19	2.64%	[0.5]	mg/L
Pb 220.353†	1857.7	18.59	1.00%	[0.5]	mg/L
Sb 206.836†	957.0	3.62	0.38%	[0.5]	mg/L
Se 196.026†	807.6	11.57	1.43%	[0.5]	mg/L
Sn 189.927†	2228.1	9.71	0.44%	[0.5]	mg/L
Ti 337.279†	9377.3	309.35	3.30%	[0.5]	mg/L
Tl 351.924†	824.4	20.72	2.51%	[0.25]	mg/L
V 290.880†	31591.8	943.19	2.99%	[0.5]	mg/L
Zn 206.200†	9819.8	64.04	0.65%	[0.5]	mg/L
Zr 343.823†	86958.9	2017.53	2.32%	[0.5]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 5

Autosampler Location: 5

Sample ID: SEQ-CAL4@ 23J0974

Date Collected: 4/18/2024 9:41:18 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: SEQ-CAL4@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	152392.5	742.43	0.49%	99.3	%
Y axial	2022628.4	21151.05	1.05%	99.3	%
Ag 328.068†	31244.3	427.75	1.37%	[0.5]	mg/L
Al 396.153†	7787.9	65.69	0.84%	[2]	mg/L
As 188.979†	1117.5	12.97	1.16%	[1]	mg/L
B 208.889†	6649.0	88.17	1.33%	[1]	mg/L
Ba 233.527†	3440.3	34.17	0.99%	[1]	mg/L
Be 313.107†	277134.8	651.73	0.24%	[1]	mg/L
Ca 317.933†	11871.0	64.02	0.54%	[2]	mg/L
Cd 228.802†	28704.4	642.32	2.24%	[1]	mg/L
Co 228.616†	28407.9	638.20	2.25%	[1]	mg/L
Cr 267.716†	47391.5	1048.90	2.21%	[1]	mg/L
Cu 327.393†	99878.1	2272.20	2.27%	[1]	mg/L
Fe 238.204†	3490.5	24.80	0.71%	[1]	mg/L
K 766.490†	4172.8	64.10	1.54%	[2]	mg/L
Mg 285.213†	22026.3	130.80	0.59%	[2]	mg/L
Mn 257.610†	23549.8	129.34	0.55%	[1]	mg/L
Mo 202.031†	14005.1	358.98	2.56%	[1]	mg/L
Na 589.592†	19237.4	116.11	0.60%	[2]	mg/L
Ni 231.604†	24254.0	585.65	2.41%	[1]	mg/L

Pb 220.353†	3649.0	28.33	0.78%	[1]	mg/L
Sb 206.836†	1847.0	20.47	1.11%	[1]	mg/L
Se 196.026†	1586.9	16.34	1.03%	[1]	mg/L
Sn 189.927†	4253.7	48.44	1.14%	[1]	mg/L
Ti 337.279†	18325.7	116.23	0.63%	[1]	mg/L
Tl 351.924†	1674.9	21.61	1.29%	[0.5]	mg/L
V 290.880†	62124.8	1345.00	2.16%	[1]	mg/L
Zn 206.200†	19079.3	497.90	2.61%	[1]	mg/L
Zr 343.823†	166442.6	3640.25	2.19%	[1]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 6

Sample ID: SEQ-CAL5@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 6

Date Collected: 4/18/2024 9:49:05 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL5@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	150293.3	2622.94	1.75%	98.0	%
Y axial	1961854.7	3864.62	0.20%	96.3	%
Ag 328.068†	136686.1	2120.07	1.55%	[2.5]	mg/L
Al 396.153†	37706.9	48.68	0.13%	[10]	mg/L
As 188.979†	5608.4	55.72	0.99%	[5]	mg/L
B 208.889†	34189.4	342.74	1.00%	[5]	mg/L
Ba 233.527†	16900.7	316.69	1.87%	[5]	mg/L
Be 313.107†	1354902.1	29776.62	2.20%	[5]	mg/L
Ca 317.933†	56787.1	120.12	0.21%	[10]	mg/L
Cd 228.802†	143605.4	434.97	0.30%	[5]	mg/L
Co 228.616†	140651.7	428.60	0.30%	[5]	mg/L
Cr 267.716†	236066.9	565.30	0.24%	[5]	mg/L
Cu 327.393†	503763.3	471.34	0.09%	[5]	mg/L
Fe 238.204†	16684.6	7.15	0.04%	[5]	mg/L
K 766.490†	19961.3	25.50	0.13%	[10]	mg/L
Mg 285.213†	106123.1	33.86	0.03%	[10]	mg/L
Mn 257.610†	113518.1	146.42	0.13%	[5]	mg/L
Mo 202.031†	71769.6	139.63	0.19%	[5]	mg/L
Na 589.592†	93066.2	224.44	0.24%	[10]	mg/L
Ni 231.604†	119680.6	21.04	0.02%	[5]	mg/L
Pb 220.353†	17880.7	161.61	0.90%	[5]	mg/L
Sb 206.836†	9453.3	103.47	1.09%	[5]	mg/L
Se 196.026†	7915.8	82.61	1.04%	[5]	mg/L
Sn 189.927†	21615.8	215.47	1.00%	[5]	mg/L
Ti 337.279†	91562.0	234.36	0.26%	[5]	mg/L
Tl 351.924†	8517.0	67.17	0.79%	[2.5]	mg/L
V 290.880†	311966.4	335.66	0.11%	[5]	mg/L
Zn 206.200†	95169.8	146.60	0.15%	[5]	mg/L
Zr 343.823†	860087.7	1816.92	0.21%	[5]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 7

Sample ID: SEQ-CAL6@ 23J0976

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 7

Date Collected: 4/18/2024 9:55:52 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL6@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151779.8	888.78	0.59%	98.9	%
Y axial	1947801.7	5121.37	0.26%	95.6	%
Ag 328.068†	243024.2	3619.79	1.49%	[5]	mg/L
Al 396.153†	76291.9	681.81	0.89%	[20]	mg/L

As 188.979†	11522.9	230.49	2.00%	[10]	mg/L
B 208.889†	69288.7	1239.16	1.79%	[10]	mg/L
Ba 233.527†	34642.5	275.37	0.79%	[10]	mg/L
Be 313.107†	2724246.1	26622.91	0.98%	[10]	mg/L
Ca 317.933†	114860.7	943.37	0.82%	[20]	mg/L
Cd 228.802†	285723.3	951.13	0.33%	[10]	mg/L
Co 228.616†	278812.8	756.02	0.27%	[10]	mg/L
Cr 267.716†	470935.5	1391.57	0.30%	[10]	mg/L
Cu 327.393†	1017294.4	3996.45	0.39%	[10]	mg/L
Fe 238.204†	33491.7	358.35	1.07%	[10]	mg/L
K 766.490†	40338.6	355.01	0.88%	[20]	mg/L
Mg 285.213†	213584.9	1848.01	0.87%	[20]	mg/L
Mn 257.610†	228305.5	1893.03	0.83%	[10]	mg/L
Mo 202.031†	143538.3	395.61	0.28%	[10]	mg/L
Na 589.592†	190891.2	1928.55	1.01%	[20]	mg/L
Ni 231.604†	237318.1	1078.29	0.45%	[10]	mg/L
Pb 220.353†	36151.7	700.37	1.94%	[10]	mg/L
Sb 206.836†	19351.1	390.37	2.02%	[10]	mg/L
Se 196.026†	16150.5	386.19	2.39%	[10]	mg/L
Sn 189.927†	43687.9	754.40	1.73%	[10]	mg/L
Ti 337.279†	184641.9	1599.12	0.87%	[10]	mg/L
Tl 351.924†	16934.2	277.75	1.64%	[5]	mg/L
V 290.880†	626187.4	1850.00	0.30%	[10]	mg/L
Zn 206.200†	188923.6	568.59	0.30%	[10]	mg/L
Zr 343.823†	1726082.3	3960.80	0.23%	[10]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 8

Sample ID: SEQ-CAL7@ 23J0977

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 8

Date Collected: 4/18/2024 10:01:45 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL7@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151379.8	377.34	0.25%	98.7	%
Y axial	1954907.5	26692.23	1.37%	96.0	%
Al 396.153†	185025.4	166.13	0.09%	[50]	mg/L
Ca 317.933†	287794.1	683.73	0.24%	[50]	mg/L
Fe 238.204†	85002.2	242.93	0.29%	[25]	mg/L
K 766.490†	99714.6	230.17	0.23%	[50]	mg/L
Mg 285.213†	525740.8	793.43	0.15%	[50]	mg/L
Na 589.592†	466471.0	2164.08	0.46%	[50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	49950	0.00000	0.998486	
Al 396.153	7	Lin Thru 0	0.0	3718	0.00000	0.999941	
As 188.979	6	Lin Thru 0	0.0	1146	0.00000	0.999941	
B 208.889	6	Lin Thru 0	0.0	6909	0.00000	0.999981	
Ba 233.527	6	Lin Thru 0	0.0	3447	0.00000	0.999953	
Be 313.107	6	Lin Thru 0	0.0	272200	0.00000	0.999996	
Ca 317.933	5	Lin Thru 0	0.0	5752	0.00000	0.999996	
Cd 228.802	6	Lin Thru 0	0.0	28600	0.00000	0.999997	
Co 228.616	6	Lin Thru 0	0.0	27940	0.00000	0.999991	
Cr 267.716	6	Lin Thru 0	0.0	47120	0.00000	0.999999	
Cu 327.393	6	Lin Thru 0	0.0	101500	0.00000	0.999992	
Fe 238.204	7	Lin Thru 0	0.0	3391	0.00000	0.999982	
K 766.490	4	Lin Thru 0	0.0	1997	0.00000	0.999991	
Mg 285.213	7	Lin Thru 0	0.0	10540	0.00000	0.999984	
Mn 257.610	6	Lin Thru 0	0.0	22810	0.00000	0.999993	
Mo 202.031	6	Lin Thru 0	0.0	14350	0.00000	0.999997	
Na 589.592	4	Lin Thru 0	0.0	9358	0.00000	0.999969	
Ni 231.604	6	Lin Thru 0	0.0	23780	0.00000	0.999991	

Pb 220.353	6	Lin Thru 0	0.0	3608	0.00000	0.999989
Sb 206.836	6	Lin Thru 0	0.0	1926	0.00000	0.999951
Se 196.026	6	Lin Thru 0	0.0	1609	0.00000	0.999968
Sn 189.927	6	Lin Thru 0	0.0	4359	0.00000	0.999988
Ti 337.279	6	Lin Thru 0	0.0	18430	0.00000	0.999994
Tl 351.924	6	Lin Thru 0	0.0	3390	0.00000	0.999994
V 290.880	6	Lin Thru 0	0.0	62570	0.00000	0.999999
Zn 206.200	6	Lin Thru 0	0.0	18920	0.00000	0.999994
Zr 343.823	5	Lin Thru 0	0.0	172400	0.00000	0.999994

Calibration data for Ag 328.068

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	19.08	24.05	N/A
SEQ-CAL1@ 23J0971	536.9	0.01	0.0107	29.93	5.57	7.49%
SEQ-CAL2@ 23J0972	3980.9	0.0625	0.0797	30.37	0.76	27.51%
SEQ-CAL3@ 23J0973	16266.7	0.25	0.3257	508.78	3.13	30.26%
SEQ-CAL4@ 23J0974	31244.3	0.5	0.6255	427.75	1.37	25.10%
SEQ-CAL5@ 23J0975	136686.1	2.5	2.736	2120.07	1.55	9.46%
SEQ-CAL6@ 23J0976	243024.2	5.0	4.865	3619.79	1.49	-2.70%
Correlation Coef.: 0.998486 Slope: 49950 Intercept: 0.0						

Calibration data for Al 396.153

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	13.59	35.00	N/A
SEQ-CAL1@ 23J0971	161.8	0.05	0.0435	41.27	25.50	-12.97%
SEQ-CAL2@ 23J0972	948.0	0.25	0.2549	16.99	1.79	1.98%
SEQ-CAL3@ 23J0973	3876.1	1.0	1.042	142.77	3.68	4.24%
SEQ-CAL4@ 23J0974	7787.9	2.0	2.094	65.69	0.84	4.72%
SEQ-CAL5@ 23J0975	37706.9	10.0	10.14	48.68	0.13	1.41%
SEQ-CAL6@ 23J0976	76291.9	20.0	20.52	681.81	0.89	2.59%
SEQ-CAL7@ 23J0977	185025.4	50.0	49.76	166.13	0.09	-0.48%
Correlation Coef.: 0.999941 Slope: 3718 Intercept: 0.0						

Calibration data for As 188.979

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	3.27	6.00	N/A
SEQ-CAL1@ 23J0971	12.5	0.01	0.0109	5.01	40.26	8.68%
SEQ-CAL2@ 23J0972	147.0	0.125	0.1283	2.96	2.01	2.62%
SEQ-CAL3@ 23J0973	574.1	0.5	0.5010	6.59	1.15	0.20%
SEQ-CAL4@ 23J0974	1117.5	1.0	0.9752	12.97	1.16	-2.48%
SEQ-CAL5@ 23J0975	5608.4	5.0	4.894	55.72	0.99	-2.12%
SEQ-CAL6@ 23J0976	11522.9	10.0	10.06	230.49	2.00	0.55%
Correlation Coef.: 0.999941 Slope: 1146 Intercept: 0.0						

Calibration data for B 208.889

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.68	1.65	N/A
SEQ-CAL1@ 23J0971	658.2	0.1	0.0953	6.21	0.94	-4.73%
SEQ-CAL2@ 23J0972	846.7	0.125	0.1226	5.22	0.62	-1.95%
SEQ-CAL3@ 23J0973	3443.0	0.5	0.4984	26.43	0.77	-0.32%
SEQ-CAL4@ 23J0974	6649.0	1.0	0.9624	88.17	1.33	-3.76%
SEQ-CAL5@ 23J0975	34189.4	5.0	4.949	342.74	1.00	-1.02%
SEQ-CAL6@ 23J0976	69288.7	10.0	10.03	1239.16	1.79	0.29%
Correlation Coef.: 0.999981 Slope: 6909 Intercept: 0.0						

Calibration data for Ba 233.527

Equation: Linear Through Zero

Entered Calculated

ID	Mean Signal (Em)	Conc. mg/L	Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	5.47	21.99	N/A
SEQ-CAL1@ 23J0971	179.8	0.05	0.0522	0.68	0.38	4.31%
SEQ-CAL2@ 23J0972	434.2	0.125	0.1259	1.28	0.29	0.76%
SEQ-CAL3@ 23J0973	1722.8	0.5	0.4998	25.24	1.46	-0.05%
SEQ-CAL4@ 23J0974	3440.3	1.0	0.9979	34.17	0.99	-0.21%
SEQ-CAL5@ 23J0975	16900.7	5.0	4.902	316.69	1.87	-1.95%
SEQ-CAL6@ 23J0976	34642.5	10.0	10.05	275.37	0.79	0.49%
Correlation Coef.: 0.999953 Slope: 3447 Intercept: 0.0						

Calibration data for Be 313.107

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	13.61	15.48	N/A
SEQ-CAL1@ 23J0971	1109.1	0.004	0.0041	22.35	2.02	1.87%
SEQ-CAL2@ 23J0972	34294.3	0.125	0.1260	218.18	0.64	0.80%
SEQ-CAL3@ 23J0973	137792.9	0.5	0.5063	603.92	0.44	1.25%
SEQ-CAL4@ 23J0974	277134.8	1.0	1.018	651.73	0.24	1.82%
SEQ-CAL5@ 23J0975	1354902.1	5.0	4.978	29776.62	2.20	-0.44%
SEQ-CAL6@ 23J0976	2724246.1	10.0	10.01	26622.91	0.98	0.09%
Correlation Coef.: 0.999996 Slope: 272200 Intercept: 0.0						

Calibration data for Ca 317.933

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	30.42	3.57	N/A
SEQ-CAL1@ 23J0971	2935.9	0.5	0.5104	35.86	1.22	2.09%
SEQ-CAL4@ 23J0974	11871.0	2.0	2.064	64.02	0.54	3.19%
SEQ-CAL5@ 23J0975	56787.1	10.0	9.873	120.12	0.21	-1.27%
SEQ-CAL6@ 23J0976	114860.7	20.0	19.97	943.37	0.82	-0.15%
SEQ-CAL7@ 23J0977	287794.1	50.0	50.04	683.73	0.24	0.07%
Correlation Coef.: 0.999996 Slope: 5752 Intercept: 0.0						

Calibration data for Cd 228.802

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.04	1.26	N/A
SEQ-CAL1@ 23J0971	114.7	0.004	0.0040	0.70	0.61	0.21%
SEQ-CAL2@ 23J0972	3659.6	0.125	0.1279	13.63	0.37	2.35%
SEQ-CAL3@ 23J0973	14728.7	0.5	0.5149	130.60	0.89	2.98%
SEQ-CAL4@ 23J0974	28704.4	1.0	1.003	642.32	2.24	0.35%
SEQ-CAL5@ 23J0975	143605.4	5.0	5.020	434.97	0.30	0.41%
SEQ-CAL6@ 23J0976	285723.3	10.0	9.989	951.13	0.33	-0.11%
Correlation Coef.: 0.999997 Slope: 28600 Intercept: 0.0						

Calibration data for Co 228.616

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	11.34	10.79	N/A
SEQ-CAL1@ 23J0971	288.4	0.01	0.0103	4.63	1.61	3.24%
SEQ-CAL2@ 23J0972	3607.8	0.125	0.1291	30.04	0.83	3.31%
SEQ-CAL3@ 23J0973	14539.5	0.5	0.5204	434.08	2.99	4.09%
SEQ-CAL4@ 23J0974	28407.9	1.0	1.017	638.20	2.25	1.68%
SEQ-CAL5@ 23J0975	140651.7	5.0	5.035	428.60	0.30	0.69%
SEQ-CAL6@ 23J0976	278812.8	10.0	9.980	756.02	0.27	-0.20%
Correlation Coef.: 0.999991 Slope: 27940 Intercept: 0.0						

Calibration data for Cr 267.716

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

ID	(Em)	mg/L	mg/L	Deviation	%RSD	Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.87	10.70	N/A
SEQ-CAL1@ 23J0971	488.3	0.01	0.0104	2.47	0.51	3.63%
SEQ-CAL2@ 23J0972	6034.5	0.125	0.1281	67.77	1.12	2.45%
SEQ-CAL3@ 23J0973	24219.1	0.5	0.5140	757.50	3.13	2.79%
SEQ-CAL4@ 23J0974	47391.5	1.0	1.006	1048.90	2.21	0.57%
SEQ-CAL5@ 23J0975	236066.9	5.0	5.010	565.30	0.24	0.19%
SEQ-CAL6@ 23J0976	470935.5	10.0	9.994	1391.57	0.30	-0.06%

Correlation Coef.: 0.999999 Slope: 47120 Intercept: 0.0

Calibration data for Cu 327.393

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	78.15	6.94	N/A
SEQ-CAL1@ 23J0971	1073.9	0.01	0.0106	50.50	4.70	5.79%
SEQ-CAL2@ 23J0972	12205.2	0.125	0.1202	162.23	1.33	-3.82%
SEQ-CAL3@ 23J0973	50499.3	0.5	0.4974	1252.97	2.48	-0.51%
SEQ-CAL4@ 23J0974	99878.1	1.0	0.9838	2272.20	2.27	-1.62%
SEQ-CAL5@ 23J0975	503763.3	5.0	4.962	471.34	0.09	-0.76%
SEQ-CAL6@ 23J0976	1017294.4	10.0	10.02	3996.45	0.39	0.21%

Correlation Coef.: 0.999992 Slope: 101500 Intercept: 0.0

Calibration data for Fe 238.204

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.55	3.29	N/A
SEQ-CAL1@ 23J0971	177.9	0.05	0.0524	1.32	0.74	4.90%
SEQ-CAL2@ 23J0972	433.9	0.125	0.1280	5.16	1.19	2.36%
SEQ-CAL3@ 23J0973	1733.6	0.5	0.5112	52.12	3.01	2.24%
SEQ-CAL4@ 23J0974	3490.5	1.0	1.029	24.80	0.71	2.92%
SEQ-CAL5@ 23J0975	16684.6	5.0	4.920	7.15	0.04	-1.60%
SEQ-CAL6@ 23J0976	33491.7	10.0	9.876	358.35	1.07	-1.24%
SEQ-CAL7@ 23J0977	85002.2	25.0	25.06	242.93	0.29	0.26%

Correlation Coef.: 0.999982 Slope: 3391 Intercept: 0.0

Calibration data for K 766.490

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	99.64	10.40	N/A
SEQ-CAL4@ 23J0974	4172.8	2.0	2.089	64.10	1.54	4.45%
SEQ-CAL5@ 23J0975	19961.3	10.0	9.993	25.50	0.13	-0.07%
SEQ-CAL6@ 23J0976	40338.6	20.0	20.19	355.01	0.88	0.97%
SEQ-CAL7@ 23J0977	99714.6	50.0	49.92	230.17	0.23	-0.16%

Correlation Coef.: 0.999991 Slope: 1997 Intercept: 0.0

Calibration data for Mg 285.213

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.16	5.21	N/A
SEQ-CAL1@ 23J0971	557.2	0.05	0.0529	14.66	2.63	5.72%
SEQ-CAL2@ 23J0972	2759.8	0.25	0.2618	17.27	0.63	4.73%
SEQ-CAL3@ 23J0973	10969.8	1.0	1.041	371.04	3.38	4.07%
SEQ-CAL4@ 23J0974	22026.3	2.0	2.090	130.80	0.59	4.48%
SEQ-CAL5@ 23J0975	106123.1	10.0	10.07	33.86	0.03	0.68%
SEQ-CAL6@ 23J0976	213584.9	20.0	20.26	1848.01	0.87	1.31%
SEQ-CAL7@ 23J0977	525740.8	50.0	49.88	793.43	0.15	-0.25%

Correlation Coef.: 0.999984 Slope: 10540 Intercept: 0.0

Calibration data for Mn 257.610

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

ID	(Em)	mg/L	mg/L	Deviation	%RSD	Error
Cal Blank@ 23J0970	0.0	0	0.0000	9.32	2.80	N/A
SEQ-CAL1@ 23J0971	233.6	0.01	0.0102	6.39	2.74	2.42%
SEQ-CAL2@ 23J0972	2919.3	0.125	0.1280	26.89	0.92	2.38%
SEQ-CAL3@ 23J0973	11658.9	0.5	0.5111	358.02	3.07	2.22%
SEQ-CAL4@ 23J0974	23549.8	1.0	1.032	129.34	0.55	3.23%
SEQ-CAL5@ 23J0975	113518.1	5.0	4.976	146.42	0.13	-0.48%
SEQ-CAL6@ 23J0976	228305.5	10.0	10.01	1893.03	0.83	0.08%
Correlation Coef.: 0.999993 Slope: 22810 Intercept: 0.0						

Calibration data for Mo 202.031

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.13	3.20	N/A
SEQ-CAL1@ 23J0971	732.6	0.05	0.0510	7.53	1.03	2.09%
SEQ-CAL2@ 23J0972	1851.3	0.125	0.1290	10.59	0.57	3.19%
SEQ-CAL3@ 23J0973	7399.6	0.5	0.5156	70.69	0.96	3.12%
SEQ-CAL4@ 23J0974	14005.1	1.0	0.9758	358.98	2.56	-2.42%
SEQ-CAL5@ 23J0975	71769.6	5.0	5.001	139.63	0.19	0.01%
SEQ-CAL6@ 23J0976	143538.3	10.0	10.00	395.61	0.28	0.01%
Correlation Coef.: 0.999997 Slope: 14350 Intercept: 0.0						

Calibration data for Na 589.592

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	22.61	6.47	N/A
SEQ-CAL4@ 23J0974	19237.4	2.0	2.056	116.11	0.60	2.79%
SEQ-CAL5@ 23J0975	93066.2	10.0	9.945	224.44	0.24	-0.55%
SEQ-CAL6@ 23J0976	190891.2	20.0	20.40	1928.55	1.01	2.00%
SEQ-CAL7@ 23J0977	466471.0	50.0	49.85	2164.08	0.46	-0.30%
Correlation Coef.: 0.999969 Slope: 9358 Intercept: 0.0						

Calibration data for Ni 231.604

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.64	2.90	N/A
SEQ-CAL1@ 23J0971	249.2	0.01	0.0105	8.92	3.58	4.81%
SEQ-CAL2@ 23J0972	3065.9	0.125	0.1289	21.64	0.71	3.15%
SEQ-CAL3@ 23J0973	12373.6	0.5	0.5204	327.19	2.64	4.07%
SEQ-CAL4@ 23J0974	24254.0	1.0	1.020	585.65	2.41	2.00%
SEQ-CAL5@ 23J0975	119680.6	5.0	5.033	21.04	0.02	0.66%
SEQ-CAL6@ 23J0976	237318.1	10.0	9.980	1078.29	0.45	-0.20%
Correlation Coef.: 0.999991 Slope: 23780 Intercept: 0.0						

Calibration data for Pb 220.353

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.55	49.35	N/A
SEQ-CAL1@ 23J0971	39.9	0.01	0.0111	12.28	30.77	10.60%
SEQ-CAL2@ 23J0972	467.9	0.125	0.1297	5.48	1.17	3.75%
SEQ-CAL3@ 23J0973	1857.7	0.5	0.5149	18.59	1.00	2.98%
SEQ-CAL4@ 23J0974	3649.0	1.0	1.011	28.33	0.78	1.14%
SEQ-CAL5@ 23J0975	17880.7	5.0	4.956	161.61	0.90	-0.88%
SEQ-CAL6@ 23J0976	36151.7	10.0	10.02	700.37	1.94	0.20%
Correlation Coef.: 0.999989 Slope: 3608 Intercept: 0.0						

Calibration data for Sb 206.836

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	6.61	8.52	N/A

SEQ-CAL1@	23J0971	73.1	0.05	0.0380	3.46	4.73	-24.07%
SEQ-CAL2@	23J0972	240.7	0.125	0.1250	2.17	0.90	0.02%
SEQ-CAL3@	23J0973	957.0	0.5	0.4970	3.62	0.38	-0.60%
SEQ-CAL4@	23J0974	1847.0	1.0	0.9592	20.47	1.11	-4.08%
SEQ-CAL5@	23J0975	9453.3	5.0	4.909	103.47	1.09	-1.81%
SEQ-CAL6@	23J0976	19351.1	10.0	10.05	390.37	2.02	0.50%
Correlation Coef.: 0.999951 Slope: 1926 Intercept: 0.0							

No 6010 Sb
MJH
4-19-24

Calibration data for Se 196.026

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.21	41.92	N/A
SEQ-CAL1@ 23J0971	71.9	0.05	0.0447	2.78	3.86	-10.61%
SEQ-CAL2@ 23J0972	196.9	0.125	0.1224	1.99	1.01	-2.05%
SEQ-CAL3@ 23J0973	807.6	0.5	0.5021	11.57	1.43	0.42%
SEQ-CAL4@ 23J0974	1586.9	1.0	0.9866	16.34	1.03	-1.34%
SEQ-CAL5@ 23J0975	7915.8	5.0	4.921	82.61	1.04	-1.58%
SEQ-CAL6@ 23J0976	16150.5	10.0	10.04	386.19	2.39	0.41%
Correlation Coef.: 0.999968 Slope: 1609 Intercept: 0.0						

Calibration data for Sn 189.927

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	7.66	12.57	N/A
SEQ-CAL1@ 23J0971	431.8	0.1	0.0991	2.19	0.51	-0.93%
SEQ-CAL2@ 23J0972	556.1	0.125	0.1276	1.89	0.34	2.06%
SEQ-CAL3@ 23J0973	2228.1	0.5	0.5111	9.71	0.44	2.23%
SEQ-CAL4@ 23J0974	4253.7	1.0	0.9758	48.44	1.14	-2.42%
SEQ-CAL5@ 23J0975	21615.8	5.0	4.959	215.47	1.00	-0.82%
SEQ-CAL6@ 23J0976	43687.9	10.0	10.02	754.40	1.73	0.22%
Correlation Coef.: 0.999988 Slope: 4359 Intercept: 0.0						

Calibration data for Ti 337.279

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.93	5.48	N/A
SEQ-CAL1@ 23J0971	373.8	0.02	0.0203	9.74	2.61	1.38%
SEQ-CAL2@ 23J0972	2339.1	0.125	0.1269	16.44	0.70	1.51%
SEQ-CAL3@ 23J0973	9377.3	0.5	0.5087	309.35	3.30	1.74%
SEQ-CAL4@ 23J0974	18325.7	1.0	0.9941	116.23	0.63	-0.59%
SEQ-CAL5@ 23J0975	91562.0	5.0	4.967	234.36	0.26	-0.66%
SEQ-CAL6@ 23J0976	184641.9	10.0	10.02	1599.12	0.87	0.17%
Correlation Coef.: 0.999994 Slope: 18430 Intercept: 0.0						

Calibration data for Tl 351.924

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	40.81	249.89	N/A
SEQ-CAL1@ 23J0971	162.8	0.05	0.0480	3.66	2.25	-3.93%
SEQ-CAL2@ 23J0972	177.4	0.0625	0.0523	18.67	10.52	-16.28%
SEQ-CAL3@ 23J0973	824.4	0.25	0.2432	20.72	2.51	-2.74%
SEQ-CAL4@ 23J0974	1674.9	0.5	0.4940	21.61	1.29	-1.19%
SEQ-CAL5@ 23J0975	8517.0	2.5	2.512	67.17	0.79	0.49%
SEQ-CAL6@ 23J0976	16934.2	5.0	4.995	277.75	1.64	-0.10%
Correlation Coef.: 0.999994 Slope: 3390 Intercept: 0.0						

Calibration data for V 290.880

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.05	1.28	N/A

SEQ-CAL1@	23J0971	533.8	0.01	0.0085	22.21	4.16	-14.70%
SEQ-CAL2@	23J0972	7863.8	0.125	0.1257	85.42	1.09	0.54%
SEQ-CAL3@	23J0973	31591.8	0.5	0.5049	943.19	2.99	0.98%
SEQ-CAL4@	23J0974	62124.8	1.0	0.9929	1345.00	2.16	-0.71%
SEQ-CAL5@	23J0975	311966.4	5.0	4.986	335.66	0.11	-0.28%
SEQ-CAL6@	23J0976	626187.4	10.0	10.01	1850.00	0.30	0.08%

Correlation Coef.: 0.999999 Slope: 62570 Intercept: 0.0

Calibration data for Zn 206.200

Equation: Linear Through Zero

		Entered		Calculated		Residual	
ID	Mean Signal	Conc.	Conc.	Standard	%RSD	Error	
	(Em)	mg/L	mg/L	Deviation			
Cal Blank@ 23J0970	0.0	0	0.0000	0.42	0.21		N/A
SEQ-CAL1@ 23J0971	202.3	0.01	0.0107	5.77	2.85		6.89%
SEQ-CAL2@ 23J0972	2415.9	0.125	0.1277	12.11	0.50		2.13%
SEQ-CAL3@ 23J0973	9819.8	0.5	0.5189	64.04	0.65		3.78%
SEQ-CAL4@ 23J0974	19079.3	1.0	1.008	497.90	2.61		0.82%
SEQ-CAL5@ 23J0975	95169.8	5.0	5.029	146.60	0.15		0.58%
SEQ-CAL6@ 23J0976	188923.6	10.0	9.984	568.59	0.30		-0.16%

Correlation Coef.: 0.999994 Slope: 18920 Intercept: 0.0

Calibration data for Zr 343.823

Equation: Linear Through Zero

Calibration data for 21-045-025			Equation: Linear Through Zero			
ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	70.58	93.77	N/A
SEQ-CAL2@ 23J0972	21449.0	0.125	0.1244	203.73	0.95	-0.49%
SEQ-CAL3@ 23J0973	86958.9	0.5	0.5043	2017.53	2.32	0.85%
SEQ-CAL4@ 23J0974	166442.6	1.0	0.9652	3640.25	2.19	-3.48%
SEQ-CAL5@ 23J0975	860087.7	5.0	4.988	1816.92	0.21	-0.25%
SEQ-CAL6@ 23J0976	1726082.3	10.0	10.01	3960.80	0.23	0.09%

Correlation Coef.: 0.999994 Slope: 172400 Intercept: 0.0

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Analysis Begun

Start Time: 4/18/2024 10:10:43 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Method Loaded

Method Name: ICP3 012424_IEC*

Method Last Saved: 4/18/2024 9:09:38 AM

IEC File: 011224.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

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Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 10:10:44 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

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Replicate Data: SEQ-ICV@ 23I0972

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y radial	148601.2	148601.2	96.9 %	96.9 %	10:11:55 AM
1	Al 396.153†	8217.5	8444.4	2.177 mg/L	2.177 mg/L	10:11:57 AM
1	Ba 233.527†	6735.7	6919.1	2.006 mg/L	2.006 mg/L	10:11:57 AM
1	Be 313.107†	524240.0	541101.0	1.979 mg/L	1.979 mg/L	10:11:55 AM
1	Ca 317.933†	12797.7	12359.0	2.148 mg/L	2.148 mg/L	10:11:57 AM
1	Fe 238.204†	7066.8	7372.9	2.192 mg/L	2.192 mg/L	10:11:57 AM
1	K 766.490†	5185.2	4394.8	2.200 mg/L	2.200 mg/L	10:11:57 AM

1	Mg	285.213†	22852.5	23357.9	2.219 mg/L	2.219 mg/L	10:11:57 AM
1	Mn	257.610†	45833.0	47648.0	2.089 mg/L	2.089 mg/L	10:11:57 AM
1	Na	589.592†	19257.2	19530.4	2.087 mg/L	2.087 mg/L	10:11:55 AM
1	Ti	337.279†	36803.4	38229.2	2.074 mg/L	2.074 mg/L	10:11:57 AM
1	Y axial	1990416.4	1990416.4	97.7 %	97.7 %	97.7 %	10:12:13 AM
1	As	188.979†	2123.6	2228.1	1.942 mg/L	1.942 mg/L	10:12:33 AM
1	B	208.889†	13307.6	13458.6	1.850 mg/L	1.850 mg/L	10:12:33 AM
1	Cd	228.802†	56268.2	57430.3	1.991 mg/L	1.991 mg/L	10:12:13 AM
1	Co	228.616†	55620.5	56824.2	2.033 mg/L	2.033 mg/L	10:12:13 AM
1	Cr	267.716†	93917.7	96082.4	2.039 mg/L	2.039 mg/L	10:12:13 AM
1	Cu	327.393†	201450.2	205064.8	2.024 mg/L	2.024 mg/L	10:12:13 AM
1	Mo	202.031†	28365.9	28904.4	2.014 mg/L	2.014 mg/L	10:12:33 AM
1	Ni	231.604†	48359.6	49061.3	2.061 mg/L	2.061 mg/L	10:12:13 AM
1	Pb	220.353†	7029.1	7203.8	1.999 mg/L	1.999 mg/L	10:12:33 AM
1	Sb	206.836†	3764.4	3775.5	1.972 mg/L	1.972 mg/L	10:12:33 AM
1	Se	196.026†	3058.9	3125.7	1.942 mg/L	1.942 mg/L	10:12:33 AM
1	Sn	189.927†	8474.0	8734.4	2.008 mg/L	2.008 mg/L	10:12:33 AM
1	Tl	351.924†	3304.1	3398.2	1.012 mg/L	1.012 mg/L	10:12:33 AM
1	V	290.880†	122805.6	124755.6	2.049 mg/L	2.049 mg/L	10:12:13 AM
1	Zn	206.200†	37326.6	38404.2	2.049 mg/L	2.049 mg/L	10:12:13 AM
1	Zr	343.823†	337395.3	345259.9	2.002 mg/L	2.002 mg/L	10:12:13 AM
1	Ag	328.068†	55226.5	56446.8	1.130 mg/L	1.130 mg/L	10:13:53 AM
2	Y radial	151901.8	151901.8	99.0 %	99.0 %	99.0 %	10:11:59 AM
2	Al	396.153†	8063.2	8104.2	2.085 mg/L	2.085 mg/L	10:12:01 AM
2	Ba	233.527†	6619.4	6814.9	1.976 mg/L	1.976 mg/L	10:12:01 AM
2	Be	313.107†	535740.0	540955.8	1.979 mg/L	1.979 mg/L	10:11:59 AM
2	Ca	317.933†	12582.0	11854.2	2.060 mg/L	2.060 mg/L	10:12:01 AM
2	Fe	238.204†	6891.5	7037.3	2.093 mg/L	2.093 mg/L	10:12:01 AM
2	K	766.490†	5177.6	4270.8	2.138 mg/L	2.138 mg/L	10:12:01 AM
2	Mg	285.213†	22361.1	22349.0	2.123 mg/L	2.123 mg/L	10:12:01 AM
2	Mn	257.610†	44877.9	45655.4	2.002 mg/L	2.002 mg/L	10:12:01 AM
2	Na	589.592†	19692.8	19538.4	2.088 mg/L	2.088 mg/L	10:11:59 AM
2	Ti	337.279†	36180.8	36774.8	1.995 mg/L	1.995 mg/L	10:12:01 AM
2	Y axial	1986074.5	1986074.5	97.5 %	97.5 %	97.5 %	10:12:36 AM
2	As	188.979†	2113.7	2222.7	1.937 mg/L	1.937 mg/L	10:12:56 AM
2	B	208.889†	13340.1	13521.7	1.859 mg/L	1.859 mg/L	10:12:56 AM
2	Cd	228.802†	56047.3	57329.7	1.987 mg/L	1.987 mg/L	10:12:36 AM
2	Co	228.616†	55273.6	56592.8	2.025 mg/L	2.025 mg/L	10:12:36 AM
2	Cr	267.716†	93185.9	95541.8	2.028 mg/L	2.028 mg/L	10:12:36 AM
2	Cu	327.393†	199605.3	203623.0	2.009 mg/L	2.009 mg/L	10:12:36 AM
2	Mo	202.031†	28396.2	28998.9	2.021 mg/L	2.021 mg/L	10:12:56 AM
2	Ni	231.604†	48013.6	48814.7	2.051 mg/L	2.051 mg/L	10:12:36 AM
2	Pb	220.353†	7029.9	7220.3	2.003 mg/L	2.003 mg/L	10:12:56 AM
2	Sb	206.836†	3764.1	3783.6	1.977 mg/L	1.977 mg/L	10:12:56 AM
2	Se	196.026†	3064.1	3137.8	1.950 mg/L	1.950 mg/L	10:12:56 AM
2	Sn	189.927†	8478.2	8757.7	2.013 mg/L	2.013 mg/L	10:12:56 AM
2	Tl	351.924†	3318.6	3420.4	1.019 mg/L	1.019 mg/L	10:12:56 AM
2	V	290.880†	121927.9	124130.1	2.039 mg/L	2.039 mg/L	10:12:36 AM
2	Zn	206.200†	37111.2	38266.7	2.042 mg/L	2.042 mg/L	10:12:36 AM
2	Zr	343.823†	334903.0	343458.4	1.992 mg/L	1.992 mg/L	10:12:36 AM
2	Ag	328.068†	58036.6	59452.9	1.190 mg/L	1.190 mg/L	10:13:55 AM
3	Y radial	152742.0	152742.0	99.6 %	99.6 %	99.6 %	10:12:03 AM
3	Al	396.153†	8019.7	8015.8	2.063 mg/L	2.063 mg/L	10:12:05 AM
3	Ba	233.527†	6682.3	6789.3	1.968 mg/L	1.968 mg/L	10:12:05 AM
3	Be	313.107†	536846.5	539091.1	1.972 mg/L	1.972 mg/L	10:12:03 AM
3	Ca	317.933†	12592.4	11794.7	2.050 mg/L	2.050 mg/L	10:12:05 AM
3	Fe	238.204†	6906.5	7014.1	2.086 mg/L	2.086 mg/L	10:12:05 AM
3	K	766.490†	5220.4	4285.0	2.145 mg/L	2.145 mg/L	10:12:05 AM
3	Mg	285.213†	22389.4	22253.3	2.114 mg/L	2.114 mg/L	10:12:05 AM
3	Mn	257.610†	45005.1	45533.8	1.997 mg/L	1.997 mg/L	10:12:05 AM
3	Na	589.592†	19711.6	19447.8	2.078 mg/L	2.078 mg/L	10:12:03 AM
3	Ti	337.279†	36080.8	36473.4	1.979 mg/L	1.979 mg/L	10:12:05 AM
3	Y axial	2012505.3	2012505.3	98.8 %	98.8 %	98.8 %	10:12:58 AM
3	As	188.979†	2132.3	2213.1	1.929 mg/L	1.929 mg/L	10:13:19 AM
3	B	208.889†	13407.4	13410.1	1.844 mg/L	1.844 mg/L	10:13:19 AM
3	Cd	228.802†	56995.4	57534.4	1.995 mg/L	1.995 mg/L	10:12:58 AM
3	Co	228.616†	56281.6	56868.6	2.035 mg/L	2.035 mg/L	10:12:58 AM
3	Cr	267.716†	95116.8	96241.1	2.043 mg/L	2.043 mg/L	10:12:58 AM
3	Cu	327.393†	203385.0	204760.2	2.020 mg/L	2.020 mg/L	10:12:58 AM
3	Mo	202.031†	28416.0	28636.4	1.996 mg/L	1.996 mg/L	10:13:19 AM

3	Ni	231.604†	48698.2	48860.8	2.053 mg/L	2.053 mg/L	10:12:58 AM
3	Pb	220.353†	7034.4	7130.1	1.978 mg/L	1.978 mg/L	10:13:19 AM
3	Sb	206.836†	3761.9	3730.6	1.949 mg/L	1.949 mg/L	10:13:19 AM
3	Se	196.026†	3063.6	3096.1	1.924 mg/L	1.924 mg/L	10:13:19 AM
3	Sn	189.927†	8511.3	8676.9	1.995 mg/L	1.995 mg/L	10:13:19 AM
3	Tl	351.924†	3323.4	3380.6	1.007 mg/L	1.007 mg/L	10:13:19 AM
3	V	290.880†	124230.8	124818.7	2.049 mg/L	2.049 mg/L	10:12:58 AM
3	Zn	206.200†	37783.7	38447.6	2.052 mg/L	2.052 mg/L	10:12:58 AM
3	Zr	343.823†	340539.3	344652.2	1.999 mg/L	1.999 mg/L	10:12:58 AM
3	Ag	328.068†	55767.1	56373.6	1.129 mg/L	1.129 mg/L	10:13:57 AM
4	Y radial		151540.6	151540.6	98.8 %	98.8 %	10:12:08 AM
4	Al	396.153†	7923.8	7982.5	2.050 mg/L	2.050 mg/L	10:12:10 AM
4	Ba	233.527†	6488.9	6834.1	1.981 mg/L	1.981 mg/L	10:12:10 AM
4	Be	313.107†	533703.0	540183.4	1.976 mg/L	1.976 mg/L	10:12:08 AM
4	Ca	317.933†	12370.9	11670.8	2.028 mg/L	2.028 mg/L	10:12:10 AM
4	Fe	238.204†	6795.0	6956.2	2.069 mg/L	2.069 mg/L	10:12:10 AM
4	K	766.490†	5157.3	4262.7	2.134 mg/L	2.134 mg/L	10:12:10 AM
4	Mg	285.213†	22107.7	22146.3	2.104 mg/L	2.104 mg/L	10:12:10 AM
4	Mn	257.610†	44286.3	45164.6	1.981 mg/L	1.981 mg/L	10:12:10 AM
4	Na	589.592†	19676.8	19569.6	2.091 mg/L	2.091 mg/L	10:12:08 AM
4	Ti	337.279†	35621.1	36295.3	1.969 mg/L	1.969 mg/L	10:12:10 AM
4	Y axial		1941399.8	1941399.8	95.3 %	95.3 %	10:13:21 AM
4	As	188.979†	2129.2	2288.9	1.994 mg/L	1.994 mg/L	10:13:41 AM
4	B	208.889†	13462.4	13964.9	1.921 mg/L	1.921 mg/L	10:13:41 AM
4	Cd	228.802†	54933.0	57483.3	1.992 mg/L	1.992 mg/L	10:13:21 AM
4	Co	228.616†	54130.2	56697.7	2.029 mg/L	2.029 mg/L	10:13:21 AM
4	Cr	267.716†	91131.5	95585.6	2.029 mg/L	2.029 mg/L	10:13:21 AM
4	Cu	327.393†	196337.5	204905.5	2.022 mg/L	2.022 mg/L	10:13:21 AM
4	Mo	202.031†	28566.3	29847.7	2.080 mg/L	2.080 mg/L	10:13:41 AM
4	Ni	231.604†	46931.1	48812.0	2.051 mg/L	2.051 mg/L	10:13:21 AM
4	Pb	220.353†	7036.3	7393.0	2.051 mg/L	2.051 mg/L	10:13:41 AM
4	Sb	206.836†	3773.9	3882.7	2.029 mg/L	2.029 mg/L	10:13:41 AM
4	Se	196.026†	3065.1	3211.2	1.995 mg/L	1.995 mg/L	10:13:41 AM
4	Sn	189.927†	8490.5	8970.7	2.062 mg/L	2.062 mg/L	10:13:41 AM
4	Tl	351.924†	3333.9	3514.8	1.047 mg/L	1.047 mg/L	10:13:41 AM
4	V	290.880†	119539.9	124502.2	2.046 mg/L	2.046 mg/L	10:13:21 AM
4	Zn	206.200†	36074.8	38055.2	2.031 mg/L	2.031 mg/L	10:13:21 AM
4	Zr	343.823†	328910.7	345075.4	2.001 mg/L	2.001 mg/L	10:13:21 AM
4	Ag	328.068†	57328.1	60079.4	1.203 mg/L	1.203 mg/L	10:13:59 AM

Mean Data: SEQ-ICV@ 2310972

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151196.4	98.6 %	1.17	98.6 %	1.17	1.19%
Y axial	1982599.0	97.3 %	1.46	97.3 %	1.46	1.50%
Ag 328.068†	58088.1	1.163 mg/L	0.0391	1.163 mg/L	0.0391	3.37%
QC value greater than the upper limit for Ag 328.068 Recovery = 116.29%						
Al 396.153†	8136.7	2.094 mg/L	0.0575	2.094 mg/L	0.0575	2.74%
QC value within limits for Al 396.153 Recovery = 104.69%						
As 188.979†	2238.2	1.950 mg/L	0.0297	1.950 mg/L	0.0297	1.52%
QC value within limits for As 188.979 Recovery = 97.52%						
B 208.889†	13588.9	1.869 mg/L	0.0351	1.869 mg/L	0.0351	1.88%
QC value less than the lower limit for B 208.889 Recovery = 93.43%						
Ba 233.527†	6839.4	1.983 mg/L	0.0163	1.983 mg/L	0.0163	0.82%
QC value within limits for Ba 233.527 Recovery = 99.15%						
Be 313.107†	540332.8	1.976 mg/L	0.0034	1.976 mg/L	0.0034	0.17%
QC value within limits for Be 313.107 Recovery = 98.81%						
Ca 317.933†	11919.7	2.072 mg/L	0.0526	2.072 mg/L	0.0526	2.54%
QC value within limits for Ca 317.933 Recovery = 103.59%						
Cd 228.802†	57444.4	1.991 mg/L	0.0030	1.991 mg/L	0.0030	0.15%
QC value within limits for Cd 228.802 Recovery = 99.57%						
Co 228.616†	56745.8	2.031 mg/L	0.0044	2.031 mg/L	0.0044	0.22%
QC value within limits for Co 228.616 Recovery = 101.54%						
Cr 267.716†	95862.7	2.035 mg/L	0.0075	2.035 mg/L	0.0075	0.37%
QC value within limits for Cr 267.716 Recovery = 101.74%						
Cu 327.393†	204588.4	2.019 mg/L	0.0065	2.019 mg/L	0.0065	0.32%
QC value within limits for Cu 327.393 Recovery = 100.94%						
Fe 238.204†	7095.1	2.110 mg/L	0.0555	2.110 mg/L	0.0555	2.63%
QC value greater than the upper limit for Fe 238.204 Recovery = 105.51%						

No Ag
No 200.7 B, Fe, K, Mg
MJH 4-19-24

K 766.490† 4303.3 2.154 mg/L 0.0309 2.154 mg/L 0.0309 1.43%
 QC value greater than the upper limit for K 766.490 Recovery = 107.70%
 Mg 285.213† 22526.6 2.140 mg/L 0.0532 2.140 mg/L 0.0532 2.49%
 QC value greater than the upper limit for Mg 285.213 Recovery = 106.99%
 Mn 257.610† 46000.4 2.017 mg/L 0.0490 2.017 mg/L 0.0490 2.43%
 QC value within limits for Mn 257.610 Recovery = 100.86%
 Mo 202.031† 29096.9 2.028 mg/L 0.0365 2.028 mg/L 0.0365 1.80%
 QC value within limits for Mo 202.031 Recovery = 101.38%
 Na 589.592† 19521.6 2.086 mg/L 0.0056 2.086 mg/L 0.0056 0.27%
 QC value within limits for Na 589.592 Recovery = 104.31%
 Ni 231.604† 48887.2 2.054 mg/L 0.0050 2.054 mg/L 0.0050 0.24%
 QC value within limits for Ni 231.604 Recovery = 102.69%
 Pb 220.353† 7236.8 2.008 mg/L 0.0309 2.008 mg/L 0.0309 1.54%
 QC value within limits for Pb 220.353 Recovery = 100.39%
 Sb 206.836† 3793.1 1.982 mg/L 0.0341 1.982 mg/L 0.0341 1.72%
 QC value within limits for Sb 206.836 Recovery = 99.08%
 Se 196.026† 3142.7 1.953 mg/L 0.0304 1.953 mg/L 0.0304 1.56%
 QC value within limits for Se 196.026 Recovery = 97.63%
 Sn 189.927† 8784.9 2.019 mg/L 0.0294 2.019 mg/L 0.0294 1.46%
 QC value within limits for Sn 189.927 Recovery = 100.97%
 Ti 337.279† 36943.2 2.004 mg/L 0.0477 2.004 mg/L 0.0477 2.38%
 QC value within limits for Ti 337.279 Recovery = 100.21%
 Tl 351.924† 3428.5 1.021 mg/L 0.0177 1.021 mg/L 0.0177 1.73%
 QC value within limits for Tl 351.924 Recovery = 102.11%
 V 290.880† 124551.6 2.046 mg/L 0.0048 2.046 mg/L 0.0048 0.24%
 QC value within limits for V 290.880 Recovery = 102.29%
 Zn 206.200† 38293.4 2.044 mg/L 0.0094 2.044 mg/L 0.0094 0.46%
 QC value within limits for Zn 206.200 Recovery = 102.18%
 Zr 343.823† 344611.5 1.998 mg/L 0.0047 1.998 mg/L 0.0047 0.23%
 QC value within limits for Zr 343.823 Recovery = 99.92%
 QC Failed. Continue with analysis.
 User canceled analysis.

No Ag
 No 200.7 B, Fe, K, Mg
 MJH 4-19-24

Analysis Begun

Start Time: 4/18/2024 10:26:28 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
 0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Method Loaded

Method Name: ICP3 012424_IEC*

Method Last Saved: 4/18/2024 10:14:02 AM

IEC File: 011224.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

Batch ID: OPTIMA 3

Sequence No.: 2

Sample ID: SEQ-ICB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample):

Autosampler Location: 1

Date Collected: 4/18/2024 10:26:39 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151345.8	98.7 %	0.12	98.7 %	0.12	0.12%
Y axial	2005958.3	98.5 %	0.73	98.5 %	0.73	0.74%
Ag 328.068†	1379.7	0.0276 mg/L	0.00070	0.0276 mg/L	0.00070	2.53%
QC value	greater than the upper limit for Ag 328.068 Recovery = Not calculated					
Al 396.153†	-3.5	-0.0010 mg/L	0.00871	-0.0010 mg/L	0.00871	914.17%
QC value	within limits for Al 396.153 Recovery = Not calculated					
As 188.979†	6.2	0.0054 mg/L	0.00429	0.0054 mg/L	0.00429	79.70%
QC value	greater than the upper limit for As 188.979 Recovery = Not calculated					
B 208.889†	85.1	0.0123 mg/L	0.00097	0.0123 mg/L	0.00097	7.89%
QC value	within limits for B 208.889 Recovery = Not calculated					
Ba 233.527†	2.5	0.0007 mg/L	0.00060	0.0007 mg/L	0.00060	83.59%
QC value	within limits for Ba 233.527 Recovery = Not calculated					
Be 313.107†	18.1	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	33.52%
QC value	within limits for Be 313.107 Recovery = Not calculated					
Ca 317.933†	0.5	0.0001 mg/L	0.00165	0.0001 mg/L	0.00165	>999.9%
QC value	within limits for Ca 317.933 Recovery = Not calculated					
Cd 228.802†	-1.6	-0.0001 mg/L	0.00032	-0.0001 mg/L	0.00032	257.57%
QC value	within limits for Cd 228.802 Recovery = Not calculated					
Co 228.616†	-8.5	-0.0003 mg/L	0.00020	-0.0003 mg/L	0.00020	65.02%
QC value	within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	10.6	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	80.28%
QC value	within limits for Cr 267.716 Recovery = Not calculated					
Cu 327.393†	220.7	0.0022 mg/L	0.00056	0.0022 mg/L	0.00056	25.72%
QC value	within limits for Cu 327.393 Recovery = Not calculated					
Fe 238.204†	2.7	0.0008 mg/L	0.00035	0.0008 mg/L	0.00035	44.12%
QC value	within limits for Fe 238.204 Recovery = Not calculated					
K 766.490†	48.5	0.0243 mg/L	0.04475	0.0243 mg/L	0.04475	184.23%
QC value	within limits for K 766.490 Recovery = Not calculated					
Mg 285.213†	15.5	0.0015 mg/L	0.00050	0.0015 mg/L	0.00050	34.08%
QC value	within limits for Mg 285.213 Recovery = Not calculated					
Mn 257.610†	1.0	0.0000 mg/L	0.00042	0.0000 mg/L	0.00042	943.99%
QC value	within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	0.8	0.0001 mg/L	0.00047	0.0001 mg/L	0.00047	848.25%
QC value	within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592†	9.2	0.0010 mg/L	0.00774	0.0010 mg/L	0.00774	785.96%
QC value	within limits for Na 589.592 Recovery = Not calculated					
Ni 231.604†	-16.4	-0.0007 mg/L	0.00075	-0.0007 mg/L	0.00075	108.69%
QC value	within limits for Ni 231.604 Recovery = Not calculated					
Pb 220.353†	12.4	0.0034 mg/L	0.00073	0.0034 mg/L	0.00073	21.17%
QC value	within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	4.5	0.0023 mg/L	0.00268	0.0023 mg/L	0.00268	115.08%
QC value	within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-2.6	-0.0016 mg/L	0.00237	-0.0016 mg/L	0.00237	146.48%
QC value	within limits for Se 196.026 Recovery = Not calculated					
Sn 189.927†	-0.2	-0.0000 mg/L	0.00066	-0.0000 mg/L	0.00066	>999.9%

No Ag
No H2O As (TCLP/SOIL OK)
MJH 4-1-24

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 14.0 0.0008 mg/L 0.00184 0.0008 mg/L 0.00184 242.90%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 8.9 0.0026 mg/L 0.00996 0.0026 mg/L 0.00996 376.96%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 18.0 0.0003 mg/L 0.00018 0.0003 mg/L 0.00018 60.61%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 38.8 0.0021 mg/L 0.00038 0.0021 mg/L 0.00038 18.53%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 75.3 0.0004 mg/L 0.00014 0.0004 mg/L 0.00014 32.59%
 QC Failed. Continue with analysis.

Batch ID: OPTIMA 3

Sequence No.: 3

Sample ID: SEQ-LCV@ 23I0974

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 10

Date Collected: 4/18/2024 10:32:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@ 23I0974

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150826.0	98.3 %	0.50	98.3 %	0.50	0.51%
Y axial	2020818.5	99.2 %	0.97	99.2 %	0.97	0.97%
Ag 328.068†	1317.6	0.0264 mg/L	0.00036	0.0264 mg/L	0.00036	1.38%
QC value greater than the upper limit for Ag 328.068						Recovery = 263.78%
Al 396.153†	353.2	0.0925 mg/L	0.01550	0.0925 mg/L	0.01550	16.77%
QC value greater than the upper limit for Al 396.153						Recovery = 184.92%
As 188.979†	12.8	0.0109 mg/L	0.00445	0.0109 mg/L	0.00445	41.01%
QC value within limits for As 188.979						Recovery = 108.59%
B 208.889†	729.5	0.1031 mg/L	0.00006	0.1031 mg/L	0.00006	0.05%
QC value within limits for B 208.889						Recovery = 103.05%
Ba 233.527†	181.1	0.0525 mg/L	0.00077	0.0525 mg/L	0.00077	1.47%
QC value within limits for Ba 233.527						Recovery = 105.05%
Be 313.107†	1142.6	0.0041 mg/L	0.00003	0.0041 mg/L	0.00003	0.74%
QC value within limits for Be 313.107						Recovery = 103.50%
Ca 317.933†	3012.1	0.5237 mg/L	0.00238	0.5237 mg/L	0.00238	0.45%
QC value within limits for Ca 317.933						Recovery = 104.73%
Cd 228.802†	113.5	0.0039 mg/L	0.00021	0.0039 mg/L	0.00021	5.31%
QC value within limits for Cd 228.802						Recovery = 96.64%
Co 228.616†	286.7	0.0104 mg/L	0.00007	0.0104 mg/L	0.00007	0.63%
QC value within limits for Co 228.616						Recovery = 103.58%
Cr 267.716†	514.4	0.0109 mg/L	0.00015	0.0109 mg/L	0.00015	1.36%
QC value within limits for Cr 267.716						Recovery = 109.19%
Cu 327.393†	1951.0	0.0193 mg/L	0.00065	0.0193 mg/L	0.00065	3.36%
QC value greater than the upper limit for Cu 327.393						Recovery = 192.54%
Fe 238.204†	185.9	0.0549 mg/L	0.00152	0.0549 mg/L	0.00152	2.77%
QC value within limits for Fe 238.204						Recovery = 109.83%
K 766.490†	4238.8	2.122 mg/L	0.0869	2.122 mg/L	0.0869	4.10%
QC value within limits for K 766.490						Recovery = 106.10%
Mg 285.213†	595.0	0.0563 mg/L	0.00015	0.0563 mg/L	0.00015	0.27%
QC value within limits for Mg 285.213						Recovery = 112.70%
Mn 257.610†	232.7	0.0102 mg/L	0.00013	0.0102 mg/L	0.00013	1.31%
QC value within limits for Mn 257.610						Recovery = 102.03%
Mo 202.031†	751.9	0.0524 mg/L	0.00018	0.0524 mg/L	0.00018	0.34%
QC value within limits for Mo 202.031						Recovery = 104.77%
Na 589.592†	19386.3	2.072 mg/L	0.0225	2.072 mg/L	0.0225	1.09%
QC value within limits for Na 589.592						Recovery = 103.59%
Ni 231.604†	252.8	0.0106 mg/L	0.00015	0.0106 mg/L	0.00015	1.40%
QC value within limits for Ni 231.604						Recovery = 106.24%
Pb 220.353†	48.3	0.0134 mg/L	0.00117	0.0134 mg/L	0.00117	8.71%
QC value greater than the upper limit for Pb 220.353						Recovery = 134.47%
Sb 206.836†	79.0	0.0425 mg/L	0.00275	0.0425 mg/L	0.00275	6.48%
QC value within limits for Sb 206.836						Recovery = 84.96%
Se 196.026†	72.7	0.0452 mg/L	0.00152	0.0452 mg/L	0.00152	3.37%
QC value within limits for Se 196.026						Recovery = 90.45%
Sn 189.927†	454.9	0.1045 mg/L	0.00113	0.1045 mg/L	0.00113	1.08%

No Ag, Al
 RR Cu, Pb, Zn
 MJH 4-19-24

QC value within limits for Sn 189.927 Recovery = 104.48%
 Ti 337.279† 386.2 0.0210 mg/L 0.00060 0.0210 mg/L 0.00060 2.89%
 QC value within limits for Ti 337.279 Recovery = 104.76%
 Tl 351.924† 136.8 0.0406 mg/L 0.00998 0.0406 mg/L 0.00998 24.60%
 QC value within limits for Tl 351.924 Recovery = 81.17%
 V 290.880† 568.5 0.0103 mg/L 0.00022 0.0103 mg/L 0.00022 2.10%
 QC value within limits for V 290.880 Recovery = 103.41%
 Zn 206.200† 270.2 0.0142 mg/L 0.00049 0.0142 mg/L 0.00049 3.48%
 QC value greater than the upper limit for Zn 206.200 Recovery = 142.09%
 Zr 343.823† 154.6 0.0009 mg/L 0.00034 0.0009 mg/L 0.00034 38.28%
 QC Failed. Continue with analysis.

=====

Batch ID: OPTIMA 3

Sequence No.: 4

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 10:40:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153138.7	99.8 %	0.52	99.8 %	0.52	0.52%
Y axial	1999967.9	98.2 %	1.60	98.2 %	1.60	1.62%
Ag 328.068†	133015.1	2.663 mg/L	0.0779	2.663 mg/L	0.0779	2.93%
QC value within limits for Ag 328.068			Recovery = 106.52%			
Al 396.153†	37993.3	9.980 mg/L	0.0202	9.980 mg/L	0.0202	0.20%
QC value within limits for Al 396.153			Recovery = 99.80%			
As 188.979†	5621.1	4.898 mg/L	0.0759	4.898 mg/L	0.0759	1.55%
QC value within limits for As 188.979			Recovery = 97.96%			
B 208.889†	33786.1	4.643 mg/L	0.0681	4.643 mg/L	0.0681	1.47%
QC value within limits for B 208.889			Recovery = 92.87%			
Ba 233.527†	17165.4	4.977 mg/L	0.0374	4.977 mg/L	0.0374	0.75%
QC value within limits for Ba 233.527			Recovery = 99.54%			
Be 313.107†	1357095.9	4.963 mg/L	0.1045	4.963 mg/L	0.1045	2.10%
QC value within limits for Be 313.107			Recovery = 99.27%			
Ca 317.933†	58399.4	10.15 mg/L	0.007	10.15 mg/L	0.007	0.07%
QC value within limits for Ca 317.933			Recovery = 101.52%			
Cd 228.802†	143737.0	4.983 mg/L	0.0038	4.983 mg/L	0.0038	0.08%
QC value within limits for Cd 228.802			Recovery = 99.65%			
Co 228.616†	141941.9	5.080 mg/L	0.0088	5.080 mg/L	0.0088	0.17%
QC value within limits for Co 228.616			Recovery = 101.59%			
Cr 267.716†	237462.5	5.040 mg/L	0.0101	5.040 mg/L	0.0101	0.20%
QC value within limits for Cr 267.716			Recovery = 100.81%			
Cu 327.393†	506362.8	4.997 mg/L	0.0161	4.997 mg/L	0.0161	0.32%
QC value within limits for Cu 327.393			Recovery = 99.93%			
Fe 238.204†	16891.3	5.026 mg/L	0.0227	5.026 mg/L	0.0227	0.45%
QC value within limits for Fe 238.204			Recovery = 100.51%			
K 766.490†	20174.3	10.10 mg/L	0.022	10.10 mg/L	0.022	0.21%
QC value within limits for K 766.490			Recovery = 100.99%			
Mg 285.213†	106543.2	10.11 mg/L	0.018	10.11 mg/L	0.018	0.18%
QC value within limits for Mg 285.213			Recovery = 101.13%			
Mn 257.610†	115827.9	5.079 mg/L	0.0100	5.079 mg/L	0.0100	0.20%
QC value within limits for Mn 257.610			Recovery = 101.59%			
Mo 202.031†	73187.1	5.100 mg/L	0.0245	5.100 mg/L	0.0245	0.48%
QC value within limits for Mo 202.031			Recovery = 102.00%			
Na 589.592†	93494.6	9.991 mg/L	0.2007	9.991 mg/L	0.2007	2.01%
QC value within limits for Na 589.592			Recovery = 99.91%			
Ni 231.604†	123261.3	5.178 mg/L	0.0190	5.178 mg/L	0.0190	0.37%
QC value within limits for Ni 231.604			Recovery = 103.57%			
Pb 220.353†	18044.3	5.007 mg/L	0.0709	5.007 mg/L	0.0709	1.42%
QC value within limits for Pb 220.353			Recovery = 100.14%			
Sb 206.836†	9421.1	4.922 mg/L	0.0705	4.922 mg/L	0.0705	1.43%
QC value within limits for Sb 206.836			Recovery = 98.44%			
Se 196.026†	7919.3	4.920 mg/L	0.0714	4.920 mg/L	0.0714	1.45%
QC value within limits for Se 196.026			Recovery = 98.40%			
Sn 189.927†	21611.6	4.977 mg/L	0.0742	4.977 mg/L	0.0742	1.49%

QC value within limits for Sn 189.927 Recovery = 99.55%
 Ti 337.279† 92554.7 5.021 mg/L 0.0052 5.021 mg/L 0.0052 0.10%
 QC value within limits for Ti 337.279 Recovery = 100.42%
 Tl 351.924† 8433.7 2.512 mg/L 0.0469 2.512 mg/L 0.0469 1.87%
 QC value within limits for Tl 351.924 Recovery = 100.49%
 V 290.880† 314397.5 5.163 mg/L 0.0117 5.163 mg/L 0.0117 0.23%
 QC value within limits for V 290.880 Recovery = 103.26%
 Zn 206.200† 98632.7 5.262 mg/L 0.0300 5.262 mg/L 0.0300 0.57%
 QC value within limits for Zn 206.200 Recovery = 105.23%
 Zr 343.823† 874889.9 5.073 mg/L 0.0141 5.073 mg/L 0.0141 0.28%
 All analyte(s) passed QC.

Batch ID: OPTIMA 3

Sequence No.: 5

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 11

Date Collected: 4/18/2024 10:47:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151367.9	98.7 %	0.78	98.7 %	0.78	0.79%
Y axial	1840921.8	90.4 %	0.61	90.4 %	0.61	0.68%
Ag 328.068†	2623.1	0.0555 mg/L	0.00081	0.0555 mg/L	0.00081	1.46%
QC value greater than the upper limit for Ag 328.068						Recovery = Not calculated
Al 396.153†	948179.5	255.0 mg/L	4.10	255.0 mg/L	4.10	1.61%
QC value within limits for Al 396.153						Recovery = 101.99%
As 188.979†	-14.4	0.0049 mg/L	0.00687	0.0049 mg/L	0.00687	139.10%
QC value within limits for As 188.979						Recovery = Not calculated
B 208.889†	104.6	0.0160 mg/L	0.00138	0.0160 mg/L	0.00138	8.61%
QC value within limits for B 208.889						Recovery = Not calculated
Ba 233.527†	22.8	0.0022 mg/L	0.00112	0.0022 mg/L	0.00112	50.45%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 313.107†	70.7	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.43%
QC value within limits for Be 313.107						Recovery = Not calculated
Ca 317.933†	1431055.3	248.8 mg/L	3.61	248.8 mg/L	3.61	1.45%
QC value within limits for Ca 317.933						Recovery = 99.51%
Cd 228.802†	1.1	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	48.37%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	21.9	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.61%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	-204.2	-0.0005 mg/L	0.00009	-0.0005 mg/L	0.00009	19.51%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 327.393†	8.9	0.0032 mg/L	0.00026	0.0032 mg/L	0.00026	8.24%
QC value within limits for Cu 327.393						Recovery = Not calculated
Fe 238.204†	336625.0	99.25 mg/L	1.687	99.25 mg/L	1.687	1.70%
QC value within limits for Fe 238.204						Recovery = 99.25%
K 766.490†	22.2	-0.0063 mg/L	0.07323	-0.0063 mg/L	0.07323	>999.9%
QC value within limits for K 766.490						Recovery = Not calculated
Mg 285.213†	2553278.7	242.2 mg/L	4.01	242.2 mg/L	4.01	1.66%
QC value within limits for Mg 285.213						Recovery = 96.90%
Mn 257.610†	119.9	0.0070 mg/L	0.00207	0.0070 mg/L	0.00207	29.49%
QC value within limits for Mn 257.610						Recovery = Not calculated
Mo 202.031†	-255.1	-0.0157 mg/L	0.00088	-0.0157 mg/L	0.00088	5.59%
QC value within limits for Mo 202.031						Recovery = Not calculated
Na 589.592†	397.0	0.0424 mg/L	0.01197	0.0424 mg/L	0.01197	28.22%
QC value within limits for Na 589.592						Recovery = Not calculated
Ni 231.604†	26.5	0.0011 mg/L	0.00042	0.0011 mg/L	0.00042	37.53%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	-72.8	-0.0031 mg/L	0.00090	-0.0031 mg/L	0.00090	29.11%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	3.1	-0.0058 mg/L	0.00383	-0.0058 mg/L	0.00383	66.30%
QC value within limits for Sb 206.836						Recovery = Not calculated
Se 196.026†	-249.2	-0.0272 mg/L	0.00161	-0.0272 mg/L	0.00161	5.92%
QC value within limits for Se 196.026						Recovery = Not calculated
Sn 189.927†	-2256.2	-0.0528 mg/L	0.00755	-0.0528 mg/L	0.00755	14.31%

No Ag
MJH 4-19-24

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -4.4 -0.0002 mg/L 0.00077 -0.0002 mg/L 0.00077 321.42%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -36.3 0.0006 mg/L 0.00232 0.0006 mg/L 0.00232 396.49%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 990.2 -0.0038 mg/L 0.00118 -0.0038 mg/L 0.00118 31.31%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -8.9 0.0032 mg/L 0.00038 0.0032 mg/L 0.00038 12.03%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 656.9 0.0038 mg/L 0.00019 0.0038 mg/L 0.00019 4.94%
 QC Failed. Continue with analysis.

Batch ID: OPTIMA 3

Sequence No.: 6

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/18/2024 10:53:15 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150799.5	98.3 %	1.88	98.3 %	1.88	1.91%
Y axial	1850708.6	90.8 %	1.13	90.8 %	1.13	1.24%
Ag 328.068†	25697.3	0.5174 mg/L	0.01714	0.5174 mg/L	0.01714	3.31%
QC value greater than the upper limit for Ag 328.068						Recovery = 129.35%
Al 396.153†	954969.4	256.8 mg/L	0.37	256.8 mg/L	0.37	0.15%
QC value within limits for Al 396.153						Recovery = 102.72%
As 188.979†	204.1	0.2011 mg/L	0.00094	0.2011 mg/L	0.00094	0.47%
QC value within limits for As 188.979						Recovery = 100.53%
B 208.889†	67.1	0.0106 mg/L	0.00044	0.0106 mg/L	0.00044	4.18%
QC value within limits for B 208.889						Recovery = Not calculated
Ba 233.527†	3570.2	1.031 mg/L	0.0172	1.031 mg/L	0.0172	1.66%
QC value within limits for Ba 233.527						Recovery = 103.08%
Be 313.107†	274213.8	1.003 mg/L	0.0040	1.003 mg/L	0.0040	0.40%
QC value within limits for Be 313.107						Recovery = 100.32%
Ca 317.933†	1433621.6	249.2 mg/L	0.86	249.2 mg/L	0.86	0.34%
QC value within limits for Ca 317.933						Recovery = 99.69%
Cd 228.802†	58104.4	2.032 mg/L	0.0100	2.032 mg/L	0.0100	0.49%
QC value within limits for Cd 228.802						Recovery = 101.61%
Co 228.616†	26023.1	0.9303 mg/L	0.00465	0.9303 mg/L	0.00465	0.50%
QC value within limits for Co 228.616						Recovery = 93.03%
Cr 267.716†	45912.6	0.9784 mg/L	0.00136	0.9784 mg/L	0.00136	0.14%
QC value within limits for Cr 267.716						Recovery = 97.84%
Cu 327.393†	103299.5	1.021 mg/L	0.0035	1.021 mg/L	0.0035	0.35%
QC value within limits for Cu 327.393						Recovery = 102.07%
Fe 238.204†	338551.4	99.83 mg/L	0.445	99.83 mg/L	0.445	0.45%
QC value within limits for Fe 238.204						Recovery = 99.83%
K 766.490†	151.4	0.0582 mg/L	0.01044	0.0582 mg/L	0.01044	17.92%
QC value within limits for K 766.490						Recovery = Not calculated
Mg 285.213†	2579542.0	244.7 mg/L	0.32	244.7 mg/L	0.32	0.13%
QC value within limits for Mg 285.213						Recovery = 97.89%
Mn 257.610†	22268.1	0.9783 mg/L	0.02008	0.9783 mg/L	0.02008	2.05%
QC value within limits for Mn 257.610						Recovery = 97.83%
Mo 202.031†	-265.0	-0.0163 mg/L	0.00088	-0.0163 mg/L	0.00088	5.43%
QC value within limits for Mo 202.031						Recovery = Not calculated
Na 589.592†	371.3	0.0397 mg/L	0.00729	0.0397 mg/L	0.00729	18.37%
QC value within limits for Na 589.592						Recovery = Not calculated
Ni 231.604†	43971.9	1.848 mg/L	0.0076	1.848 mg/L	0.0076	0.41%
QC value within limits for Ni 231.604						Recovery = 92.41%
Pb 220.353†	262.1	0.0897 mg/L	0.00138	0.0897 mg/L	0.00138	1.54%
QC value within limits for Pb 220.353						Recovery = 89.73%
Sb 206.836†	2102.6	1.070 mg/L	0.0240	1.070 mg/L	0.0240	2.25%
QC value within limits for Sb 206.836						Recovery = 89.15%
Se 196.026†	544.2	0.4650 mg/L	0.01041	0.4650 mg/L	0.01041	2.24%
QC value within limits for Se 196.026						Recovery = 93.01%
Sn 189.927†	-2269.0	-0.0510 mg/L	0.00480	-0.0510 mg/L	0.00480	9.40%

No Ag
MJH 4-19-24

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 5.3 0.0003 mg/L 0.00017 0.0003 mg/L 0.00017 58.01%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 714.9 0.2251 mg/L 0.00310 0.2251 mg/L 0.00310 1.38%
 QC value within limits for Tl 351.924 Recovery = 112.57%
 V 290.880† 65024.5 1.023 mg/L 0.0037 1.023 mg/L 0.0037 0.36%
 QC value within limits for V 290.880 Recovery = 102.35%
 Zn 206.200† 35819.7 1.906 mg/L 0.0142 1.906 mg/L 0.0142 0.75%
 QC value within limits for Zn 206.200 Recovery = 95.31%
 Zr 343.823† 667.7 0.0039 mg/L 0.00012 0.0039 mg/L 0.00012 3.17%
 QC Failed. Continue with analysis.
 User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 11:22:13 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
 0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 11

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample):

Autosampler Location: 7

Date Collected: 4/18/2024 11:22:23 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	154703.9	101	%	1.72	101	1.72	1.70%
Y axial	2005565.5	98.4	%	0.71	98.4	0.71	0.72%
Ag 328.068†	81.4	0.0016	mg/L	0.00098	0.0016	0.00098	60.31%
Al 396.153†	-28.0	-0.0075	mg/L	0.01515	-0.0075	0.01515	201.18%
As 188.979†	3.8	0.0033	mg/L	0.00232	0.0033	0.00232	70.79%
B 208.889†	31.4	0.0045	mg/L	0.00085	0.0045	0.00085	18.68%
Ba 233.527†	6.0	0.0018	mg/L	0.00028	0.0018	0.00028	15.76%
Be 313.107†	16.7	0.0001	mg/L	0.00002	0.0001	0.00002	32.97%
Ca 317.933†	0.6	0.0001	mg/L	0.00424	0.0001	0.00424	>999.9%
Cd 228.802†	-2.0	-0.0001	mg/L	0.00008	-0.0001	0.00008	71.60%
Co 228.616†	-12.7	-0.0005	mg/L	0.00025	-0.0005	0.00025	55.41%
Cr 267.716†	-1.6	-0.0000	mg/L	0.00011	-0.0000	0.00011	330.40%
Cu 327.393†	89.7	0.0009	mg/L	0.00036	0.0009	0.00036	41.09%
Fe 238.204†	2.2	0.0006	mg/L	0.00141	0.0006	0.00141	219.35%
K 766.490†	-38.8	-0.0194	mg/L	0.04371	-0.0194	0.04371	224.84%
Mg 285.213†	9.2	0.0009	mg/L	0.00048	0.0009	0.00048	54.89%
Mn 257.610†	-2.7	-0.0001	mg/L	0.00057	-0.0001	0.00057	480.06%
Mo 202.031†	0.4	0.0000	mg/L	0.00019	0.0000	0.00019	708.84%
Na 589.592†	-66.1	-0.0071	mg/L	0.00815	-0.0071	0.00815	115.32%
Ni 231.604†	-3.4	-0.0001	mg/L	0.00025	-0.0001	0.00025	176.94%
Pb 220.353†	9.8	0.0027	mg/L	0.00040	0.0027	0.00040	14.92%
Sb 206.836†	6.7	0.0035	mg/L	0.00293	0.0035	0.00293	83.62%
Se 196.026†	0.7	0.0005	mg/L	0.00254	0.0005	0.00254	564.20%
Sn 189.927†	6.1	0.0014	mg/L	0.00110	0.0014	0.00110	79.17%
Ti 337.279†	12.2	0.0007	mg/L	0.00027	0.0007	0.00027	40.77%
Tl 351.924†	-25.9	-0.0076	mg/L	0.02128	-0.0076	0.02128	278.58%
V 290.880†	23.1	0.0004	mg/L	0.00020	0.0004	0.00020	53.29%
Zn 206.200†	33.5	0.0018	mg/L	0.00012	0.0018	0.00012	6.59%
Zr 343.823†	-2.3	-0.0000	mg/L	0.00005	-0.0000	0.00005	392.46%

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 11:29:44 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Method Loaded

Method Name: ICP3 012424_IEC*

Method Last Saved: 4/18/2024 10:30:25 AM

IEC File: 011224.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

Batch ID: OPTIMA 3

Sequence No.: 7

Autosampler Location: 13

Sample ID: SEQ-LCV@RR

Date Collected: 4/18/2024 11:29:55 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	152288.6	99.3 %	1.39	99.3 %	1.39	1.40%
Y axial	2000728.4	98.2 %	1.31	98.2 %	1.31	1.34%
Ag 328.068†	242.8	0.0049 mg/L	0.00038	0.0049 mg/L	0.00038	7.81%
Al 396.153†	5.7	0.0011 mg/L	0.01182	0.0011 mg/L	0.01182	>999.9%
As 188.979†	12.2	0.0106 mg/L	0.00408	0.0106 mg/L	0.00408	38.38%
B 208.889†	89.4	0.0124 mg/L	0.00053	0.0124 mg/L	0.00053	4.23%
Ba 233.527†	40.3	0.0117 mg/L	0.00078	0.0117 mg/L	0.00078	6.69%
Be 313.107†	2683.0	0.0098 mg/L	0.00013	0.0098 mg/L	0.00013	1.31%
Ca 317.933†	60.4	0.0105 mg/L	0.00276	0.0105 mg/L	0.00276	26.27%

No Pb
MJH 4-19-24

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y radial	153342.1	100.0	%	0.56	100.0	%	0.56	0.56%
Y axial	1991595.0	97.8	%	1.46	97.8	%	1.46	1.50%
Ag 328.068†	-26.0	0.0011	mg/L	0.00100	0.0011	mg/L	0.00100	93.60%
Al 396.153†	389052.9	104.7	mg/L	0.07	104.7	mg/L	0.07	0.07%
QC value	within limits	for Al 396.153	Recovery =	104.69%				
As 188.979†	110494.4	97.00	mg/L	0.304	97.00	mg/L	0.304	0.31%
QC value	within limits	for As 188.979	Recovery =	97.00%				
B 208.889†	-124.5	-0.0143	mg/L	0.00109	-0.0143	mg/L	0.00109	7.59%
Ba 233.527†	347325.0	100.7	mg/L	1.65	100.7	mg/L	1.65	1.64%
QC value	within limits	for Ba 233.527	Recovery =	100.70%				
Be 313.107†	26454498.4	96.77	mg/L	0.251	96.77	mg/L	0.251	0.26%
QC value	within limits	for Be 313.107	Recovery =	96.77%				
Ca 317.933†	581.1	0.0718	mg/L	0.01048	0.0718	mg/L	0.01048	14.60%
Cd 228.802†	2423050.0	83.87	mg/L	0.200	83.87	mg/L	0.200	0.24%
QC value	less than the	lower limit for Cd 228.802	Recovery =	83.87%				
Co 228.616†	2795857.6	100.0	mg/L	0.12	100.0	mg/L	0.12	0.12%
QC value	within limits	for Co 228.616	Recovery =	100.02%				
Cr 267.716†	4587063.8	97.37	mg/L	1.747	97.37	mg/L	1.747	1.79%
QC value	within limits	for Cr 267.716	Recovery =	97.37%				

Cu 327.393†	10612330.0	104.5 mg/L	1.92	104.5 mg/L	1.92	1.84%
QC value within limits for Cu 327.393			Recovery = 104.55%			
Fe 238.204†	344032.6	102.3 mg/L	0.03	102.3 mg/L	0.03	0.03%
QC value within limits for Fe 238.204			Recovery = 102.33%			
K 766.490†	-21.4	-0.0286 mg/L	0.10403	-0.0286 mg/L	0.10403	364.26%
Mg 285.213†	-1742.6	0.0024 mg/L	0.00252	0.0024 mg/L	0.00252	104.81%
Mn 257.610†	2303688.1	101.0 mg/L	0.14	101.0 mg/L	0.14	0.14%
QC value within limits for Mn 257.610			Recovery = 101.02%			
Mo 202.031†	-1099.8	-0.0580 mg/L	0.00147	-0.0580 mg/L	0.00147	2.53%
Na 589.592†	237.4	0.0254 mg/L	0.00557	0.0254 mg/L	0.00557	21.97%
Ni 231.604†	2381171.3	100.00 mg/L	0.284	100.00 mg/L	0.284	0.28%
QC value within limits for Ni 231.604			Recovery = 100.00%			
Pb 220.353†	358933.4	99.44 mg/L	0.319	99.44 mg/L	0.319	0.32%
QC value within limits for Pb 220.353			Recovery = 99.44%			
Sb 206.836†	3102.1	-0.1342 mg/L	0.01850	-0.1342 mg/L	0.01850	13.79%
Se 196.026†	165543.9	102.9 mg/L	0.60	102.9 mg/L	0.60	0.58%
QC value within limits for Se 196.026			Recovery = 102.85%			
Sn 189.927†	2.1	0.0002 mg/L	0.00214	0.0002 mg/L	0.00214	>999.9%
Ti 337.279†	-196.8	-0.0107 mg/L	0.00122	-0.0107 mg/L	0.00122	11.42%
Tl 351.924†	376828.2	111.3 mg/L	0.14	111.3 mg/L	0.14	0.12%
QC value greater than the upper limit for Tl 351.924			Recovery = 111.32%			
V 290.880†	6514522.7	104.5 mg/L	1.89	104.5 mg/L	1.89	1.81%
QC value within limits for V 290.880			Recovery = 104.50%			
Zn 206.200†	1872861.9	99.94 mg/L	0.427	99.94 mg/L	0.427	0.43%
QC value within limits for Zn 206.200			Recovery = 99.94%			
Zr 343.823†	-488.6	-0.0028 mg/L	0.00023	-0.0028 mg/L	0.00023	8.09%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 9

Sample ID: SEQ-HCV2@500/100

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 36

Date Collected: 4/18/2024 11:44:57 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147191.4	95.9 %	0.20	95.9 %	0.20	0.21%
Y axial	1691019.0	83.0 %	0.90	83.0 %	0.90	1.09%
Ag 328.068†	-870.3	-0.0033 mg/L	0.00110	-0.0033 mg/L	0.00110	33.37%
Al 396.153†	1970170.5	529.8 mg/L	10.48	529.8 mg/L	10.48	1.98%
QC value within limits for Al 396.153			Recovery = 105.96%			
As 188.979†	-87.5	-0.0246 mg/L	0.00973	-0.0246 mg/L	0.00973	39.60%
B 208.889†	640797.1	92.76 mg/L	0.133	92.76 mg/L	0.133	0.14%
Ba 233.527†	69.7	-0.0007 mg/L	0.00091	-0.0007 mg/L	0.00091	130.88%
Be 313.107†	305.7	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.37%
Ca 317.933†	2870038.2	498.8 mg/L	1.96	498.8 mg/L	1.96	0.39%
QC value within limits for Ca 317.933			Recovery = 99.77%			
Cd 228.802†	110.6	0.0048 mg/L	0.00017	0.0048 mg/L	0.00017	3.62%
Co 228.616†	145.8	0.0051 mg/L	0.00017	0.0051 mg/L	0.00017	3.45%
Cr 267.716†	-939.5	-0.0016 mg/L	0.00114	-0.0016 mg/L	0.00114	72.48%
Cu 327.393†	9028.3	0.1036 mg/L	0.00349	0.1036 mg/L	0.00349	3.37%
Fe 238.204†	1606589.8	473.7 mg/L	1.92	473.7 mg/L	1.92	0.41%
QC value within limits for Fe 238.204			Recovery = 94.74%			
K 766.490†	418353.5	209.4 mg/L	0.67	209.4 mg/L	0.67	0.32%
QC value within limits for K 766.490			Recovery = 104.68%			
Mg 285.213†	2144579.3	203.7 mg/L	0.64	203.7 mg/L	0.64	0.31%
QC value within limits for Mg 285.213			Recovery = 101.85%			
Mn 257.610†	117.9	0.0136 mg/L	0.00035	0.0136 mg/L	0.00035	2.54%
Mo 202.031†	-1057.7	-0.0456 mg/L	0.00214	-0.0456 mg/L	0.00214	4.69%
Na 589.592†	4791385.9	512.0 mg/L	9.81	512.0 mg/L	9.81	1.92%
QC value within limits for Na 589.592			Recovery = 102.41%			
Ni 231.604†	49.0	0.0021 mg/L	0.00037	0.0021 mg/L	0.00037	18.06%
Pb 220.353†	-106.5	-0.0069 mg/L	0.00098	-0.0069 mg/L	0.00098	14.24%
Sb 206.836†	21.1	-0.0035 mg/L	0.00680	-0.0035 mg/L	0.00680	195.27%
Se 196.026†	-1256.9	-0.1974 mg/L	0.00699	-0.1974 mg/L	0.00699	3.54%

Sn 189.927†	-2291.4	-0.1245 mg/L	0.00928	-0.1245 mg/L	0.00928	7.45%
Ti 337.279†	12.8	0.0007 mg/L	0.00087	0.0007 mg/L	0.00087	124.82%
Tl 351.924†	-102.4	0.0913 mg/L	0.00662	0.0913 mg/L	0.00662	7.25%
V 290.880†	3322.5	0.0078 mg/L	0.00021	0.0078 mg/L	0.00021	2.74%
Zn 206.200†	993.0	-0.0067 mg/L	0.00308	-0.0067 mg/L	0.00308	46.03%
Zr 343.823†	3063.0	0.0178 mg/L	0.00009	0.0178 mg/L	0.00009	0.48%

All analyte(s) passed QC.

User canceled analysis.

S103420

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
B370708-BS1	QC		1			24D0241	
B370708-BLK1	QC		2			24D0241	
S103420-IFA1	QC		3		24C0959	24D0241	
S103420-IFB1	QC		4		24D0240	24D0241	
B370708-MS1	QC		5			24D0241	
B370708-MSD1	QC		6			24D0241	
B370708-SRL1	QC		7			24D0241	
24D0729-03	Cadmium 6010 Dissolved	D	8			24D0241	Field Filtered CAT B - Report to
24D0729-03	Chromium 6010 Dissolved	D	9			24D0241	Field Filtered CAT B - Report to
24D0729-01	Cadmium 6010 Dissolved	A	10			24D0241	Field Filtered CAT B - Report to
24D0729-01	Chromium 6010 Dissolved	A	11			24D0241	Field Filtered CAT B - Report to
24D0729-02	Cadmium 6010 Dissolved	B	12			24D0241	Field Filtered CAT B - Report to
24D0729-02	Chromium 6010 Dissolved	B	13			24D0241	Field Filtered CAT B - Report to
24D0729-04	Cadmium 6010 Dissolved	B	14			24D0241	Field Filtered CAT B - Report to
24D0729-04	Chromium 6010 Dissolved	B	15			24D0241	Field Filtered CAT B - Report to
24D0729-05	Cadmium 6010 Dissolved	B	16			24D0241	Field Filtered CAT B - Report to
24D0729-05	Chromium 6010 Dissolved	B	17			24D0241	Field Filtered CAT B - Report to
24D0729-06	Cadmium 6010 Dissolved	B	18			24D0241	Field Filtered CAT B - Report to
24D0729-06	Chromium 6010 Dissolved	B	19			24D0241	Field Filtered CAT B - Report to
24D0729-07	Cadmium 6010 Dissolved	B	20			24D0241	Field Filtered CAT B - Report to
24D0729-07	Chromium 6010 Dissolved	B	21			24D0241	Field Filtered CAT B - Report to
S103420-CCV1	QC		22		24D0029	24D0241	
S103420-CCB1	QC		23		23J0970	24D0241	
B371416-BLK2	QC		24			24D0241	Added 4/19/2024 by MJH
B371416-BS2	QC		25			24D0241	Added 4/19/2024 by MJH
B371416-BSD2	QC		26			24D0241	Added 4/19/2024 by MJH
B371416-MS2	QC		27			24D0241	Added 4/19/2024 by MJH
B371416-MSD2	QC		28			24D0241	Added 4/19/2024 by MJH
24D0735-04	Copper 6010 Total	A	29			24D0241	CAT B - Report to MDL
24D0735-04	Sodium 6010 Total	A	30			24D0241	CAT B - Report to MDL
24D0735-03	Copper 6010 Total	A	31			24D0241	CAT B - Report to MDL
24D0735-03	Sodium 6010 Total	A	32			24D0241	CAT B - Report to MDL
24D0735-05	Copper 6010 Total	A	33			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103420

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-05	Sodium 6010 Total	A	34			24D0241	CAT B - Report to MDL
24D0735-06	Copper 6010 Total	A	35			24D0241	CAT B - Report to MDL
24D0735-06	Sodium 6010 Total	A	36			24D0241	CAT B - Report to MDL
24D0735-07	Copper 6010 Total	B	37			24D0241	CAT B - Report to MDL
24D0735-07	Sodium 6010 Total	B	38			24D0241	CAT B - Report to MDL
S103420-CCV2	QC		39		24D0029	24D0241	
S103420-CCB2	QC		40		23J0970	24D0241	
24D0735-08	Copper 6010 Total	A	41			24D0241	CAT B - Report to MDL
24D0735-08	Sodium 6010 Total	A	42			24D0241	CAT B - Report to MDL
24D0735-09	Copper 6010 Total	A	43			24D0241	CAT B - Report to MDL
24D0735-09	Sodium 6010 Total	A	44			24D0241	CAT B - Report to MDL
24D0735-10	Copper 6010 Total	A	45			24D0241	CAT B - Report to MDL
24D0735-10	Sodium 6010 Total	A	46			24D0241	CAT B - Report to MDL
24D0735-11	Copper 6010 Total	B	47			24D0241	CAT B - Report to MDL
24D0735-11	Sodium 6010 Total	B	48			24D0241	CAT B - Report to MDL
24D0735-12	Copper 6010 Total	B	49			24D0241	CAT B - Report to MDL
24D0735-12	Sodium 6010 Total	B	50			24D0241	CAT B - Report to MDL
24D0735-13	Copper 6010 Total	B	51			24D0241	CAT B - Report to MDL
24D0735-13	Sodium 6010 Total	B	52			24D0241	CAT B - Report to MDL
24D0735-14	Copper 6010 Total	B	53			24D0241	CAT B - Report to MDL
24D0735-14	Sodium 6010 Total	B	54			24D0241	CAT B - Report to MDL
24D0735-15	Copper 6010 Total	A	55			24D0241	CAT B - Report to MDL
24D0735-15	Sodium 6010 Total	A	56			24D0241	CAT B - Report to MDL
24D0735-15	Potassium 6010 Total	A	57			24D0241	CAT B - Report to MDL
24D0735-16	Copper 6010 Total	B	58			24D0241	CAT B - Report to MDL
24D0735-16	Sodium 6010 Total	B	59			24D0241	CAT B - Report to MDL
24D0735-16	Potassium 6010 Total	B	60			24D0241	CAT B - Report to MDL
24D0735-17	Copper 6010 Total	A	61			24D0241	CAT B - Report to MDL
24D0735-17	Sodium 6010 Total	A	62			24D0241	CAT B - Report to MDL
24D0735-17	Potassium 6010 Total	A	63			24D0241	CAT B - Report to MDL
S103420-CCV3	QC		64		24D0029	24D0241	
S103420-CCB3	QC		65		23J0970	24D0241	
B371351-BLK2	QC		66			24D0241	Added 4/19/2024 by MJH

Samples Loaded By

Date

Data Processed By

Date

S103420

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
B371351-BS2	QC		67			24D0241	Added 4/19/2024 by MJH
B371351-BSD2	QC		68			24D0241	
B371351-MS3	QC		69			24D0241	Added 4/19/2024 by MJH
B371351-MSD3	QC		70			24D0241	Added 4/19/2024 by MJH
24D1470-01	Zinc 6010 Total	J	71			24D0241	CAT B REPORT TO MDL
B371351-MS4	QC		72			24D0241	Added 4/19/2024 by MJH
B371351-MSD4	QC		73			24D0241	Added 4/19/2024 by MJH
24D1470-05	Zinc 6010 Total	J	74			24D0241	CAT B REPORT TO MDL
24D1470-02	Zinc 6010 Total	F	75			24D0241	CAT B REPORT TO MDL
S103420-CCV4	QC		76		24D0029	24D0241	
S103420-CCB4	QC		77		23J0970	24D0241	
24D1470-03	Zinc 6010 Total	F	78			24D0241	CAT B REPORT TO MDL
24D1470-04	Zinc 6010 Total	F	79			24D0241	CAT B REPORT TO MDL
24D1470-06	Sodium 6010 Total	F	80			24D0241	CAT B REPORT TO MDL
24D1470-06	Zinc 6010 Total	F	81			24D0241	CAT B REPORT TO MDL
24D1470-07	Sodium 6010 Total	F	82			24D0241	CAT B REPORT TO MDL
24D1470-07	Zinc 6010 Total	F	83			24D0241	CAT B REPORT TO MDL
24D1470-08	Sodium 6010 Total	F	84			24D0241	CAT B REPORT TO MDL
24D1470-08	Zinc 6010 Total	F	85			24D0241	CAT B REPORT TO MDL
24D1470-09	Sodium 6010 Total	F	86			24D0241	CAT B REPORT TO MDL
24D1470-09	Zinc 6010 Total	F	87			24D0241	CAT B REPORT TO MDL
24D1470-10	Sodium 6010 Total	F	88			24D0241	CAT B REPORT TO MDL
24D1470-10	Zinc 6010 Total	F	89			24D0241	CAT B REPORT TO MDL
24D1470-11	Sodium 6010 Total	F	90			24D0241	CAT B REPORT TO MDL
24D1470-11	Zinc 6010 Total	F	91			24D0241	CAT B REPORT TO MDL
S103420-IFA2	QC		92		24C0959	24D0241	
S103420-IFB2	QC		93		24D0240	24D0241	
S103420-CCV5	QC		94		24D0029	24D0241	
S103420-CCB5	QC		95		23J0970	24D0241	

Samples Loaded By

Date

Data Processed By

Date

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Analysis Begun

Start Time: 4/18/2024 11:51:54 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 11:52:04 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 11:57:27 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 11

Autosampler Location: 7

Sample ID: RINSE

Date Collected: 4/18/2024 11:57:27 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

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Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155555.8	101	%	2.36	101	%	2.36	2.33%
Y axial	2005094.3	98.4	%	1.32	98.4	%	1.32	1.34%
Ag 328.068†	-41.6	-0.0008	mg/L	0.00143	-0.0008	mg/L	0.00143	172.27%
Al 396.153†	-1.3	-0.0003	mg/L	0.00238	-0.0003	mg/L	0.00238	727.30%
As 188.979†	9.5	0.0082	mg/L	0.00338	0.0082	mg/L	0.00338	41.16%
B 208.889†	2379.6	0.3445	mg/L	0.00936	0.3445	mg/L	0.00936	2.72%
Ba 233.527†	7.1	0.0021	mg/L	0.00099	0.0021	mg/L	0.00099	47.91%
Be 313.107†	38.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	18.38%
Ca 317.933†	1.4	0.0002	mg/L	0.00296	0.0002	mg/L	0.00296	>999.9%
Cd 228.802†	-0.6	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	90.40%
Co 228.616†	-11.2	-0.0004	mg/L	0.00005	-0.0004	mg/L	0.00005	12.17%
Cr 267.716†	22.7	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	7.38%
Cu 327.393†	3778.2	0.0372	mg/L	0.00073	0.0372	mg/L	0.00073	1.95%
Fe 238.204†	14.1	0.0042	mg/L	0.00073	0.0042	mg/L	0.00073	17.48%
K 766.490†	74.9	0.0375	mg/L	0.03803	0.0375	mg/L	0.03803	101.40%
Mg 285.213†	10.7	0.0010	mg/L	0.00043	0.0010	mg/L	0.00043	42.33%
Mn 257.610†	2.0	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	275.68%
Mo 202.031†	-3.0	-0.0002	mg/L	0.00042	-0.0002	mg/L	0.00042	196.52%
Na 589.592†	519.8	0.0555	mg/L	0.00508	0.0555	mg/L	0.00508	9.15%
Ni 231.604†	-2.1	-0.0001	mg/L	0.00033	-0.0001	mg/L	0.00033	381.66%
Pb 220.353†	17.6	0.0048	mg/L	0.00203	0.0048	mg/L	0.00203	41.83%
Sb 206.836†	1.7	0.0009	mg/L	0.00284	0.0009	mg/L	0.00284	314.79%

Se 196.026†	2.7	0.0017 mg/L	0.00348	0.0017 mg/L	0.00348	206.43%
Sn 189.927†	7.1	0.0016 mg/L	0.00108	0.0016 mg/L	0.00108	66.47%
Ti 337.279†	-12.8	-0.0007 mg/L	0.00357	-0.0007 mg/L	0.00357	513.40%
Tl 351.924†	-29.8	-0.0085 mg/L	0.00188	-0.0085 mg/L	0.00188	22.17%
V 290.880†	20.1	0.0003 mg/L	0.00025	0.0003 mg/L	0.00025	78.01%
Zn 206.200†	254.9	0.0135 mg/L	0.00084	0.0135 mg/L	0.00084	6.24%
Zr 343.823†	39.2	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	75.92%

Batch ID: OPTIMA 3

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 7

Date Collected: 4/18/2024 12:05:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153087.9	99.8	%	2.87	99.8	%	2.87	2.87%
Y axial	2032539.0	99.8	%	4.63	99.8	%	4.63	4.64%
Ag 328.068†	-51.3	-0.0010	mg/L	0.00014	-0.0010	mg/L	0.00014	13.58%
Al 396.153†	-1.4	-0.0004	mg/L	0.00286	-0.0004	mg/L	0.00286	751.80%
As 188.979†	8.4	0.0072	mg/L	0.00323	0.0072	mg/L	0.00323	44.63%
B 208.889†	1523.6	0.2205	mg/L	0.01284	0.2205	mg/L	0.01284	5.82%
Ba 233.527†	6.5	0.0019	mg/L	0.00151	0.0019	mg/L	0.00151	79.58%
Be 313.107†	36.2	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	33.93%
Ca 317.933†	4.5	0.0008	mg/L	0.00462	0.0008	mg/L	0.00462	584.75%
Cd 228.802†	-1.7	-0.0002	mg/L	0.00034	-0.0002	mg/L	0.00034	225.22%
Co 228.616†	-17.0	-0.0006	mg/L	0.00030	-0.0006	mg/L	0.00030	49.61%
Cr 267.716†	18.7	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	52.00%
Cu 327.393†	3005.3	0.0296	mg/L	0.00155	0.0296	mg/L	0.00155	5.25%
Fe 238.204†	10.4	0.0031	mg/L	0.00245	0.0031	mg/L	0.00245	80.02%
K 766.490†	51.4	0.0257	mg/L	0.02902	0.0257	mg/L	0.02902	112.72%
Mg 285.213†	18.2	0.0017	mg/L	0.00056	0.0017	mg/L	0.00056	32.59%
Mn 257.610†	-0.0	-0.0000	mg/L	0.00040	-0.0000	mg/L	0.00040	>999.9%
Mo 202.031†	0.2	0.0000	mg/L	0.00012	0.0000	mg/L	0.00012	830.45%
Na 589.592†	286.4	0.0306	mg/L	0.00143	0.0306	mg/L	0.00143	4.69%
Ni 231.604†	-8.9	-0.0004	mg/L	0.00048	-0.0004	mg/L	0.00048	127.40%
Pb 220.353†	14.1	0.0039	mg/L	0.00093	0.0039	mg/L	0.00093	23.91%
Sb 206.836†	4.6	0.0024	mg/L	0.00166	0.0024	mg/L	0.00166	69.77%
Se 196.026†	1.6	0.0010	mg/L	0.00539	0.0010	mg/L	0.00539	530.25%
Sn 189.927†	4.9	0.0011	mg/L	0.00064	0.0011	mg/L	0.00064	56.66%
Ti 337.279†	-11.3	-0.0006	mg/L	0.00141	-0.0006	mg/L	0.00141	228.95%
Tl 351.924†	-9.6	-0.0026	mg/L	0.00228	-0.0026	mg/L	0.00228	87.61%
V 290.880†	3.4	0.0001	mg/L	0.00067	0.0001	mg/L	0.00067	>999.9%
Zn 206.200†	174.0	0.0092	mg/L	0.00045	0.0092	mg/L	0.00045	4.87%
Zr 343.823†	48.3	0.0003	mg/L	0.00034	0.0003	mg/L	0.00034	121.87%

Batch ID: OPTIMA 3

Sequence No.: 13

Sample ID: B370708-MS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 38

Date Collected: 4/18/2024 12:12:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370708-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151250.0	98.6	%	1.21	98.6	%	1.21	1.23%
Y axial	1985854.3	97.5	%	1.35	97.5	%	1.35	1.39%
Ag 328.068†	120742.2	2.418	mg/L	0.0302	2.418	mg/L	0.0302	1.25%
Al 396.153†	8017.3	2.057	mg/L	0.0279	2.057	mg/L	0.0279	1.36%
As 188.979†	2266.3	1.977	mg/L	0.0366	1.977	mg/L	0.0366	1.85%
B 208.889†	28838.2	4.076	mg/L	0.0638	4.076	mg/L	0.0638	1.57%

Ba 233.527†	6947.2	2.014 mg/L	0.0243	2.014 mg/L	0.0243	1.21%
Be 313.107†	565529.8	2.069 mg/L	0.0690	2.069 mg/L	0.0690	3.34%
Ca 317.933†	197414.2	34.32 mg/L	1.206	34.32 mg/L	1.206	3.51%
Cd 228.802†	59540.7	2.064 mg/L	0.0104	2.064 mg/L	0.0104	0.51%
Co 228.616†	56151.5	2.009 mg/L	0.0132	2.009 mg/L	0.0132	0.66%
Cr 267.716†	95392.4	2.025 mg/L	0.0104	2.025 mg/L	0.0104	0.51%
Cu 327.393†	402193.3	3.966 mg/L	0.0174	3.966 mg/L	0.0174	0.44%
Fe 238.204†	56804.9	16.77 mg/L	0.178	16.77 mg/L	0.178	1.06%
K 766.490†	37341.3	18.69 mg/L	0.157	18.69 mg/L	0.157	0.84%
Mg 285.213†	215919.9	20.49 mg/L	0.647	20.49 mg/L	0.647	3.16%
Mn 257.610†	52230.6	2.291 mg/L	0.0236	2.291 mg/L	0.0236	1.03%
Mo 202.031†	29171.7	2.033 mg/L	0.0310	2.033 mg/L	0.0310	1.52%
Na 589.592†	392233.0	41.92 mg/L	1.275	41.92 mg/L	1.275	3.04%
Ni 231.604†	48108.2	2.021 mg/L	0.0097	2.021 mg/L	0.0097	0.48%
Pb 220.353†	7196.7	1.995 mg/L	0.0283	1.995 mg/L	0.0283	1.42%
Sb 206.836†	3963.9	2.068 mg/L	0.0334	2.068 mg/L	0.0334	1.61%
Se 196.026†	3377.7	2.115 mg/L	0.0357	2.115 mg/L	0.0357	1.69%
Sn 189.927†	8355.3	1.957 mg/L	0.0309	1.957 mg/L	0.0309	1.58%
Ti 337.279†	37257.4	2.021 mg/L	0.0167	2.021 mg/L	0.0167	0.82%
Tl 351.924†	7287.0	2.161 mg/L	0.0323	2.161 mg/L	0.0323	1.49%
V 290.880†	127799.9	2.096 mg/L	0.0060	2.096 mg/L	0.0060	0.28%
Zn 206.200†	79813.4	4.233 mg/L	0.0088	4.233 mg/L	0.0088	0.21%
Zr 343.823†	404.7	0.0023 mg/L	0.00053	0.0023 mg/L	0.00053	22.53%

Batch ID: OPTIMA 3

Sequence No.: 14

Sample ID: B370708-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 39

Date Collected: 4/18/2024 12:19:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370708-MSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	154789.3	101	%	1.22	101	%	1.21%
Y axial	1962164.1	96.3	%	2.03	96.3	%	2.11%
Ag 328.068†	124236.7	2.488	mg/L	0.0075	2.488	mg/L	0.30%
Al 396.153†	7700.1	1.972	mg/L	0.0131	1.972	mg/L	0.67%
As 188.979†	2258.1	1.969	mg/L	0.0514	1.969	mg/L	2.61%
B 208.889†	28627.0	4.045	mg/L	0.0881	4.045	mg/L	2.18%
Ba 233.527†	6955.9	2.016	mg/L	0.0462	2.016	mg/L	2.29%
Be 313.107†	546294.5	1.998	mg/L	0.0082	1.998	mg/L	0.41%
Ca 317.933†	191960.5	33.37	mg/L	0.057	33.37	mg/L	0.17%
Cd 228.802†	58814.7	2.039	mg/L	0.0050	2.039	mg/L	0.24%
Co 228.616†	55571.5	1.989	mg/L	0.0003	1.989	mg/L	0.02%
Cr 267.716†	94216.1	2.000	mg/L	0.0029	2.000	mg/L	0.15%
Cu 327.393†	397154.5	3.916	mg/L	0.0097	3.916	mg/L	0.25%
Fe 238.204†	54693.3	16.14	mg/L	0.071	16.14	mg/L	0.44%
K 766.490†	36384.8	18.21	mg/L	0.027	18.21	mg/L	0.15%
Mg 285.213†	208094.1	19.75	mg/L	0.070	19.75	mg/L	0.35%
Mn 257.610†	50615.2	2.220	mg/L	0.0050	2.220	mg/L	0.23%
Mo 202.031†	29152.1	2.032	mg/L	0.0460	2.032	mg/L	2.26%
Na 589.592†	380215.0	40.63	mg/L	0.151	40.63	mg/L	0.37%
Ni 231.604†	47696.7	2.004	mg/L	0.0057	2.004	mg/L	0.28%
Pb 220.353†	7211.0	1.999	mg/L	0.0436	1.999	mg/L	2.18%
Sb 206.836†	3952.4	2.063	mg/L	0.0452	2.063	mg/L	2.19%
Se 196.026†	3353.5	2.099	mg/L	0.0469	2.099	mg/L	2.23%
Sn 189.927†	8331.8	1.950	mg/L	0.0429	1.950	mg/L	2.20%
Ti 337.279†	35924.2	1.949	mg/L	0.0033	1.949	mg/L	0.17%
Tl 351.924†	7266.0	2.155	mg/L	0.0475	2.155	mg/L	2.21%
V 290.880†	126191.5	2.070	mg/L	0.0044	2.070	mg/L	0.21%
Zn 206.200†	79079.3	4.194	mg/L	0.0114	4.194	mg/L	0.27%
Zr 343.823†	230.4	0.0013	mg/L	0.00020	0.0013	mg/L	15.18%

Batch ID: OPTIMA 3

Sequence No.: 15

Autosampler Location: 40

Sample ID: B370708-SRL1

Date Collected: 4/18/2024 12:26:34 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: B370708-SRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152283.5	99.3	%	0.63	99.3	%	0.63	0.64%
Y axial	2004673.5	98.4	%	1.73	98.4	%	1.73	1.76%
Ag 328.068†	151.9	0.0030	mg/L	0.00033	0.0030	mg/L	0.00033	10.76%
Al 396.153†	40.5	0.0102	mg/L	0.00899	0.0102	mg/L	0.00899	87.89%
As 188.979†	8.4	0.0073	mg/L	0.00319	0.0073	mg/L	0.00319	43.96%
B 208.889†	910.1	0.1317	mg/L	0.00396	0.1317	mg/L	0.00396	3.01%
Ba 233.527†	18.6	0.0054	mg/L	0.00103	0.0054	mg/L	0.00103	19.15%
Be 313.107†	28.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	13.22%
Ca 317.933†	20110.0	3.496	mg/L	0.0107	3.496	mg/L	0.0107	0.31%
Cd 228.802†	33.5	0.0011	mg/L	0.00024	0.0011	mg/L	0.00024	22.42%
Co 228.616†	-6.4	-0.0002	mg/L	0.00036	-0.0002	mg/L	0.00036	160.74%
Cr 267.716†	20.3	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	2.33%
Cu 327.393†	1748.6	0.0172	mg/L	0.00116	0.0172	mg/L	0.00116	6.73%
Fe 238.204†	231.1	0.0681	mg/L	0.00039	0.0681	mg/L	0.00039	0.57%
K 766.490†	900.9	0.4510	mg/L	0.01351	0.4510	mg/L	0.01351	2.99%
Mg 285.213†	8018.1	0.7597	mg/L	0.00052	0.7597	mg/L	0.00052	0.07%
Mn 257.610†	1184.0	0.0519	mg/L	0.00076	0.0519	mg/L	0.00076	1.46%
Mo 202.031†	17.3	0.0011	mg/L	0.00031	0.0011	mg/L	0.00031	27.82%
Na 589.592†	46257.6	4.943	mg/L	0.0107	4.943	mg/L	0.0107	0.22%
Ni 231.604†	-2.3	-0.0001	mg/L	0.00046	-0.0001	mg/L	0.00046	450.92%
Pb 220.353†	16.2	0.0045	mg/L	0.00041	0.0045	mg/L	0.00041	9.00%
Sb 206.836†	-1.4	-0.0008	mg/L	0.00281	-0.0008	mg/L	0.00281	357.82%
Se 196.026†	3.9	0.0023	mg/L	0.00116	0.0023	mg/L	0.00116	49.87%
Sn 189.927†	-20.3	-0.0031	mg/L	0.00161	-0.0031	mg/L	0.00161	51.97%
Ti 337.279†	11.8	0.0006	mg/L	0.00123	0.0006	mg/L	0.00123	193.11%
Tl 351.924†	-16.1	-0.0047	mg/L	0.00127	-0.0047	mg/L	0.00127	26.91%
V 290.880†	12.0	0.0002	mg/L	0.00042	0.0002	mg/L	0.00042	238.65%
Zn 206.200†	121.4	0.0060	mg/L	0.00019	0.0060	mg/L	0.00019	3.14%
Zr 343.823†	-20.9	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	57.72%

Batch ID: OPTIMA 3

Sequence No.: 16

Sample ID: 24D0729-01

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 41

Date Collected: 4/18/2024 12:34:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155109.5	101	%	0.37	101	%	0.37	0.37%
Y axial	1975857.8	97.0	%	0.70	97.0	%	0.70	0.72%
Ag 328.068†	-56.5	-0.0012	mg/L	0.00058	-0.0012	mg/L	0.00058	49.52%
Al 396.153†	121.0	0.0294	mg/L	0.00763	0.0294	mg/L	0.00763	25.92%
As 188.979†	3.6	0.0031	mg/L	0.00458	0.0031	mg/L	0.00458	147.83%
B 208.889†	875.1	0.1266	mg/L	0.00174	0.1266	mg/L	0.00174	1.37%
Ba 233.527†	82.1	0.0238	mg/L	0.00148	0.0238	mg/L	0.00148	6.23%
Be 313.107†	19.0	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	66.97%
Ca 317.933†	102885.3	17.89	mg/L	0.011	17.89	mg/L	0.011	0.06%
Cd 228.802†	143.2	0.0050	mg/L	0.00015	0.0050	mg/L	0.00015	3.04%
Co 228.616†	9.2	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	17.47%
Cr 267.716†	55.2	0.0011	mg/L	0.00013	0.0011	mg/L	0.00013	11.67%
Cu 327.393†	134.3	0.0013	mg/L	0.00039	0.0013	mg/L	0.00039	29.37%
Fe 238.204†	1127.9	0.3326	mg/L	0.00411	0.3326	mg/L	0.00411	1.24%
K 766.490†	4497.5	2.252	mg/L	0.0485	2.252	mg/L	0.0485	2.15%
Mg 285.213†	40719.7	3.858	mg/L	0.0420	3.858	mg/L	0.0420	1.09%
Mn 257.610†	5982.2	0.2622	mg/L	0.00204	0.2622	mg/L	0.00204	0.78%

Mo 202.031†	21.2	0.0010 mg/L	0.00064	0.0010 mg/L	0.00064	62.20%
Na 589.592†	237230.6	25.35 mg/L	0.012	25.35 mg/L	0.012	0.05%
Ni 231.604†	13.6	0.0005 mg/L	0.00036	0.0005 mg/L	0.00036	66.06%
Pb 220.353†	3.9	0.0013 mg/L	0.00076	0.0013 mg/L	0.00076	60.11%
Sb 206.836†	2.2	0.0008 mg/L	0.00297	0.0008 mg/L	0.00297	352.26%
Se 196.026†	-6.6	-0.0046 mg/L	0.00450	-0.0046 mg/L	0.00450	98.79%
Sn 189.927†	-130.2	-0.0219 mg/L	0.00194	-0.0219 mg/L	0.00194	8.82%
Ti 337.279†	10.1	0.0005 mg/L	0.00218	0.0005 mg/L	0.00218	396.51%
Tl 351.924†	-12.6	-0.0040 mg/L	0.01003	-0.0040 mg/L	0.01003	248.29%
V 290.880†	56.0	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	29.02%
Zn 206.200†	203.2	0.0085 mg/L	0.00008	0.0085 mg/L	0.00008	0.88%
Zr 343.823†	31.9	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	23.26%

Batch ID: OPTIMA 3

Sequence No.: 17

Sample ID: 24D0729-02

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

729-01

MJH 4-19-24

Autosampler Location: 42

Date Collected: 4/18/2024 12:40:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153607.2	100	%	1.54	100	%	1.54	1.53%
Y axial	2007995.2	98.6	%	1.85	98.6	%	1.85	1.88%
Ag 328.068†	-53.2	-0.0011	mg/L	0.00120	-0.0011	mg/L	0.00120	105.24%
Al 396.153†	33.9	0.0062	mg/L	0.00079	0.0062	mg/L	0.00079	12.72%
As 188.979†	1.8	0.0016	mg/L	0.00700	0.0016	mg/L	0.00700	450.45%
B 208.889†	732.6	0.1060	mg/L	0.00378	0.1060	mg/L	0.00378	3.57%
Ba 233.527†	89.5	0.0260	mg/L	0.00129	0.0260	mg/L	0.00129	4.99%
Be 313.107†	7.3	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	331.26%
Ca 317.933†	95855.3	16.67	mg/L	0.029	16.67	mg/L	0.029	0.17%
Cd 228.802†	73.9	0.0026	mg/L	0.00013	0.0026	mg/L	0.00013	5.00%
Co 228.616†	4.5	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	145.55%
Cr 267.716†	32.4	0.0006	mg/L	0.00015	0.0006	mg/L	0.00015	25.64%
Cu 327.393†	-82.3	-0.0008	mg/L	0.00038	-0.0008	mg/L	0.00038	47.02%
Fe 238.204†	698.4	0.2059	mg/L	0.00320	0.2059	mg/L	0.00320	1.55%
K 766.490†	4077.0	2.041	mg/L	0.0691	2.041	mg/L	0.0691	3.39%
Mg 285.213†	40878.4	3.874	mg/L	0.0556	3.874	mg/L	0.0556	1.43%
Mn 257.610†	8747.4	0.3835	mg/L	0.00380	0.3835	mg/L	0.00380	0.99%
Mo 202.031†	15.8	0.0007	mg/L	0.00033	0.0007	mg/L	0.00033	49.39%
Na 589.592†	239483.1	25.59	mg/L	0.029	25.59	mg/L	0.029	0.12%
Ni 231.604†	5.7	0.0002	mg/L	0.00040	0.0002	mg/L	0.00040	204.13%
Pb 220.353†	8.8	0.0026	mg/L	0.00245	0.0026	mg/L	0.00245	94.18%
Sb 206.836†	0.9	0.0001	mg/L	0.00101	0.0001	mg/L	0.00101	740.00%
Se 196.026†	-5.0	-0.0037	mg/L	0.00501	-0.0037	mg/L	0.00501	134.89%
Sn 189.927†	-139.9	-0.0242	mg/L	0.00081	-0.0242	mg/L	0.00081	3.35%
Ti 337.279†	-10.7	-0.0006	mg/L	0.00067	-0.0006	mg/L	0.00067	115.90%
Tl 351.924†	14.9	0.0041	mg/L	0.00187	0.0041	mg/L	0.00187	45.85%
V 290.880†	53.2	0.0007	mg/L	0.00026	0.0007	mg/L	0.00026	39.63%
Zn 206.200†	127.6	0.0045	mg/L	0.00038	0.0045	mg/L	0.00038	8.40%
Zr 343.823†	9.4	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	443.29%

Batch ID: OPTIMA 3

Sequence No.: 18

Sample ID: 24D0729-03

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

729-02

MJH 4-19-24

Autosampler Location: 43

Date Collected: 4/18/2024 12:46:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155183.0	101	%	0.74	101	%	0.74	0.73%

Y axial	2024413.6	99.4 %	0.64	99.4 %	0.64	0.64%
Ag 328.068†	-66.2	-0.0014 mg/L	0.00076	-0.0014 mg/L	0.00076	55.67%
Al 396.153†	47.6	0.0100 mg/L	0.00886	0.0100 mg/L	0.00886	88.64%
As 188.979†	7.3	0.0064 mg/L	0.00098	0.0064 mg/L	0.00098	15.30%
B 208.889†	638.5	0.0924 mg/L	0.00041	0.0924 mg/L	0.00041	0.44%
Ba 233.527†	96.9	0.0281 mg/L	0.00048	0.0281 mg/L	0.00048	1.71%
Be 313.107†	16.0	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	10.83%
Ca 317.933†	94567.2	16.44 mg/L	0.047	16.44 mg/L	0.047	0.29%
Cd 228.802†	57.5	0.0019 mg/L	0.00007	0.0019 mg/L	0.00007	3.50%
Co 228.616†	5.6	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	85.31%
Cr 267.716†	22.8	0.0004 mg/L	0.00032	0.0004 mg/L	0.00032	78.16%
Cu 327.393†	4.9	0.0001 mg/L	0.00024	0.0001 mg/L	0.00024	391.36%
Fe 238.204†	1176.1	0.3468 mg/L	0.00436	0.3468 mg/L	0.00436	1.26%
K 766.490†	3941.3	1.973 mg/L	0.0380	1.973 mg/L	0.0380	1.92%
Mg 285.213†	41041.8	3.889 mg/L	0.0071	3.889 mg/L	0.0071	0.18%
Mn 257.610†	6389.2	0.2801 mg/L	0.00381	0.2801 mg/L	0.00381	1.36%
Mo 202.031†	12.1	0.0004 mg/L	0.00030	0.0004 mg/L	0.00030	69.94%
Na 589.592†	227494.8	24.31 mg/L	0.029	24.31 mg/L	0.029	0.12%
Ni 231.604†	13.6	0.0005 mg/L	0.00016	0.0005 mg/L	0.00016	29.65%
Pb 220.353†	11.6	0.0034 mg/L	0.00170	0.0034 mg/L	0.00170	50.41%
Sb 206.836†	-0.7	-0.0007 mg/L	0.00362	-0.0007 mg/L	0.00362	537.87%
Se 196.026†	-4.2	-0.0030 mg/L	0.00255	-0.0030 mg/L	0.00255	85.79%
Sn 189.927†	-132.4	-0.0224 mg/L	0.00096	-0.0224 mg/L	0.00096	4.27%
Ti 337.279†	22.5	0.0012 mg/L	0.00092	0.0012 mg/L	0.00092	75.41%
Tl 351.924†	-43.3	-0.0131 mg/L	0.01236	-0.0131 mg/L	0.01236	94.55%
V 290.880†	56.8	0.0007 mg/L	0.00039	0.0007 mg/L	0.00039	55.47%
Zn 206.200†	119.5	0.0042 mg/L	0.00017	0.0042 mg/L	0.00017	4.00%
Zr 343.823†	46.2	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	34.61%

Batch ID: OPTIMA 3

Sequence No.: 19

Sample ID: 24D0729-04

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 44

Date Collected: 4/18/2024 12:52:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	157758.5	103 %		0.83	103 %	0.83	0.81%
Y axial	2012683.2	98.8 %		1.48	98.8 %	1.48	1.50%
Ag 328.068†	-59.8	-0.0012 mg/L		0.00058	-0.0012 mg/L	0.00058	47.40%
Al 396.153†	87.4	0.0202 mg/L		0.00555	0.0202 mg/L	0.00555	27.42%
As 188.979†	7.6	0.0067 mg/L		0.00370	0.0067 mg/L	0.00370	55.54%
B 208.889†	636.8	0.0922 mg/L		0.00143	0.0922 mg/L	0.00143	1.56%
Ba 233.527†	75.3	0.0218 mg/L		0.00073	0.0218 mg/L	0.00073	3.36%
Be 313.107†	15.2	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	30.10%
Ca 317.933†	110063.0	19.14 mg/L		0.017	19.14 mg/L	0.017	0.09%
Cd 228.802†	457.5	0.0159 mg/L		0.00033	0.0159 mg/L	0.00033	2.06%
Co 228.616†	-12.3	-0.0004 mg/L		0.00034	-0.0004 mg/L	0.00034	78.63%
Cr 267.716†	82.7	0.0017 mg/L		0.00016	0.0017 mg/L	0.00016	9.35%
Cu 327.393†	108.7	0.0011 mg/L		0.00046	0.0011 mg/L	0.00046	42.83%
Fe 238.204†	676.9	0.1996 mg/L		0.00078	0.1996 mg/L	0.00078	0.39%
K 766.490†	4703.7	2.355 mg/L		0.0616	2.355 mg/L	0.0616	2.62%
Mg 285.213†	40417.9	3.829 mg/L		0.0633	3.829 mg/L	0.0633	1.65%
Mn 257.610†	4428.8	0.1941 mg/L		0.00381	0.1941 mg/L	0.00381	1.96%
Mo 202.031†	9.6	0.0002 mg/L		0.00038	0.0002 mg/L	0.00038	216.27%
Na 589.592†	229432.4	24.52 mg/L		0.044	24.52 mg/L	0.044	0.18%
Ni 231.604†	17.6	0.0007 mg/L		0.00016	0.0007 mg/L	0.00016	21.74%
Pb 220.353†	7.8	0.0024 mg/L		0.00253	0.0024 mg/L	0.00253	106.62%
Sb 206.836†	-1.2	-0.0010 mg/L		0.00260	-0.0010 mg/L	0.00260	270.98%
Se 196.026†	-10.2	-0.0069 mg/L		0.00567	-0.0069 mg/L	0.00567	81.91%
Sn 189.927†	-137.2	-0.0235 mg/L		0.00293	-0.0235 mg/L	0.00293	12.46%
Ti 337.279†	20.0	0.0011 mg/L		0.00336	0.0011 mg/L	0.00336	310.65%
Tl 351.924†	-22.1	-0.0069 mg/L		0.02022	-0.0069 mg/L	0.02022	293.16%
V 290.880†	60.4	0.0008 mg/L		0.00024	0.0008 mg/L	0.00024	31.23%
Zn 206.200†	206.2	0.0088 mg/L		0.00031	0.0088 mg/L	0.00031	3.57%

Zr 343.823† 57.1 0.0003 mg/L 0.00021 0.0003 mg/L 0.00021 62.67%

Batch ID: OPTIMA 3

Sequence No.: 20

Sample ID: 24D0729-05

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 45

Date Collected: 4/18/2024 12:58:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153449.3	100	%	1.33	100	%	1.33	1.33%
Y axial	1996741.6	98.0	%	0.81	98.0	%	0.81	0.82%
Ag 328.068†	-73.4	-0.0015	mg/L	0.00079	-0.0015	mg/L	0.00079	52.57%
Al 396.153†	94.1	0.0219	mg/L	0.00582	0.0219	mg/L	0.00582	26.61%
As 188.979†	6.5	0.0057	mg/L	0.00043	0.0057	mg/L	0.00043	7.57%
B 208.889†	606.3	0.0877	mg/L	0.00160	0.0877	mg/L	0.00160	1.82%
Ba 233.527†	73.3	0.0212	mg/L	0.00029	0.0212	mg/L	0.00029	1.38%
Be 313.107†	15.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	64.87%
Ca 317.933†	115753.7	20.12	mg/L	0.134	20.12	mg/L	0.134	0.67%
Cd 228.802†	516.3	0.0180	mg/L	0.00023	0.0180	mg/L	0.00023	1.25%
Co 228.616†	0.6	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	316.90%
Cr 267.716†	135.1	0.0028	mg/L	0.00008	0.0028	mg/L	0.00008	2.93%
Cu 327.393†	61.6	0.0006	mg/L	0.00039	0.0006	mg/L	0.00039	63.26%
Fe 238.204†	623.5	0.1838	mg/L	0.00119	0.1838	mg/L	0.00119	0.65%
K 766.490†	5107.5	2.557	mg/L	0.0743	2.557	mg/L	0.0743	2.90%
Mg 285.213†	42337.1	4.011	mg/L	0.0475	4.011	mg/L	0.0475	1.19%
Mn 257.610†	4392.2	0.1925	mg/L	0.00279	0.1925	mg/L	0.00279	1.45%
Mo 202.031†	11.2	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	45.01%
Na 589.592†	232542.8	24.85	mg/L	0.089	24.85	mg/L	0.089	0.36%
Ni 231.604†	7.1	0.0003	mg/L	0.00028	0.0003	mg/L	0.00028	103.08%
Pb 220.353†	6.7	0.0021	mg/L	0.00298	0.0021	mg/L	0.00298	142.56%
Sb 206.836†	-4.0	-0.0024	mg/L	0.00374	-0.0024	mg/L	0.00374	154.97%
Se 196.026†	-9.1	-0.0063	mg/L	0.00200	-0.0063	mg/L	0.00200	31.59%
Sn 189.927†	-145.6	-0.0251	mg/L	0.00047	-0.0251	mg/L	0.00047	1.88%
Ti 337.279†	14.3	0.0008	mg/L	0.00172	0.0008	mg/L	0.00172	222.45%
Tl 351.924†	-15.9	-0.0051	mg/L	0.00129	-0.0051	mg/L	0.00129	25.23%
V 290.880†	75.2	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	7.05%
Zn 206.200†	223.8	0.0097	mg/L	0.00040	0.0097	mg/L	0.00040	4.12%
Zr 343.823†	6.7	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	296.24%

Batch ID: OPTIMA 3

Sequence No.: 21

Sample ID: 24D0729-06

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 46

Date Collected: 4/18/2024 1:04:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154571.6	101	%	2.47	101	%	2.47	2.45%
Y axial	2030826.0	99.7	%	1.71	99.7	%	1.71	1.71%
Ag 328.068†	-71.8	-0.0015	mg/L	0.00054	-0.0015	mg/L	0.00054	37.02%
Al 396.153†	103.9	0.0245	mg/L	0.00720	0.0245	mg/L	0.00720	29.31%
As 188.979†	4.4	0.0038	mg/L	0.00201	0.0038	mg/L	0.00201	52.55%
B 208.889†	571.2	0.0827	mg/L	0.00128	0.0827	mg/L	0.00128	1.55%
Ba 233.527†	63.9	0.0185	mg/L	0.00047	0.0185	mg/L	0.00047	2.55%
Be 313.107†	18.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	32.29%
Ca 317.933†	114422.9	19.89	mg/L	0.057	19.89	mg/L	0.057	0.28%
Cd 228.802†	25.6	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	11.11%
Co 228.616†	0.4	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	607.33%
Cr 267.716†	29.6	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	15.69%

Cu 327.393†	45.0	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	49.82%
Fe 238.204†	827.2	0.2439 mg/L	0.00576	0.2439 mg/L	0.00576	2.36%
K 766.490†	4812.0	2.409 mg/L	0.0767	2.409 mg/L	0.0767	3.18%
Mg 285.213†	42758.2	4.051 mg/L	0.1250	4.051 mg/L	0.1250	3.09%
Mn 257.610†	3968.0	0.1739 mg/L	0.00643	0.1739 mg/L	0.00643	3.70%
Mo 202.031†	9.3	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	117.60%
Na 589.592†	217336.2	23.23 mg/L	0.076	23.23 mg/L	0.076	0.33%
Ni 231.604†	12.4	0.0005 mg/L	0.00061	0.0005 mg/L	0.00061	121.76%
Pb 220.353†	8.7	0.0026 mg/L	0.00043	0.0026 mg/L	0.00043	16.42%
Sb 206.836†	1.6	0.0006 mg/L	0.00280	0.0006 mg/L	0.00280	503.52%
Se 196.026†	-17.5	-0.0114 mg/L	0.00454	-0.0114 mg/L	0.00454	39.67%
Sn 189.927†	-141.9	-0.0242 mg/L	0.00128	-0.0242 mg/L	0.00128	5.30%
Ti 337.279†	5.5	0.0003 mg/L	0.00117	0.0003 mg/L	0.00117	393.48%
Tl 351.924†	-24.6	-0.0077 mg/L	0.01073	-0.0077 mg/L	0.01073	139.72%
V 290.880†	53.1	0.0006 mg/L	0.00046	0.0006 mg/L	0.00046	71.59%
Zn 206.200†	270.1	0.0122 mg/L	0.00048	0.0122 mg/L	0.00048	3.93%
Zr 343.823†	42.1	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015	59.92%

Batch ID: OPTIMA 3

Sequence No.: 22

Sample ID: 24D0729-07

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 47

Date Collected: 4/18/2024 1:10:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154380.3	101	%	1.70	101	%	1.70	1.69%
Y axial	2009308.4	98.6	%	1.12	98.6	%	1.12	1.13%
Ag 328.068†	-58.3	-0.0012	mg/L	0.00091	-0.0012	mg/L	0.00091	75.67%
Al 396.153†	129.9	0.0315	mg/L	0.02086	0.0315	mg/L	0.02086	66.11%
As 188.979†	8.2	0.0072	mg/L	0.00242	0.0072	mg/L	0.00242	33.77%
B 208.889†	540.4	0.0782	mg/L	0.00188	0.0782	mg/L	0.00188	2.41%
Ba 233.527†	76.0	0.0220	mg/L	0.00083	0.0220	mg/L	0.00083	3.75%
Be 313.107†	7.2	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	322.33%
Ca 317.933†	114371.0	19.88	mg/L	0.040	19.88	mg/L	0.040	0.20%
Cd 228.802†	510.7	0.0178	mg/L	0.00041	0.0178	mg/L	0.00041	2.32%
Co 228.616†	-0.4	-0.0000	mg/L	0.00014	-0.0000	mg/L	0.00014	>999.9%
Cr 267.716†	117.7	0.0024	mg/L	0.00024	0.0024	mg/L	0.00024	9.71%
Cu 327.393†	-39.0	-0.0004	mg/L	0.00057	-0.0004	mg/L	0.00057	150.45%
Fe 238.204†	625.6	0.1845	mg/L	0.00322	0.1845	mg/L	0.00322	1.74%
K 766.490†	5004.5	2.505	mg/L	0.0196	2.505	mg/L	0.0196	0.78%
Mg 285.213†	41673.4	3.948	mg/L	0.0135	3.948	mg/L	0.0135	0.34%
Mn 257.610†	4364.3	0.1913	mg/L	0.00370	0.1913	mg/L	0.00370	1.93%
Mo 202.031†	9.0	0.0001	mg/L	0.00052	0.0001	mg/L	0.00052	465.45%
Na 589.592†	231306.5	24.72	mg/L	0.078	24.72	mg/L	0.078	0.32%
Ni 231.604†	21.8	0.0009	mg/L	0.00021	0.0009	mg/L	0.00021	23.50%
Pb 220.353†	5.5	0.0018	mg/L	0.00082	0.0018	mg/L	0.00082	47.09%
Sb 206.836†	-0.5	-0.0006	mg/L	0.00094	-0.0006	mg/L	0.00094	154.49%
Se 196.026†	-5.9	-0.0043	mg/L	0.00256	-0.0043	mg/L	0.00256	58.83%
Sn 189.927†	-136.2	-0.0231	mg/L	0.00092	-0.0231	mg/L	0.00092	3.97%
Ti 337.279†	7.8	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	30.36%
Tl 351.924†	-26.6	-0.0082	mg/L	0.01660	-0.0082	mg/L	0.01660	201.24%
V 290.880†	55.4	0.0007	mg/L	0.00033	0.0007	mg/L	0.00033	47.84%
Zn 206.200†	205.8	0.0087	mg/L	0.00015	0.0087	mg/L	0.00015	1.74%
Zr 343.823†	11.5	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	94.26%

Batch ID: OPTIMA 3

Sequence No.: 23

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

User canceled analysis.

Autosampler Location: 11

Date Collected: 4/18/2024 1:16:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Analysis Begun

Start Time: 4/18/2024 2:28:15 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 2:28:16 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 2:29:29 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 23

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23IJ0975

Date Collected: 4/18/2024 2:29:30 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

=====

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151991.4	99.1	%	0.33	99.1	%	0.33	0.34%
Y axial	1931905.7	94.8	%	0.58	94.8	%	0.58	0.62%
Ag 328.068†	125695.1	2.516	mg/L	0.0911	2.516	mg/L	0.0911	3.62%
QC value within limits for Ag 328.068				Recovery = 100.66%				
Al 396.153†	38510.7	10.12	mg/L	0.001	10.12	mg/L	0.001	0.01%
QC value within limits for Al 396.153				Recovery = 101.21%				
As 188.979†	5697.1	4.965	mg/L	0.0339	4.965	mg/L	0.0339	0.68%
QC value within limits for As 188.979				Recovery = 99.29%				
B 208.889†	33971.9	4.673	mg/L	0.0343	4.673	mg/L	0.0343	0.73%
QC value within limits for B 208.889				Recovery = 93.46%				
Ba 233.527†	17743.9	5.145	mg/L	0.0412	5.145	mg/L	0.0412	0.80%
QC value within limits for Ba 233.527				Recovery = 102.89%				
Be 313.107†	1342401.4	4.909	mg/L	0.0760	4.909	mg/L	0.0760	1.55%
QC value within limits for Be 313.107				Recovery = 98.19%				
Ca 317.933†	58125.9	10.10	mg/L	0.016	10.10	mg/L	0.016	0.15%
QC value within limits for Ca 317.933				Recovery = 101.04%				
Cd 228.802†	144509.9	5.009	mg/L	0.0093	5.009	mg/L	0.0093	0.19%
QC value within limits for Cd 228.802				Recovery = 100.17%				
Co 228.616†	141019.9	5.047	mg/L	0.0114	5.047	mg/L	0.0114	0.23%
QC value within limits for Co 228.616				Recovery = 100.93%				
Cr 267.716†	236947.7	5.029	mg/L	0.0115	5.029	mg/L	0.0115	0.23%
QC value within limits for Cr 267.716				Recovery = 100.59%				

Cu 327.393†	509746.0	5.030 mg/L	0.0139	5.030 mg/L	0.0139	0.28%
QC value within limits for Cu 327.393		Recovery = 100.60%				
Fe 238.204†	16923.0	5.035 mg/L	0.0051	5.035 mg/L	0.0051	0.10%
QC value within limits for Fe 238.204		Recovery = 100.69%				
K 766.490†	20434.9	10.23 mg/L	0.020	10.23 mg/L	0.020	0.19%
QC value within limits for K 766.490		Recovery = 102.29%				
Mg 285.213†	107821.0	10.23 mg/L	0.014	10.23 mg/L	0.014	0.14%
QC value within limits for Mg 285.213		Recovery = 102.34%				
Mn 257.610†	116093.6	5.091 mg/L	0.0086	5.091 mg/L	0.0086	0.17%
QC value within limits for Mn 257.610		Recovery = 101.82%				
Mo 202.031†	72349.5	5.042 mg/L	0.0196	5.042 mg/L	0.0196	0.39%
QC value within limits for Mo 202.031		Recovery = 100.83%				
Na 589.592†	93649.9	10.01 mg/L	0.123	10.01 mg/L	0.123	1.23%
QC value within limits for Na 589.592		Recovery = 100.08%				
Ni 231.604†	120850.3	5.077 mg/L	0.0167	5.077 mg/L	0.0167	0.33%
QC value within limits for Ni 231.604		Recovery = 101.54%				
Pb 220.353†	18240.1	5.061 mg/L	0.0324	5.061 mg/L	0.0324	0.64%
QC value within limits for Pb 220.353		Recovery = 101.22%				
Sb 206.836†	9618.4	5.024 mg/L	0.0371	5.024 mg/L	0.0371	0.74%
QC value within limits for Sb 206.836		Recovery = 100.49%				
Se 196.026†	8027.5	4.987 mg/L	0.0317	4.987 mg/L	0.0317	0.64%
QC value within limits for Se 196.026		Recovery = 99.75%				
Sn 189.927†	22021.4	5.072 mg/L	0.0343	5.072 mg/L	0.0343	0.68%
QC value within limits for Sn 189.927		Recovery = 101.43%				
Ti 337.279†	92953.7	5.043 mg/L	0.0072	5.043 mg/L	0.0072	0.14%
QC value within limits for Ti 337.279		Recovery = 100.85%				
Tl 351.924†	8717.9	2.596 mg/L	0.0195	2.596 mg/L	0.0195	0.75%
QC value within limits for Tl 351.924		Recovery = 103.85%				
V 290.880†	314199.3	5.158 mg/L	0.0129	5.158 mg/L	0.0129	0.25%
QC value within limits for V 290.880		Recovery = 103.17%				
Zn 206.200†	95647.1	5.104 mg/L	0.0144	5.104 mg/L	0.0144	0.28%
QC value within limits for Zn 206.200		Recovery = 102.07%				
Zr 343.823†	870892.6	5.050 mg/L	0.0138	5.050 mg/L	0.0138	0.27%
All analyte(s) passed QC.						

Batch ID: OPTIMA 3

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 2:36:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

RR MJH 4-19-24

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	148880.2	97.1 %		1.20	97.1 %	1.20	1.24%
Y axial	2028920.4	99.6 %		1.03	99.6 %	1.03	1.04%
Ag 328.068†	2901.0	0.0581 mg/L		0.00083	0.0581 mg/L	0.00083	1.43%
QC value greater than the upper limit for Ag 328.068		Recovery = Not calculated					
Al 396.153†	-49.3	-0.0133 mg/L		0.00396	-0.0133 mg/L	0.00396	29.78%
QC value within limits for Al 396.153		Recovery = Not calculated					
As 188.979†	7.5	0.0066 mg/L		0.00267	0.0066 mg/L	0.00267	40.59%
QC value within limits for As 188.979		Recovery = Not calculated					
B 208.889†	185.0	0.0268 mg/L		0.00140	0.0268 mg/L	0.00140	5.21%
QC value within limits for B 208.889		Recovery = Not calculated					
Ba 233.527†	4.3	0.0012 mg/L		0.00077	0.0012 mg/L	0.00077	62.26%
QC value within limits for Ba 233.527		Recovery = Not calculated					
Be 313.107†	17.4	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	49.35%
QC value within limits for Be 313.107		Recovery = Not calculated					
Ca 317.933†	17.7	0.0031 mg/L		0.00281	0.0031 mg/L	0.00281	91.36%
QC value within limits for Ca 317.933		Recovery = Not calculated					
Cd 228.802†	-0.7	-0.0001 mg/L		0.00012	-0.0001 mg/L	0.00012	111.72%
QC value within limits for Cd 228.802		Recovery = Not calculated					
Co 228.616†	-9.7	-0.0003 mg/L		0.00005	-0.0003 mg/L	0.00005	13.80%
QC value within limits for Co 228.616		Recovery = Not calculated					
Cr 267.716†	0.6	0.0000 mg/L		0.00022	0.0000 mg/L	0.00022	>999.9%
QC value within limits for Cr 267.716		Recovery = Not calculated					

Method: ICP3 012424_IEC*

Page 3

Date: 4/18/2024 2:47:52 PM

Cu 327.393†	1003.8	0.0099 mg/L	0.00021	0.0099 mg/L	0.00021	2.10%
QC value within limits for Cu 327.393			Recovery = Not calculated			
Fe 238.204†	2.0	0.0006 mg/L	0.00102	0.0006 mg/L	0.00102	172.72%
QC value within limits for Fe 238.204			Recovery = Not calculated			
K 766.490†	-7.7	-0.0039 mg/L	0.01270	-0.0039 mg/L	0.01270	329.71%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	12.8	0.0012 mg/L	0.00097	0.0012 mg/L	0.00097	79.61%
QC value within limits for Mg 285.213			Recovery = Not calculated			
Mn 257.610†	-10.9	-0.0005 mg/L	0.00047	-0.0005 mg/L	0.00047	97.99%
QC value within limits for Mn 257.610			Recovery = Not calculated			
Mo 202.031†	7.2	0.0005 mg/L	0.00040	0.0005 mg/L	0.00040	79.24%
QC value within limits for Mo 202.031			Recovery = Not calculated			
Na 589.592†	-49.6	-0.0053 mg/L	0.00903	-0.0053 mg/L	0.00903	170.44%
QC value within limits for Na 589.592			Recovery = Not calculated			
Ni 231.604†	-5.4	-0.0002 mg/L	0.00017	-0.0002 mg/L	0.00017	77.60%
QC value within limits for Ni 231.604			Recovery = Not calculated			
Pb 220.353†	8.1	0.0023 mg/L	0.00331	0.0023 mg/L	0.00331	146.79%
QC value within limits for Pb 220.353			Recovery = Not calculated			
Sb 206.836†	1.4	0.0008 mg/L	0.00305	0.0008 mg/L	0.00305	405.12%
QC value within limits for Sb 206.836			Recovery = Not calculated			
Se 196.026†	-4.3	-0.0027 mg/L	0.00271	-0.0027 mg/L	0.00271	100.38%
QC value within limits for Se 196.026			Recovery = Not calculated			
Sn 189.927†	5.4	0.0012 mg/L	0.00011	0.0012 mg/L	0.00011	8.55%
QC value within limits for Sn 189.927			Recovery = Not calculated			
Ti 337.279†	8.9	0.0005 mg/L	0.00114	0.0005 mg/L	0.00114	235.96%
QC value within limits for Ti 337.279			Recovery = Not calculated			
Tl 351.924†	-7.1	-0.0021 mg/L	0.00485	-0.0021 mg/L	0.00485	232.80%
QC value within limits for Tl 351.924			Recovery = Not calculated			
V 290.880†	-24.3	-0.0004 mg/L	0.00024	-0.0004 mg/L	0.00024	62.81%
QC value within limits for V 290.880			Recovery = Not calculated			
Zn 206.200†	57.4	0.0030 mg/L	0.00038	0.0030 mg/L	0.00038	12.59%
QC value within limits for Zn 206.200			Recovery = Not calculated			
Zr 343.823†	21.3	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	50.22%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 25

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 48

Date Collected: 4/18/2024 2:44:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	151788.8	98.9 %		2.05	98.9 %	2.05	2.07%
Y axial	2000945.9	98.2 %		1.26	98.2 %	1.26	1.29%
Ag 328.068†	835.6	0.0167 mg/L		0.00054	0.0167 mg/L	0.00054	3.24%
Al 396.153†	1.5	0.0004 mg/L		0.01499	0.0004 mg/L	0.01499	>999.9%
As 188.979†	3.8	0.0033 mg/L		0.00314	0.0033 mg/L	0.00314	93.81%
B 208.889†	136.7	0.0198 mg/L		0.00090	0.0198 mg/L	0.00090	4.56%
Ba 233.527†	12.0	0.0035 mg/L		0.00309	0.0035 mg/L	0.00309	88.66%
Be 313.107†	4.0	0.0000 mg/L		0.00006	0.0000 mg/L	0.00006	370.84%
Ca 317.933†	92.3	0.0160 mg/L		0.00355	0.0160 mg/L	0.00355	22.10%
Cd 228.802†	-0.4	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	66.93%
Co 228.616†	-1.6	-0.0001 mg/L		0.00043	-0.0001 mg/L	0.00043	854.19%
Cr 267.716†	4.0	0.0001 mg/L		0.00019	0.0001 mg/L	0.00019	229.10%
Cu 327.393†	1449.6	0.0143 mg/L		0.00030	0.0143 mg/L	0.00030	2.10%
Fe 238.204†	8.7	0.0026 mg/L		0.00023	0.0026 mg/L	0.00023	8.97%
K 766.490†	84.4	0.0423 mg/L		0.04282	0.0423 mg/L	0.04282	101.33%
Mg 285.213†	27.5	0.0026 mg/L		0.00070	0.0026 mg/L	0.00070	26.84%
Mn 257.610†	-1.8	-0.0001 mg/L		0.00032	-0.0001 mg/L	0.00032	415.28%
Mo 202.031†	10.3	0.0007 mg/L		0.00011	0.0007 mg/L	0.00011	15.71%
Na 589.592†	93.9	0.0100 mg/L		0.00890	0.0100 mg/L	0.00890	88.74%
Ni 231.604†	7.2	0.0003 mg/L		0.00010	0.0003 mg/L	0.00010	31.47%
Pb 220.353†	2.1	0.0006 mg/L		0.00154	0.0006 mg/L	0.00154	269.43%
Sb 206.836†	5.3	0.0028 mg/L		0.00310	0.0028 mg/L	0.00310	112.01%

Method: ICP3 012424_IEC*

Page 4

Date: 4/18/2024 2:57:33 PM

Se 196.026†	1.9	0.0012 mg/L	0.00380	0.0012 mg/L	0.00380	318.93%
Sn 189.927†	10.3	0.0024 mg/L	0.00054	0.0024 mg/L	0.00054	22.67%
Ti 337.279†	-20.8	-0.0011 mg/L	0.00179	-0.0011 mg/L	0.00179	158.26%
Tl 351.924†	-3.8	-0.0011 mg/L	0.00202	-0.0011 mg/L	0.00202	182.87%
V 290.880†	-9.9	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	97.98%
Zn 206.200†	86.2	0.0046 mg/L	0.00029	0.0046 mg/L	0.00029	6.43%
Zr 343.823†	45.9	0.0003 mg/L	0.00022	0.0003 mg/L	0.00022	83.47%

Batch ID: OPTIMA 3

Sequence No.: 26

Sample ID: B371416-BS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 49

Date Collected: 4/18/2024 2:51:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152048.3	99.1	%	0.38	99.1	%	0.38	0.38%
Y axial	2014651.4	98.9	%	1.40	98.9	%	1.40	1.42%
Ag 328.068†	32116.9	0.6431	mg/L	0.01404	0.6431	mg/L	0.01404	2.18%
Al 396.153†	1965.2	0.5050	mg/L	0.00153	0.5050	mg/L	0.00153	0.30%
As 188.979†	540.3	0.4714	mg/L	0.01011	0.4714	mg/L	0.01011	2.14%
B 208.889†	6636.0	0.9365	mg/L	0.01882	0.9365	mg/L	0.01882	2.01%
Ba 233.527†	1716.2	0.4974	mg/L	0.00845	0.4974	mg/L	0.00845	1.70%
Be 313.107†	139090.0	0.5088	mg/L	0.00059	0.5088	mg/L	0.00059	0.12%
Ca 317.933†	23307.7	4.051	mg/L	0.0299	4.051	mg/L	0.0299	0.74%
Cd 228.802†	14427.1	0.5003	mg/L	0.00470	0.5003	mg/L	0.00470	0.94%
Co 228.616†	14084.4	0.5040	mg/L	0.00271	0.5040	mg/L	0.00271	0.54%
Cr 267.716†	23700.2	0.5032	mg/L	0.00551	0.5032	mg/L	0.00551	1.10%
Cu 327.393†	101478.0	1.001	mg/L	0.0078	1.001	mg/L	0.0078	0.78%
Fe 238.204†	13927.4	4.111	mg/L	0.0312	4.111	mg/L	0.0312	0.76%
K 766.490†	8234.6	4.122	mg/L	0.0438	4.122	mg/L	0.0438	1.06%
Mg 285.213†	43170.2	4.098	mg/L	0.0173	4.098	mg/L	0.0173	0.42%
Mn 257.610†	11580.6	0.5079	mg/L	0.00353	0.5079	mg/L	0.00353	0.70%
Mo 202.031†	7122.1	0.4965	mg/L	0.00360	0.4965	mg/L	0.00360	0.72%
Na 589.592†	38213.7	4.084	mg/L	0.0150	4.084	mg/L	0.0150	0.37%
Ni 231.604†	11973.3	0.5030	mg/L	0.00414	0.5030	mg/L	0.00414	0.82%
Pb 220.353†	1812.4	0.5025	mg/L	0.00850	0.5025	mg/L	0.00850	1.69%
Sb 206.836†	958.4	0.5002	mg/L	0.00834	0.5002	mg/L	0.00834	1.67%
Se 196.026†	784.7	0.4917	mg/L	0.00751	0.4917	mg/L	0.00751	1.53%
Sn 189.927†	2062.4	0.4810	mg/L	0.00970	0.4810	mg/L	0.00970	2.02%
Ti 337.279†	9248.9	0.5017	mg/L	0.00354	0.5017	mg/L	0.00354	0.70%
Tl 351.924†	1698.7	0.5040	mg/L	0.01677	0.5040	mg/L	0.01677	3.33%
V 290.880†	31214.5	0.5120	mg/L	0.00256	0.5120	mg/L	0.00256	0.50%
Zn 206.200†	19206.1	1.019	mg/L	0.0040	1.019	mg/L	0.0040	0.39%
Zr 343.823†	169.5	0.0010	mg/L	0.00009	0.0010	mg/L	0.00009	8.99%

User canceled analysis.

Analysis Begun

Start Time: 4/18/2024 2:57:23 PM

Originator: Optima8300

Spectrometer: Optima 8300 , S/N 078S1703073

Plasma On Time: 4/18/2024 8:09:32 AM

Technique: ICP Continuous

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Autosampler Location: 1

Date Collected: 4/18/2024 2:57:33 PM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	150927.8	98.4 %		1.64	98.4 %		1.64	1.66%
Y axial	2018317.1	99.1 %		2.06	99.1 %		2.06	2.08%
Ag 328.068†	18.7	0.0004 mg/L		0.00042	0.0004 mg/L		0.00042	111.18%
QC value within limits for Ag 328.068			Recovery = Not calculated					
Al 396.153†	-46.8	-0.0126 mg/L		0.00786	-0.0126 mg/L		0.00786	62.41%
QC value within limits for Al 396.153			Recovery = Not calculated					
As 188.979†	5.2	0.0045 mg/L		0.00458	0.0045 mg/L		0.00458	101.55%
QC value within limits for As 188.979			Recovery = Not calculated					
B 208.889†	121.2	0.0175 mg/L		0.00063	0.0175 mg/L		0.00063	3.58%
QC value within limits for B 208.889			Recovery = Not calculated					
Ba 233.527†	-2.6	-0.0007 mg/L		0.00040	-0.0007 mg/L		0.00040	53.48%
QC value within limits for Ba 233.527			Recovery = Not calculated					
Be 313.107†	4.4	0.0000 mg/L		0.00003	0.0000 mg/L		0.00003	151.20%
QC value within limits for Be 313.107			Recovery = Not calculated					
Ca 317.933†	-5.9	-0.0010 mg/L		0.00343	-0.0010 mg/L		0.00343	335.07%
QC value within limits for Ca 317.933			Recovery = Not calculated					
Cd 228.802†	-2.4	-0.0001 mg/L		0.00011	-0.0001 mg/L		0.00011	77.26%
QC value within limits for Cd 228.802			Recovery = Not calculated					
Co 228.616†	-4.7	-0.0002 mg/L		0.00013	-0.0002 mg/L		0.00013	79.08%
QC value within limits for Co 228.616			Recovery = Not calculated					
Cr 267.716†	1.2	0.0000 mg/L		0.00015	0.0000 mg/L		0.00015	607.68%
QC value within limits for Cr 267.716			Recovery = Not calculated					
Cu 327.393†	610.2	0.0060 mg/L		0.00052	0.0060 mg/L		0.00052	8.57%
QC value within limits for Cu 327.393			Recovery = Not calculated					
Fe 238.204†	0.8	0.0002 mg/L		0.00039	0.0002 mg/L		0.00039	161.94%
QC value within limits for Fe 238.204			Recovery = Not calculated					
K 766.490†	78.2	0.0392 mg/L		0.04000	0.0392 mg/L		0.04000	102.15%
QC value within limits for K 766.490			Recovery = Not calculated					
Mg 285.213†	10.5	0.0010 mg/L		0.00029	0.0010 mg/L		0.00029	28.68%
QC value within limits for Mg 285.213			Recovery = Not calculated					
Mn 257.610†	-11.4	-0.0005 mg/L		0.00031	-0.0005 mg/L		0.00031	61.07%
QC value within limits for Mn 257.610			Recovery = Not calculated					
Mo 202.031†	4.7	0.0003 mg/L		0.00023	0.0003 mg/L		0.00023	69.57%
QC value within limits for Mo 202.031			Recovery = Not calculated					
Na 589.592†	-33.2	-0.0035 mg/L		0.00674	-0.0035 mg/L		0.00674	190.19%
QC value within limits for Na 589.592			Recovery = Not calculated					
Ni 231.604†	0.5	0.0000 mg/L		0.00030	0.0000 mg/L		0.00030	>999.9%
QC value within limits for Ni 231.604			Recovery = Not calculated					
Pb 220.353†	2.9	0.0008 mg/L		0.00190	0.0008 mg/L		0.00190	234.40%
QC value within limits for Pb 220.353			Recovery = Not calculated					
Sb 206.836†	0.7	0.0004 mg/L		0.00132	0.0004 mg/L		0.00132	362.23%
QC value within limits for Sb 206.836			Recovery = Not calculated					
Se 196.026†	-6.3	-0.0039 mg/L		0.00489	-0.0039 mg/L		0.00489	125.06%
QC value within limits for Se 196.026			Recovery = Not calculated					
Sn 189.927†	-0.1	-0.0000 mg/L		0.00146	-0.0000 mg/L		0.00146	>999.9%
QC value within limits for Sn 189.927			Recovery = Not calculated					
Ti 337.279†	7.2	0.0004 mg/L		0.00151	0.0004 mg/L		0.00151	385.87%
QC value within limits for Ti 337.279			Recovery = Not calculated					
Tl 351.924†	-3.9	-0.0011 mg/L		0.00236	-0.0011 mg/L		0.00236	207.19%
QC value within limits for Tl 351.924			Recovery = Not calculated					
V 290.880†	-19.3	-0.0003 mg/L		0.00058	-0.0003 mg/L		0.00058	192.25%
QC value within limits for V 290.880			Recovery = Not calculated					
Zn 206.200†	33.5	0.0018 mg/L		0.00057	0.0018 mg/L		0.00057	32.19%
QC value within limits for Zn 206.200			Recovery = Not calculated					
Zr 343.823†	27.1	0.0002 mg/L		0.00024	0.0002 mg/L		0.00024	150.31%
All analyte(s) passed QC.								

Batch ID: OPTIMA 3

Sequence No.: 25

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Autosampler Location: 48

Date Collected: 4/18/2024 3:05:19 PM

Data Type: Original

Initial Sample Vol:

Dilution:
Rinse Time (before sample): 220

Sample Prep Vol: **RR MJH 4-19-24**

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148985.1	97.1	%	0.70	97.1	%	0.70	0.73%
Y axial	2035573.4	99.9	%	0.37	99.9	%	0.37	0.37%
Ag 328.068†	-22.5	-0.0005	mg/L	0.00045	-0.0005	mg/L	0.00045	98.89%
Al 396.153†	-21.8	-0.0059	mg/L	0.01144	-0.0059	mg/L	0.01144	195.13%
As 188.979†	6.7	0.0058	mg/L	0.00353	0.0058	mg/L	0.00353	60.77%
B 208.889†	90.9	0.0132	mg/L	0.00072	0.0132	mg/L	0.00072	5.50%
Ba 233.527†	7.4	0.0022	mg/L	0.00117	0.0022	mg/L	0.00117	54.22%
Be 313.107†	0.7	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	>999.9%
Ca 317.933†	134.7	0.0234	mg/L	0.00263	0.0234	mg/L	0.00263	11.23%
Cd 228.802†	-3.6	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	26.97%
Co 228.616†	-7.4	-0.0003	mg/L	0.00023	-0.0003	mg/L	0.00023	87.38%
Cr 267.716†	3.9	0.0001	mg/L	0.00029	0.0001	mg/L	0.00029	349.63%
Cu 327.393†	1206.6	0.0119	mg/L	0.00067	0.0119	mg/L	0.00067	5.63%
Fe 238.204†	7.7	0.0023	mg/L	0.00143	0.0023	mg/L	0.00143	63.19%
K 766.490†	77.6	0.0388	mg/L	0.05768	0.0388	mg/L	0.05768	148.50%
Mg 285.213†	21.8	0.0021	mg/L	0.00061	0.0021	mg/L	0.00061	29.72%
Mn 257.610†	-1.9	-0.0001	mg/L	0.00023	-0.0001	mg/L	0.00023	276.83%
Mo 202.031†	-0.1	-0.0000	mg/L	0.00014	-0.0000	mg/L	0.00014	>999.9%
Na 589.592†	129.1	0.0138	mg/L	0.00346	0.0138	mg/L	0.00346	25.07%
Ni 231.604†	-9.5	-0.0004	mg/L	0.00042	-0.0004	mg/L	0.00042	105.92%
Pb 220.353†	2.1	0.0006	mg/L	0.00138	0.0006	mg/L	0.00138	245.23%
Sb 206.836†	-1.0	-0.0005	mg/L	0.00239	-0.0005	mg/L	0.00239	451.29%
Se 196.026†	1.3	0.0008	mg/L	0.00087	0.0008	mg/L	0.00087	110.27%
Sn 189.927†	3.4	0.0008	mg/L	0.00113	0.0008	mg/L	0.00113	144.74%
Ti 337.279†	17.0	0.0009	mg/L	0.00243	0.0009	mg/L	0.00243	263.91%
Tl 351.924†	-13.8	-0.0041	mg/L	0.00436	-0.0041	mg/L	0.00436	107.40%
V 290.880†	-21.8	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	27.33%
Zn 206.200†	64.7	0.0034	mg/L	0.00020	0.0034	mg/L	0.00020	5.89%
Zr 343.823†	50.3	0.0003	mg/L	0.00030	0.0003	mg/L	0.00030	104.15%

User canceled analysis.

Analysis Begun

Start Time: 4/18/2024 3:13:21 PM
Originator: Optima8300
Spectrometer: Optima 8300 , S/N 078S1703073

Plasma On Time: 4/18/2024 8:09:32 AM
Technique: ICP Continuous
Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 25

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 48

Date Collected: 4/18/2024 3:13:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153805.7	100	%	1.65	100	%	1.65	1.64%
Y axial	2017892.9	99.0	%	1.00	99.0	%	1.00	1.01%
Ag 328.068†	-31.5	-0.0006	mg/L	0.00037	-0.0006	mg/L	0.00037	58.07%
Al 396.153†	-32.7	-0.0088	mg/L	0.00416	-0.0088	mg/L	0.00416	47.20%
As 188.979†	4.9	0.0043	mg/L	0.00188	0.0043	mg/L	0.00188	44.25%
B 208.889†	72.6	0.0105	mg/L	0.00055	0.0105	mg/L	0.00055	5.28%
Ba 233.527†	2.9	0.0008	mg/L	0.00031	0.0008	mg/L	0.00031	37.17%

Be 313.107†	5.5	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	95.29%
Ca 317.933†	107.4	0.0187	mg/L	0.00274	0.0187	mg/L	0.00274	14.68%
Cd 228.802†	-3.3	-0.0002	mg/L	0.00018	-0.0002	mg/L	0.00018	106.58%
Co 228.616†	-11.3	-0.0004	mg/L	0.00017	-0.0004	mg/L	0.00017	41.58%
Cr 267.716†	7.0	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	70.78%
Cu 327.393†	1087.3	0.0107	mg/L	0.00012	0.0107	mg/L	0.00012	1.14%
Fe 238.204†	10.4	0.0031	mg/L	0.00078	0.0031	mg/L	0.00078	25.25%
K 766.490†	48.0	0.0240	mg/L	0.02796	0.0240	mg/L	0.02796	116.33%
Mg 285.213†	5.6	0.0005	mg/L	0.00051	0.0005	mg/L	0.00051	97.38%
Mn 257.610†	5.4	0.0002	mg/L	0.00034	0.0002	mg/L	0.00034	146.95%
Mo 202.031†	7.3	0.0005	mg/L	0.00054	0.0005	mg/L	0.00054	106.36%
Na 589.592†	121.3	0.0130	mg/L	0.00691	0.0130	mg/L	0.00691	53.33%
Ni 231.604†	-11.8	-0.0005	mg/L	0.00034	-0.0005	mg/L	0.00034	69.01%
Pb 220.353†	6.4	0.0018	mg/L	0.00037	0.0018	mg/L	0.00037	20.59%
Sb 206.836†	-3.3	-0.0017	mg/L	0.00260	-0.0017	mg/L	0.00260	152.36%
Se 196.026†	-0.9	-0.0005	mg/L	0.00384	-0.0005	mg/L	0.00384	708.75%
Sn 189.927†	4.3	0.0010	mg/L	0.00121	0.0010	mg/L	0.00121	123.30%
Ti 337.279†	20.1	0.0011	mg/L	0.00204	0.0011	mg/L	0.00204	187.45%
Tl 351.924†	-17.2	-0.0050	mg/L	0.00258	-0.0050	mg/L	0.00258	51.03%
V 290.880†	-39.2	-0.0006	mg/L	0.00004	-0.0006	mg/L	0.00004	5.76%
Zn 206.200†	51.3	0.0027	mg/L	0.00043	0.0027	mg/L	0.00043	15.72%
Zr 343.823†	29.7	0.0002	mg/L	0.00025	0.0002	mg/L	0.00025	142.22%

Batch ID: OPTIMA 3

Sequence No.: 26

Sample ID: B371416-BS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 49

Date Collected: 4/18/2024 3:21:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	147860.9	96.4	%	2.59	96.4	%	2.59	2.69%
Y axial	2036841.9	100.0	%	2.06	100.0	%	2.06	2.06%
Ag 328.068†	31947.2	0.6397	mg/L	0.02018	0.6397	mg/L	0.02018	3.15%
Al 396.153†	2009.2	0.5170	mg/L	0.01810	0.5170	mg/L	0.01810	3.50%
As 188.979†	527.8	0.4604	mg/L	0.00925	0.4604	mg/L	0.00925	2.01%
B 208.889†	6500.7	0.9171	mg/L	0.01321	0.9171	mg/L	0.01321	1.44%
Ba 233.527†	1668.3	0.4835	mg/L	0.01121	0.4835	mg/L	0.01121	2.32%
Be 313.107†	136903.8	0.5008	mg/L	0.00198	0.5008	mg/L	0.00198	0.40%
Ca 317.933†	23596.3	4.101	mg/L	0.1438	4.101	mg/L	0.1438	3.51%
Cd 228.802†	14281.0	0.4953	mg/L	0.00854	0.4953	mg/L	0.00854	1.72%
Co 228.616†	13892.5	0.4971	mg/L	0.00847	0.4971	mg/L	0.00847	1.70%
Cr 267.716†	23460.5	0.4981	mg/L	0.01064	0.4981	mg/L	0.01064	2.14%
Cu 327.393†	100523.6	0.9912	mg/L	0.01707	0.9912	mg/L	0.01707	1.72%
Fe 238.204†	14096.2	4.161	mg/L	0.1304	4.161	mg/L	0.1304	3.13%
K 766.490†	8262.3	4.136	mg/L	0.0205	4.136	mg/L	0.0205	0.50%
Mg 285.213†	42786.4	4.062	mg/L	0.0007	4.062	mg/L	0.0007	0.02%
Mn 257.610†	11733.5	0.5146	mg/L	0.01580	0.5146	mg/L	0.01580	3.07%
Mo 202.031†	7064.7	0.4925	mg/L	0.00846	0.4925	mg/L	0.00846	1.72%
Na 589.592†	37909.2	4.051	mg/L	0.0108	4.051	mg/L	0.0108	0.27%
Ni 231.604†	11810.7	0.4961	mg/L	0.00620	0.4961	mg/L	0.00620	1.25%
Pb 220.353†	1774.5	0.4920	mg/L	0.00767	0.4920	mg/L	0.00767	1.56%
Sb 206.836†	942.5	0.4918	mg/L	0.00906	0.4918	mg/L	0.00906	1.84%
Se 196.026†	767.5	0.4810	mg/L	0.00661	0.4810	mg/L	0.00661	1.37%
Sn 189.927†	2009.9	0.4689	mg/L	0.00733	0.4689	mg/L	0.00733	1.56%
Ti 337.279†	9385.2	0.5091	mg/L	0.01531	0.5091	mg/L	0.01531	3.01%
Tl 351.924†	1680.6	0.4986	mg/L	0.00545	0.4986	mg/L	0.00545	1.09%
V 290.880†	30902.2	0.5069	mg/L	0.00886	0.5069	mg/L	0.00886	1.75%
Zn 206.200†	18947.1	1.006	mg/L	0.0119	1.006	mg/L	0.0119	1.19%
Zr 343.823†	98.9	0.0006	mg/L	0.00010	0.0006	mg/L	0.00010	18.06%

Batch ID: OPTIMA 3

Sequence No.: 27

Sample ID: B371416-BSD1

Autosampler Location: 50

Date Collected: 4/18/2024 3:29:07 PM

Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B371416-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	149801.0	97.7	%	1.13	97.7	%	1.13	1.15%
Y axial	2017325.5	99.0	%	0.11	99.0	%	0.11	0.11%
Ag 328.068†	31321.0	0.6271	mg/L	0.00698	0.6271	mg/L	0.00698	1.11%
Al 396.153†	1976.2	0.5081	mg/L	0.00915	0.5081	mg/L	0.00915	1.80%
As 188.979†	533.4	0.4653	mg/L	0.00338	0.4653	mg/L	0.00338	0.73%
B 208.889†	6595.0	0.9307	mg/L	0.00200	0.9307	mg/L	0.00200	0.22%
Ba 233.527†	1686.6	0.4889	mg/L	0.00307	0.4889	mg/L	0.00307	0.63%
Be 313.107†	137078.6	0.5014	mg/L	0.00116	0.5014	mg/L	0.00116	0.23%
Ca 317.933†	23141.4	4.022	mg/L	0.0470	4.022	mg/L	0.0470	1.17%
Cd 228.802†	14388.9	0.4991	mg/L	0.00085	0.4991	mg/L	0.00085	0.17%
Co 228.616†	14005.4	0.5012	mg/L	0.00099	0.5012	mg/L	0.00099	0.20%
Cr 267.716†	23536.3	0.4997	mg/L	0.00739	0.4997	mg/L	0.00739	1.48%
Cu 327.393†	100623.5	0.9922	mg/L	0.01219	0.9922	mg/L	0.01219	1.23%
Fe 238.204†	13917.7	4.108	mg/L	0.0487	4.108	mg/L	0.0487	1.19%
K 766.490†	8273.7	4.141	mg/L	0.0102	4.141	mg/L	0.0102	0.25%
Mg 285.213†	43105.8	4.092	mg/L	0.0457	4.092	mg/L	0.0457	1.12%
Mn 257.610†	11522.4	0.5054	mg/L	0.00539	0.5054	mg/L	0.00539	1.07%
Mo 202.031†	7076.6	0.4934	mg/L	0.00179	0.4934	mg/L	0.00179	0.36%
Na 589.592†	37829.4	4.043	mg/L	0.0049	4.043	mg/L	0.0049	0.12%
Ni 231.604†	11746.5	0.4934	mg/L	0.00784	0.4934	mg/L	0.00784	1.59%
Pb 220.353†	1768.6	0.4903	mg/L	0.00147	0.4903	mg/L	0.00147	0.30%
Sb 206.836†	948.6	0.4950	mg/L	0.00302	0.4950	mg/L	0.00302	0.61%
Se 196.026†	774.1	0.4851	mg/L	0.00109	0.4851	mg/L	0.00109	0.22%
Sn 189.927†	2024.8	0.4723	mg/L	0.00124	0.4723	mg/L	0.00124	0.26%
Ti 337.279†	9240.9	0.5013	mg/L	0.00530	0.5013	mg/L	0.00530	1.06%
Tl 351.924†	1699.8	0.5042	mg/L	0.00364	0.5042	mg/L	0.00364	0.72%
V 290.880†	30865.8	0.5063	mg/L	0.00680	0.5063	mg/L	0.00680	1.34%
Zn 206.200†	18876.8	1.002	mg/L	0.0157	1.002	mg/L	0.0157	1.57%
Zr 343.823†	73.1	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	13.36%

=====

Batch ID: OPTIMA 3

Sequence No.: 28

Sample ID: B371416-MS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 51

Date Collected: 4/18/2024 3:36:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154738.7	101	%	1.36	101	%	1.36	1.34%
Y axial	1972082.4	96.8	%	0.31	96.8	%	0.31	0.32%
Ag 328.068†	31359.2	0.6279	mg/L	0.00970	0.6279	mg/L	0.00970	1.54%
Al 396.153†	2111.3	0.5394	mg/L	0.01206	0.5394	mg/L	0.01206	2.24%
As 188.979†	552.0	0.4819	mg/L	0.00639	0.4819	mg/L	0.00639	1.33%
B 208.889†	6938.5	0.9800	mg/L	0.00739	0.9800	mg/L	0.00739	0.75%
Ba 233.527†	1772.7	0.5137	mg/L	0.00265	0.5137	mg/L	0.00265	0.52%
Be 313.107†	137857.4	0.5042	mg/L	0.00120	0.5042	mg/L	0.00120	0.24%
Ca 317.933†	182437.0	31.72	mg/L	0.107	31.72	mg/L	0.107	0.34%
Cd 228.802†	14626.6	0.5072	mg/L	0.00266	0.5072	mg/L	0.00266	0.52%
Co 228.616†	14018.1	0.5017	mg/L	0.00316	0.5017	mg/L	0.00316	0.63%
Cr 267.716†	24010.0	0.5098	mg/L	0.00956	0.5098	mg/L	0.00956	1.88%
Cu 327.393†	104319.8	1.029	mg/L	0.0153	1.029	mg/L	0.0153	1.48%
Fe 238.204†	21182.4	6.250	mg/L	0.1355	6.250	mg/L	0.1355	2.17%
K 766.490†	9701.8	4.856	mg/L	0.0317	4.856	mg/L	0.0317	0.65%
Mg 285.213†	97438.0	9.240	mg/L	0.0100	9.240	mg/L	0.0100	0.11%
Mn 257.610†	15447.3	0.6774	mg/L	0.01488	0.6774	mg/L	0.01488	2.20%
Mo 202.031†	7205.0	0.5018	mg/L	0.00426	0.5018	mg/L	0.00426	0.85%

Na 589.592†	647764.1	69.22 mg/L	0.071	69.22 mg/L	0.071	0.10%
Ni 231.604†	11695.8	0.4913 mg/L	0.01327	0.4913 mg/L	0.01327	2.70%
Pb 220.353†	1749.3	0.4852 mg/L	0.00539	0.4852 mg/L	0.00539	1.11%
Sb 206.836†	967.5	0.5045 mg/L	0.00233	0.5045 mg/L	0.00233	0.46%
Se 196.026†	788.5	0.4954 mg/L	0.00569	0.4954 mg/L	0.00569	1.15%
Sn 189.927†	1886.7	0.4514 mg/L	0.00373	0.4514 mg/L	0.00373	0.83%
Ti 337.279†	8964.0	0.4863 mg/L	0.00991	0.4863 mg/L	0.00991	2.04%
Tl 351.924†	1708.8	0.5063 mg/L	0.00438	0.5063 mg/L	0.00438	0.87%
V 290.880†	31710.7	0.5197 mg/L	0.00909	0.5197 mg/L	0.00909	1.75%
Zn 206.200†	20830.3	1.099 mg/L	0.0282	1.099 mg/L	0.0282	2.56%
Zr 343.823†	106.9	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	5.18%

Batch ID: OPTIMA 3

Sequence No.: 29

Sample ID: B371416-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 52

Date Collected: 4/18/2024 3:44:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148544.6	96.8	%	3.33	96.8	%	3.33	3.44%
Y axial	1957160.4	96.1	%	0.87	96.1	%	0.87	0.90%
Ag 328.068†	31935.4	0.6395	mg/L	0.01013	0.6395	mg/L	0.01013	1.58%
Al 396.153†	2223.4	0.5694	mg/L	0.02085	0.5694	mg/L	0.02085	3.66%
As 188.979†	557.4	0.4867	mg/L	0.00549	0.4867	mg/L	0.00549	1.13%
B 208.889†	6965.7	0.9840	mg/L	0.00862	0.9840	mg/L	0.00862	0.88%
Ba 233.527†	1805.5	0.5232	mg/L	0.00534	0.5232	mg/L	0.00534	1.02%
Be 313.107†	142692.5	0.5220	mg/L	0.02090	0.5220	mg/L	0.02090	4.00%
Ca 317.933†	187827.8	32.65	mg/L	1.298	32.65	mg/L	1.298	3.98%
Cd 228.802†	14694.3	0.5095	mg/L	0.00418	0.5095	mg/L	0.00418	0.82%
Co 228.616†	14048.6	0.5027	mg/L	0.00530	0.5027	mg/L	0.00530	1.05%
Cr 267.716†	24177.0	0.5133	mg/L	0.00614	0.5133	mg/L	0.00614	1.20%
Cu 327.393†	104489.9	1.030	mg/L	0.0099	1.030	mg/L	0.0099	0.96%
Fe 238.204†	22235.5	6.561	mg/L	0.2382	6.561	mg/L	0.2382	3.63%
K 766.490†	10185.4	5.098	mg/L	0.2172	5.098	mg/L	0.2172	4.26%
Mg 285.213†	100905.8	9.569	mg/L	0.3860	9.569	mg/L	0.3860	4.03%
Mn 257.610†	16171.7	0.7092	mg/L	0.02470	0.7092	mg/L	0.02470	3.48%
Mo 202.031†	7192.4	0.5009	mg/L	0.00395	0.5009	mg/L	0.00395	0.79%
Na 589.592†	667150.3	71.29	mg/L	2.760	71.29	mg/L	2.760	3.87%
Ni 231.604†	11726.4	0.4926	mg/L	0.00529	0.4926	mg/L	0.00529	1.07%
Pb 220.353†	1764.7	0.4895	mg/L	0.00598	0.4895	mg/L	0.00598	1.22%
Sb 206.836†	978.3	0.5100	mg/L	0.00228	0.5100	mg/L	0.00228	0.45%
Se 196.026†	783.1	0.4924	mg/L	0.00754	0.4924	mg/L	0.00754	1.53%
Sn 189.927†	1913.6	0.4582	mg/L	0.00272	0.4582	mg/L	0.00272	0.59%
Ti 337.279†	9403.8	0.5101	mg/L	0.01734	0.5101	mg/L	0.01734	3.40%
Tl 351.924†	1732.0	0.5132	mg/L	0.00873	0.5132	mg/L	0.00873	1.70%
V 290.880†	31904.6	0.5227	mg/L	0.00556	0.5227	mg/L	0.00556	1.06%
Zn 206.200†	20976.8	1.107	mg/L	0.0142	1.107	mg/L	0.0142	1.28%
Zr 343.823†	139.9	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	7.74%

Batch ID: OPTIMA 3

Sequence No.: 30

Sample ID: 24D0735-04

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 53

Date Collected: 4/18/2024 3:52:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153966.9	100	%	0.41	100	%	0.41	0.41%
Y axial	2009144.2	98.6	%	2.17	98.6	%	2.17	2.20%

Ag 328.068†	-37.2	-0.0007 mg/L	0.00055	-0.0007 mg/L	0.00055	76.13%
Al 396.153†	186.4	0.0453 mg/L	0.00818	0.0453 mg/L	0.00818	18.05%
As 188.979†	7.4	0.0069 mg/L	0.00339	0.0069 mg/L	0.00339	49.41%
B 208.889†	226.1	0.0326 mg/L	0.00190	0.0326 mg/L	0.00190	5.83%
Ba 233.527†	72.3	0.0209 mg/L	0.00100	0.0209 mg/L	0.00100	4.79%
Be 313.107†	-1.8	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	171.10%
Ca 317.933†	160776.8	27.95 mg/L	0.085	27.95 mg/L	0.085	0.30%
Cd 228.802†	27.6	0.0009 mg/L	0.00043	0.0009 mg/L	0.00043	48.22%
Co 228.616†	6.4	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	43.09%
Cr 267.716†	195.6	0.0042 mg/L	0.00019	0.0042 mg/L	0.00019	4.55%
Cu 327.393†	1135.8	0.0113 mg/L	0.00006	0.0113 mg/L	0.00006	0.53%
Fe 238.204†	7760.0	2.288 mg/L	0.0337	2.288 mg/L	0.0337	1.47%
K 766.490†	1817.6	0.9096 mg/L	0.01649	0.9096 mg/L	0.01649	1.81%
Mg 285.213†	54842.1	5.197 mg/L	0.0563	5.197 mg/L	0.0563	1.08%
Mn 257.610†	4426.6	0.1941 mg/L	0.00221	0.1941 mg/L	0.00221	1.14%
Mo 202.031†	41.0	0.0023 mg/L	0.00032	0.0023 mg/L	0.00032	13.77%
Na 589.592†	610571.3	65.25 mg/L	0.149	65.25 mg/L	0.149	0.23%
Ni 231.604†	28.3	0.0012 mg/L	0.00054	0.0012 mg/L	0.00054	45.86%
Pb 220.353†	0.8	0.0005 mg/L	0.00228	0.0005 mg/L	0.00228	496.48%
Sb 206.836†	4.3	0.0018 mg/L	0.00376	0.0018 mg/L	0.00376	213.51%
Se 196.026†	-8.0	-0.0035 mg/L	0.00587	-0.0035 mg/L	0.00587	169.98%
Sn 189.927†	-180.4	-0.0306 mg/L	0.00222	-0.0306 mg/L	0.00222	7.26%
Ti 337.279†	28.4	0.0015 mg/L	0.00134	0.0015 mg/L	0.00134	87.17%
Tl 351.924†	-8.6	-0.0031 mg/L	0.01293	-0.0031 mg/L	0.01293	411.65%
V 290.880†	106.0	0.0014 mg/L	0.00040	0.0014 mg/L	0.00040	29.81%
Zn 206.200†	1637.5	0.0807 mg/L	0.00198	0.0807 mg/L	0.00198	2.45%
Zr 343.823†	71.7	0.0004 mg/L	0.00013	0.0004 mg/L	0.00013	30.18%

Batch ID: OPTIMA 3

Sequence No.: 31

Sample ID: 24D0735-03

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 54

Date Collected: 4/18/2024 4:00:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151583.6	98.8 %	1.53	98.8 %	1.53	1.55%
Y axial	2004737.2	98.4 %	1.24	98.4 %	1.24	1.26%
Ag 328.068†	-15.4	-0.0005 mg/L	0.00018	-0.0005 mg/L	0.00018	37.44%
Al 396.153†	80.6	0.0175 mg/L	0.00674	0.0175 mg/L	0.00674	38.53%
As 188.979†	6.8	0.0065 mg/L	0.00368	0.0065 mg/L	0.00368	56.94%
B 208.889†	451.2	0.0653 mg/L	0.00107	0.0653 mg/L	0.00107	1.63%
Ba 233.527†	122.3	0.0353 mg/L	0.00021	0.0353 mg/L	0.00021	0.60%
Be 313.107†	14.9	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	7.84%
Ca 317.933†	145580.3	25.31 mg/L	0.091	25.31 mg/L	0.091	0.36%
Cd 228.802†	8.8	0.0003 mg/L	0.00028	0.0003 mg/L	0.00028	109.35%
Co 228.616†	193.2	0.0069 mg/L	0.00037	0.0069 mg/L	0.00037	5.39%
Cr 267.716†	16.7	0.0000 mg/L	0.00037	0.0000 mg/L	0.00037	780.51%
Cu 327.393†	1032.1	0.0103 mg/L	0.00132	0.0103 mg/L	0.00132	12.87%
Fe 238.204†	13366.6	3.941 mg/L	0.0218	3.941 mg/L	0.0218	0.55%
K 766.490†	5283.6	2.644 mg/L	0.0293	2.644 mg/L	0.0293	1.11%
Mg 285.213†	45214.2	4.286 mg/L	0.0057	4.286 mg/L	0.0057	0.13%
Mn 257.610†	31616.6	1.386 mg/L	0.0035	1.386 mg/L	0.0035	0.25%
Mo 202.031†	17.6	0.0009 mg/L	0.00043	0.0009 mg/L	0.00043	48.50%
Na 589.592†	146854.6	15.69 mg/L	0.034	15.69 mg/L	0.034	0.22%
Ni 231.604†	23.7	0.0008 mg/L	0.00037	0.0008 mg/L	0.00037	44.13%
Pb 220.353†	-1.1	-0.0004 mg/L	0.00035	-0.0004 mg/L	0.00035	101.08%
Sb 206.836†	-2.0	-0.0014 mg/L	0.00164	-0.0014 mg/L	0.00164	113.38%
Se 196.026†	-15.1	-0.0065 mg/L	0.00245	-0.0065 mg/L	0.00245	37.56%
Sn 189.927†	-146.9	-0.0247 mg/L	0.00063	-0.0247 mg/L	0.00063	2.55%
Ti 337.279†	16.5	0.0009 mg/L	0.00018	0.0009 mg/L	0.00018	19.64%
Tl 351.924†	-3.1	-0.0014 mg/L	0.01549	-0.0014 mg/L	0.01549	>999.9%
V 290.880†	49.6	0.0003 mg/L	0.00020	0.0003 mg/L	0.00020	60.81%
Zn 206.200†	65.8	0.0018 mg/L	0.00016	0.0018 mg/L	0.00016	8.90%
Zr 343.823†	54.8	0.0003 mg/L	0.00026	0.0003 mg/L	0.00026	80.97%

Batch ID: OPTIMA 3

Sequence No.: 32

Sample ID: 24D0735-05

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 55

Date Collected: 4/18/2024 4:08:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148113.0	96.5	%	0.53	96.5	%	0.53	0.54%
Y axial	1966038.5	96.5	%	0.63	96.5	%	0.63	0.65%
Ag 328.068†	-72.3	-0.0014	mg/L	0.00096	-0.0014	mg/L	0.00096	66.35%
Al 396.153†	207.5	0.0542	mg/L	0.00345	0.0542	mg/L	0.00345	6.38%
As 188.979†	2.3	0.0021	mg/L	0.00319	0.0021	mg/L	0.00319	153.47%
B 208.889†	260.4	0.0377	mg/L	0.00144	0.0377	mg/L	0.00144	3.83%
Ba 233.527†	115.2	0.0334	mg/L	0.00087	0.0334	mg/L	0.00087	2.61%
Be 313.107†	12.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	113.07%
Ca 317.933†	53811.3	9.355	mg/L	0.0170	9.355	mg/L	0.0170	0.18%
Cd 228.802†	26.4	0.0009	mg/L	0.00011	0.0009	mg/L	0.00011	11.80%
Co 228.616†	-2.1	-0.0001	mg/L	0.00018	-0.0001	mg/L	0.00018	261.57%
Cr 267.716†	893.4	0.0190	mg/L	0.00026	0.0190	mg/L	0.00026	1.36%
Cu 327.393†	1118.3	0.0110	mg/L	0.00105	0.0110	mg/L	0.00105	9.51%
Fe 238.204†	405.7	0.1196	mg/L	0.00094	0.1196	mg/L	0.00094	0.79%
K 766.490†	3158.2	1.581	mg/L	0.0636	1.581	mg/L	0.0636	4.02%
Mg 285.213†	16302.8	1.544	mg/L	0.0043	1.544	mg/L	0.0043	0.28%
Mn 257.610†	485.3	0.0213	mg/L	0.00014	0.0213	mg/L	0.00014	0.64%
Mo 202.031†	8.7	0.0004	mg/L	0.00049	0.0004	mg/L	0.00049	131.79%
Na 589.592†	127408.3	13.62	mg/L	0.027	13.62	mg/L	0.027	0.20%
Ni 231.604†	18.1	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	33.71%
Pb 220.353†	-1.5	-0.0003	mg/L	0.00097	-0.0003	mg/L	0.00097	314.51%
Sb 206.836†	1.9	0.0006	mg/L	0.00255	0.0006	mg/L	0.00255	433.41%
Se 196.026†	-4.8	-0.0032	mg/L	0.00214	-0.0032	mg/L	0.00214	66.44%
Sn 189.927†	-52.3	-0.0087	mg/L	0.00111	-0.0087	mg/L	0.00111	12.65%
Ti 337.279†	31.3	0.0017	mg/L	0.00054	0.0017	mg/L	0.00054	31.74%
Tl 351.924†	-0.5	-0.0003	mg/L	0.01321	-0.0003	mg/L	0.01321	>999.9%
V 290.880†	10.5	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	86.53%
Zn 206.200†	86.4	0.0036	mg/L	0.00016	0.0036	mg/L	0.00016	4.60%
Zr 343.823†	-13.5	-0.0001	mg/L	0.00026	-0.0001	mg/L	0.00026	337.77%

Batch ID: OPTIMA 3

Sequence No.: 33

Sample ID: 24D0735-06

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 56

Date Collected: 4/18/2024 4:15:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155188.2	101	%	1.16	101	%	1.16	1.15%
Y axial	1981875.6	97.3	%	0.35	97.3	%	0.35	0.36%
Ag 328.068†	-92.4	-0.0017	mg/L	0.00020	-0.0017	mg/L	0.00020	11.64%
Al 396.153†	3413.6	0.9125	mg/L	0.02260	0.9125	mg/L	0.02260	2.48%
As 188.979†	8.1	0.0081	mg/L	0.00136	0.0081	mg/L	0.00136	16.80%
B 208.889†	248.8	0.0359	mg/L	0.00154	0.0359	mg/L	0.00154	4.30%
Ba 233.527†	183.2	0.0529	mg/L	0.00116	0.0529	mg/L	0.00116	2.18%
Be 313.107†	18.5	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	50.00%
Ca 317.933†	193761.0	33.69	mg/L	0.129	33.69	mg/L	0.129	0.38%
Cd 228.802†	15837.1	0.5536	mg/L	0.00546	0.5536	mg/L	0.00546	0.99%
Co 228.616†	179.5	0.0064	mg/L	0.00013	0.0064	mg/L	0.00013	1.98%
Cr 267.716†	165.6	0.0036	mg/L	0.00024	0.0036	mg/L	0.00024	6.73%
Cu 327.393†	5147.2	0.0509	mg/L	0.00138	0.0509	mg/L	0.00138	2.72%

Fe 238.204†	19892.9	5.866 mg/L	0.0467	5.866 mg/L	0.0467	0.80%
K 766.490†	7204.5	3.606 mg/L	0.0232	3.606 mg/L	0.0232	0.64%
Mg 285.213†	60889.8	5.772 mg/L	0.0471	5.772 mg/L	0.0471	0.82%
Mn 257.610†	7261.3	0.3184 mg/L	0.00372	0.3184 mg/L	0.00372	1.17%
Mo 202.031†	31.4	0.0018 mg/L	0.00037	0.0018 mg/L	0.00037	20.53%
Na 589.592†	563008.0	60.17 mg/L	0.321	60.17 mg/L	0.321	0.53%
Ni 231.604†	182.5	0.0076 mg/L	0.00011	0.0076 mg/L	0.00011	1.41%
Pb 220.353†	52.3	0.0147 mg/L	0.00081	0.0147 mg/L	0.00081	5.52%
Sb 206.836†	8.8	0.0039 mg/L	0.00187	0.0039 mg/L	0.00187	48.25%
Se 196.026†	-20.1	-0.0069 mg/L	0.00246	-0.0069 mg/L	0.00246	35.39%
Sn 189.927†	-197.6	-0.0332 mg/L	0.00086	-0.0332 mg/L	0.00086	2.58%
Ti 337.279†	752.4	0.0408 mg/L	0.00028	0.0408 mg/L	0.00028	0.69%
Tl 351.924†	-0.1	-0.0002 mg/L	0.01063	-0.0002 mg/L	0.01063	>999.9%
V 290.880†	426.0	0.0062 mg/L	0.00047	0.0062 mg/L	0.00047	7.62%
Zn 206.200†	2419.1	0.1222 mg/L	0.00069	0.1222 mg/L	0.00069	0.56%
Zr 343.823†	137.9	0.0008 mg/L	0.00032	0.0008 mg/L	0.00032	39.77%

Batch ID: OPTIMA 3

Sequence No.: 34

Sample ID: 24D0735-07

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 57

Date Collected: 4/18/2024 4:23:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150976.5	98.4	%	2.84	98.4	%	2.84	2.89%
Y axial	1966269.1	96.5	%	1.13	96.5	%	1.13	1.17%
Ag 328.068†	-56.2	-0.0011	mg/L	0.00027	-0.0011	mg/L	0.00027	24.14%
Al 396.153†	940.5	0.2515	mg/L	0.01023	0.2515	mg/L	0.01023	4.07%
As 188.979†	9.0	0.0079	mg/L	0.00061	0.0079	mg/L	0.00061	7.74%
B 208.889†	242.6	0.0351	mg/L	0.00130	0.0351	mg/L	0.00130	3.71%
Ba 233.527†	52.6	0.0152	mg/L	0.00100	0.0152	mg/L	0.00100	6.57%
Be 313.107†	24.8	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	68.91%
Ca 317.933†	47100.3	8.189	mg/L	0.0464	8.189	mg/L	0.0464	0.57%
Cd 228.802†	8.3	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	58.80%
Co 228.616†	10.0	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	31.57%
Cr 267.716†	49.6	0.0011	mg/L	0.00015	0.0011	mg/L	0.00015	13.73%
Cu 327.393†	939.7	0.0093	mg/L	0.00056	0.0093	mg/L	0.00056	6.00%
Fe 238.204†	1326.6	0.3912	mg/L	0.01254	0.3912	mg/L	0.01254	3.21%
K 766.490†	3115.9	1.560	mg/L	0.0725	1.560	mg/L	0.0725	4.65%
Mg 285.213†	14793.9	1.402	mg/L	0.0042	1.402	mg/L	0.0042	0.30%
Mn 257.610†	399.3	0.0175	mg/L	0.00036	0.0175	mg/L	0.00036	2.06%
Mo 202.031†	17.7	0.0010	mg/L	0.00038	0.0010	mg/L	0.00038	36.33%
Na 589.592†	125494.2	13.41	mg/L	0.077	13.41	mg/L	0.077	0.57%
Ni 231.604†	36.2	0.0015	mg/L	0.00034	0.0015	mg/L	0.00034	22.26%
Pb 220.353†	0.4	0.0002	mg/L	0.00115	0.0002	mg/L	0.00115	512.94%
Sb 206.836†	6.4	0.0032	mg/L	0.00112	0.0032	mg/L	0.00112	35.38%
Se 196.026†	-0.6	-0.0002	mg/L	0.00280	-0.0002	mg/L	0.00280	>999.9%
Sn 189.927†	-45.6	-0.0075	mg/L	0.00115	-0.0075	mg/L	0.00115	15.31%
Ti 337.279†	180.0	0.0098	mg/L	0.00066	0.0098	mg/L	0.00066	6.72%
Tl 351.924†	-36.4	-0.0109	mg/L	0.01686	-0.0109	mg/L	0.01686	155.31%
V 290.880†	38.5	0.0006	mg/L	0.00023	0.0006	mg/L	0.00023	42.06%
Zn 206.200†	77.3	0.0029	mg/L	0.00012	0.0029	mg/L	0.00012	4.07%
Zr 343.823†	16.8	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	168.80%

Batch ID: OPTIMA 3

Sequence No.: 35

Sample ID: SEQ-CCV@ 23IJ0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 4:31:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150086.5	97.8	%	1.19	97.8 %	1.19	1.22%
Y axial	1960054.4	96.2	%	1.20	96.2 %	1.20	1.25%
Ag 328.068†	117115.3	2.345	mg/L	0.0228	2.345 mg/L	0.0228	0.97%
QC value within limits for Ag 328.068				Recovery = 93.79%			
Al 396.153†	38504.3	10.12	mg/L	0.018	10.12 mg/L	0.018	0.18%
QC value within limits for Al 396.153				Recovery = 101.23%			
As 188.979†	5670.4	4.942	mg/L	0.0196	4.942 mg/L	0.0196	0.40%
QC value within limits for As 188.979				Recovery = 98.84%			
B 208.889†	33413.0	4.595	mg/L	0.0207	4.595 mg/L	0.0207	0.45%
QC value within limits for B 208.889				Recovery = 91.91%			
Ba 233.527†	17186.9	4.983	mg/L	0.0030	4.983 mg/L	0.0030	0.06%
QC value within limits for Ba 233.527				Recovery = 99.66%			
Be 313.107†	1383923.8	5.062	mg/L	0.2301	5.062 mg/L	0.2301	4.55%
QC value within limits for Be 313.107				Recovery = 101.24%			
Ca 317.933†	56960.8	9.902	mg/L	0.0161	9.902 mg/L	0.0161	0.16%
QC value within limits for Ca 317.933				Recovery = 99.02%			
Cd 228.802†	146232.5	5.069	mg/L	0.0060	5.069 mg/L	0.0060	0.12%
QC value within limits for Cd 228.802				Recovery = 101.39%			
Co 228.616†	142622.0	5.104	mg/L	0.0077	5.104 mg/L	0.0077	0.15%
QC value within limits for Co 228.616				Recovery = 102.08%			
Cr 267.716†	240452.6	5.104	mg/L	0.0038	5.104 mg/L	0.0038	0.07%
QC value within limits for Cr 267.716				Recovery = 102.08%			
Cu 327.393†	504387.5	4.977	mg/L	0.0126	4.977 mg/L	0.0126	0.25%
QC value within limits for Cu 327.393				Recovery = 99.54%			
Fe 238.204†	17035.7	5.068	mg/L	0.0023	5.068 mg/L	0.0023	0.05%
QC value within limits for Fe 238.204				Recovery = 101.37%			
K 766.490†	20487.2	10.26	mg/L	0.036	10.26 mg/L	0.036	0.35%
QC value within limits for K 766.490				Recovery = 102.56%			
Mg 285.213†	108796.3	10.33	mg/L	0.021	10.33 mg/L	0.021	0.20%
QC value within limits for Mg 285.213				Recovery = 103.27%			
Mn 257.610†	114544.0	5.023	mg/L	0.0093	5.023 mg/L	0.0093	0.19%
QC value within limits for Mn 257.610				Recovery = 100.46%			
Mo 202.031†	71388.1	4.975	mg/L	0.0105	4.975 mg/L	0.0105	0.21%
QC value within limits for Mo 202.031				Recovery = 99.50%			
Na 589.592†	94996.5	10.15	mg/L	0.051	10.15 mg/L	0.051	0.51%
QC value within limits for Na 589.592				Recovery = 101.52%			
Ni 231.604†	117489.5	4.936	mg/L	0.0070	4.936 mg/L	0.0070	0.14%
QC value within limits for Ni 231.604				Recovery = 98.71%			
Pb 220.353†	17713.2	4.915	mg/L	0.0310	4.915 mg/L	0.0310	0.63%
QC value within limits for Pb 220.353				Recovery = 98.30%			
Sb 206.836†	9521.0	4.971	mg/L	0.0377	4.971 mg/L	0.0377	0.76%
QC value within limits for Sb 206.836				Recovery = 99.43%			
Se 196.026†	7964.5	4.948	mg/L	0.0230	4.948 mg/L	0.0230	0.46%
QC value within limits for Se 196.026				Recovery = 98.97%			
Sn 189.927†	21781.8	5.017	mg/L	0.0187	5.017 mg/L	0.0187	0.37%
QC value within limits for Sn 189.927				Recovery = 100.33%			
Ti 337.279†	92333.3	5.009	mg/L	0.0078	5.009 mg/L	0.0078	0.16%
QC value within limits for Ti 337.279				Recovery = 100.18%			
Tl 351.924†	8564.8	2.551	mg/L	0.0346	2.551 mg/L	0.0346	1.36%
QC value within limits for Tl 351.924				Recovery = 102.03%			
V 290.880†	315175.4	5.173	mg/L	0.0042	5.173 mg/L	0.0042	0.08%
QC value within limits for V 290.880				Recovery = 103.46%			
Zn 206.200†	94353.1	5.036	mg/L	0.0141	5.036 mg/L	0.0141	0.28%
QC value within limits for Zn 206.200				Recovery = 100.72%			
Zr 343.823†	850049.3	4.929	mg/L	0.0050	4.929 mg/L	0.0050	0.10%
All analyte(s) passed QC.							

Batch ID: OPTIMA 3

Sequence No.: 36

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 4:37:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	145353.6	94.8 %		2.29	94.8 %	2.29	2.41%
Y axial	1988875.2	97.6 %		0.53	97.6 %	0.53	0.55%
Ag 328.068†	1179.8	0.0236 mg/L		0.00132	0.0236 mg/L	0.00132	5.60%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated							
Al 396.153†	8.4	0.0022 mg/L		0.00807	0.0022 mg/L	0.00807	361.15%
QC value within limits for Al 396.153 Recovery = Not calculated							
As 188.979†	2.3	0.0020 mg/L		0.00257	0.0020 mg/L	0.00257	129.07%
QC value within limits for As 188.979 Recovery = Not calculated							
B 208.889†	105.4	0.0152 mg/L		0.00020	0.0152 mg/L	0.00020	1.30%
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	2.4	0.0007 mg/L		0.00031	0.0007 mg/L	0.00031	44.32%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	38.8	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	24.79%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933†	17.4	0.0030 mg/L		0.00430	0.0030 mg/L	0.00430	142.60%
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 228.802†	12.5	0.0004 mg/L		0.00002	0.0004 mg/L	0.00002	5.22%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	8.2	0.0003 mg/L		0.00017	0.0003 mg/L	0.00017	58.55%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-11.4	-0.0002 mg/L		0.00020	-0.0002 mg/L	0.00020	83.82%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	357.6	0.0035 mg/L		0.00058	0.0035 mg/L	0.00058	16.60%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	1.2	0.0004 mg/L		0.00197	0.0004 mg/L	0.00197	530.79%
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	168.9	0.0846 mg/L		0.03500	0.0846 mg/L	0.03500	41.40%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	14.7	0.0014 mg/L		0.00048	0.0014 mg/L	0.00048	34.13%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	-19.2	-0.0008 mg/L		0.00048	-0.0008 mg/L	0.00048	56.99%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.5	0.0008 mg/L		0.00049	0.0008 mg/L	0.00049	61.50%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	88.6	0.0095 mg/L		0.00292	0.0095 mg/L	0.00292	30.89%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	20.8	0.0009 mg/L		0.00051	0.0009 mg/L	0.00051	58.72%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	1.3	0.0004 mg/L		0.00287	0.0004 mg/L	0.00287	790.08%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-1.9	-0.0010 mg/L		0.00165	-0.0010 mg/L	0.00165	163.88%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.2	0.0032 mg/L		0.00382	0.0032 mg/L	0.00382	118.23%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	1.4	0.0003 mg/L		0.00114	0.0003 mg/L	0.00114	349.99%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	-18.7	-0.0010 mg/L		0.00068	-0.0010 mg/L	0.00068	67.30%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 351.924†	-20.0	-0.0059 mg/L		0.00151	-0.0059 mg/L	0.00151	25.65%
QC value within limits for Tl 351.924 Recovery = Not calculated							
V 290.880†	-39.9	-0.0006 mg/L		0.00011	-0.0006 mg/L	0.00011	18.05%
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	25.8	0.0014 mg/L		0.00033	0.0014 mg/L	0.00033	24.10%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Zr 343.823†	2.2	0.0000 mg/L		0.00037	0.0000 mg/L	0.00037	>999.9%
QC Failed. Continue with analysis.							

Batch ID: OPTIMA 3

Sequence No.: 37

Sample ID: 24D0735-08

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 58

Date Collected: 4/18/2024 4:43:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	149659.4	97.6	%	1.35	97.6	%	1.35	1.39%
Y axial	1973218.1	96.9	%	0.88	96.9	%	0.88	0.91%
Ag 328.068†	202.3	0.0040	mg/L	0.00056	0.0040	mg/L	0.00056	13.99%
Al 396.153†	1128.1	0.2936	mg/L	0.00811	0.2936	mg/L	0.00811	2.76%
As 188.979†	8.9	0.0078	mg/L	0.00158	0.0078	mg/L	0.00158	20.34%
B 208.889†	492.5	0.0711	mg/L	0.00022	0.0711	mg/L	0.00022	0.31%
Ba 233.527†	84.1	0.0244	mg/L	0.00033	0.0244	mg/L	0.00033	1.35%
Be 313.107†	22.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	42.05%
Ca 317.933†	326795.1	56.82	mg/L	0.057	56.82	mg/L	0.057	0.10%
Cd 228.802†	1445.7	0.0505	mg/L	0.00066	0.0505	mg/L	0.00066	1.31%
Co 228.616†	23.2	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	31.84%
Cr 267.716†	40.2	0.0008	mg/L	0.00009	0.0008	mg/L	0.00009	11.63%
Cu 327.393†	1113.1	0.0110	mg/L	0.00075	0.0110	mg/L	0.00075	6.83%
Fe 238.204†	1068.6	0.3151	mg/L	0.00328	0.3151	mg/L	0.00328	1.04%
K 766.490†	12484.7	6.250	mg/L	0.0383	6.250	mg/L	0.0383	0.61%
Mg 285.213†	64622.8	6.115	mg/L	0.0027	6.115	mg/L	0.0027	0.04%
Mn 257.610†	5022.2	0.2202	mg/L	0.00087	0.2202	mg/L	0.00087	0.39%
Mo 202.031†	52.1	0.0021	mg/L	0.00012	0.0021	mg/L	0.00012	5.71%
Na 589.592†	221509.6	23.67	mg/L	0.085	23.67	mg/L	0.085	0.36%
Ni 231.604†	55.5	0.0023	mg/L	0.00012	0.0023	mg/L	0.00012	5.02%
Pb 220.353†	-6.5	-0.0011	mg/L	0.00067	-0.0011	mg/L	0.00067	62.27%
Sb 206.836†	0.1	-0.0004	mg/L	0.00038	-0.0004	mg/L	0.00038	93.88%
Se 196.026†	-9.6	-0.0078	mg/L	0.00503	-0.0078	mg/L	0.00503	64.11%
Sn 189.927†	-210.4	-0.0346	mg/L	0.00204	-0.0346	mg/L	0.00204	5.90%
Ti 337.279†	161.0	0.0087	mg/L	0.00296	0.0087	mg/L	0.00296	33.91%
Tl 351.924†	0.7	-0.0011	mg/L	0.01308	-0.0011	mg/L	0.01308	>999.9%
V 290.880†	69.1	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	5.46%
Zn 206.200†	119.5	0.0043	mg/L	0.00025	0.0043	mg/L	0.00025	5.96%
Zr 343.823†	24.1	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	112.04%

Batch ID: OPTIMA 3

Sequence No.: 38

Sample ID: 24D0735-09

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 59

Date Collected: 4/18/2024 4:51:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148707.3	96.9	%	2.61	96.9	%	2.61	2.69%
Y axial	1980730.1	97.2	%	1.94	97.2	%	1.94	2.00%
Ag 328.068†	-49.0	-0.0010	mg/L	0.00063	-0.0010	mg/L	0.00063	65.49%
Al 396.153†	796.6	0.2092	mg/L	0.00830	0.2092	mg/L	0.00830	3.97%
As 188.979†	7.8	0.0070	mg/L	0.00243	0.0070	mg/L	0.00243	34.60%
B 208.889†	260.7	0.0376	mg/L	0.00248	0.0376	mg/L	0.00248	6.60%
Ba 233.527†	61.7	0.0178	mg/L	0.00078	0.0178	mg/L	0.00078	4.37%
Be 313.107†	27.5	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	69.43%
Ca 317.933†	169404.1	29.45	mg/L	0.030	29.45	mg/L	0.030	0.10%
Cd 228.802†	153.5	0.0053	mg/L	0.00029	0.0053	mg/L	0.00029	5.45%
Co 228.616†	19.7	0.0007	mg/L	0.00023	0.0007	mg/L	0.00023	31.88%
Cr 267.716†	35.1	0.0008	mg/L	0.00027	0.0008	mg/L	0.00027	34.94%
Cu 327.393†	3320.7	0.0328	mg/L	0.00052	0.0328	mg/L	0.00052	1.59%
Fe 238.204†	5256.6	1.550	mg/L	0.0298	1.550	mg/L	0.0298	1.92%
K 766.490†	8690.9	4.351	mg/L	0.1026	4.351	mg/L	0.1026	2.36%
Mg 285.213†	58493.2	5.542	mg/L	0.1134	5.542	mg/L	0.1134	2.05%
Mn 257.610†	3213.7	0.1409	mg/L	0.00408	0.1409	mg/L	0.00408	2.89%
Mo 202.031†	34.2	0.0017	mg/L	0.00019	0.0017	mg/L	0.00019	10.90%
Na 589.592†	353548.6	37.78	mg/L	0.149	37.78	mg/L	0.149	0.39%
Ni 231.604†	49.3	0.0021	mg/L	0.00034	0.0021	mg/L	0.00034	16.32%
Pb 220.353†	1.7	0.0008	mg/L	0.00179	0.0008	mg/L	0.00179	229.94%
Sb 206.836†	1.3	0.0003	mg/L	0.00159	0.0003	mg/L	0.00159	631.19%
Se 196.026†	-10.9	-0.0061	mg/L	0.00294	-0.0061	mg/L	0.00294	48.22%
Sn 189.927†	-180.7	-0.0299	mg/L	0.00344	-0.0299	mg/L	0.00344	11.50%

Ti 337.279†	80.4	0.0044 mg/L	0.00094	0.0044 mg/L	0.00094	21.53%
Tl 351.924†	-41.9	-0.0130 mg/L	0.00478	-0.0130 mg/L	0.00478	36.75%
V 290.880†	229.1	0.0033 mg/L	0.00067	0.0033 mg/L	0.00067	20.05%
Zn 206.200†	297.7	0.0123 mg/L	0.00024	0.0123 mg/L	0.00024	1.96%
Zr 343.823†	55.2	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	53.66%

Batch ID: OPTIMA 3

Sequence No.: 39

Sample ID: 24D0735-10

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 60

Date Collected: 4/18/2024 4:59:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	152868.2	99.6 %		0.49	99.6 %	0.49	0.49%
Y axial	2008713.4	98.6 %		1.87	98.6 %	1.87	1.90%
Ag 328.068†	35.0	0.0008 mg/L		0.00053	0.0008 mg/L	0.00053	66.15%
Al 396.153†	6297.6	1.692 mg/L		0.0027	1.692 mg/L	0.0027	0.16%
As 188.979†	2.2	0.0027 mg/L		0.00240	0.0027 mg/L	0.00240	89.52%
B 208.889†	75.3	0.0108 mg/L		0.00201	0.0108 mg/L	0.00201	18.58%
Ba 233.527†	113.9	0.0329 mg/L		0.00186	0.0329 mg/L	0.00186	5.66%
Be 313.107†	34.6	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	27.07%
Ca 317.933†	47367.9	8.234 mg/L		0.0130	8.234 mg/L	0.0130	0.16%
Cd 228.802†	106.8	0.0037 mg/L		0.00038	0.0037 mg/L	0.00038	10.28%
Co 228.616†	70.0	0.0023 mg/L		0.00041	0.0023 mg/L	0.00041	17.31%
Cr 267.716†	353.0	0.0076 mg/L		0.00010	0.0076 mg/L	0.00010	1.37%
Cu 327.393†	3947.0	0.0391 mg/L		0.00149	0.0391 mg/L	0.00149	3.81%
Fe 238.204†	13087.2	3.859 mg/L		0.0149	3.859 mg/L	0.0149	0.39%
K 766.490†	1926.9	0.9640 mg/L		0.01589	0.9640 mg/L	0.01589	1.65%
Mg 285.213†	20776.0	1.972 mg/L		0.0022	1.972 mg/L	0.0022	0.11%
Mn 257.610†	1957.0	0.0859 mg/L		0.00064	0.0859 mg/L	0.00064	0.74%
Mo 202.031†	17.4	0.0013 mg/L		0.00057	0.0013 mg/L	0.00057	42.72%
Na 589.592†	96462.5	10.31 mg/L		0.034	10.31 mg/L	0.034	0.33%
Ni 231.604†	179.7	0.0075 mg/L		0.00066	0.0075 mg/L	0.00066	8.71%
Pb 220.353†	29.8	0.0083 mg/L		0.00209	0.0083 mg/L	0.00209	25.08%
Sb 206.836†	4.0	0.0015 mg/L		0.00270	0.0015 mg/L	0.00270	176.14%
Se 196.026†	-7.1	-0.0001 mg/L		0.00116	-0.0001 mg/L	0.00116	>999.9%
Sn 189.927†	-63.6	-0.0106 mg/L		0.00027	-0.0106 mg/L	0.00027	2.59%
Ti 337.279†	1604.6	0.0870 mg/L		0.00245	0.0870 mg/L	0.00245	2.82%
Tl 351.924†	-5.9	-0.0016 mg/L		0.00140	-0.0016 mg/L	0.00140	88.19%
V 290.880†	666.5	0.0103 mg/L		0.00038	0.0103 mg/L	0.00038	3.71%
Zn 206.200†	3499.4	0.1839 mg/L		0.00545	0.1839 mg/L	0.00545	2.96%
Zr 343.823†	131.0	0.0008 mg/L		0.00021	0.0008 mg/L	0.00021	27.20%

Batch ID: OPTIMA 3

Sequence No.: 40

Sample ID: 24D0735-11

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 61

Date Collected: 4/18/2024 5:07:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	150722.9	98.3 %		1.96	98.3 %	1.96	2.00%
Y axial	2023436.0	99.3 %		1.25	99.3 %	1.25	1.26%
Ag 328.068†	-14.6	-0.0003 mg/L		0.00079	-0.0003 mg/L	0.00079	270.92%
Al 396.153†	303.2	0.0781 mg/L		0.00331	0.0781 mg/L	0.00331	4.24%
As 188.979†	6.4	0.0056 mg/L		0.00233	0.0056 mg/L	0.00233	41.66%
B 208.889†	192.4	0.0278 mg/L		0.00116	0.0278 mg/L	0.00116	4.17%
Ba 233.527†	50.5	0.0147 mg/L		0.00140	0.0147 mg/L	0.00140	9.56%
Be 313.107†	6.1	0.0000 mg/L		0.00003	0.0000 mg/L	0.00003	156.31%

Ca 317.933†	114908.7	19.98 mg/L	0.042	19.98 mg/L	0.042	0.21%
Cd 228.802†	1.7	-0.0000 mg/L	0.00035	-0.0000 mg/L	0.00035	>999.9%
Co 228.616†	6.5	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	78.19%
Cr 267.716†	6.2	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	29.14%
Cu 327.393†	965.9	0.0095 mg/L	0.00028	0.0095 mg/L	0.00028	2.90%
Fe 238.204†	272.8	0.0804 mg/L	0.00135	0.0804 mg/L	0.00135	1.68%
K 766.490†	3050.5	1.527 mg/L	0.0403	1.527 mg/L	0.0403	2.64%
Mg 285.213†	64573.7	6.121 mg/L	0.0071	6.121 mg/L	0.0071	0.12%
Mn 257.610†	36.9	0.0016 mg/L	0.00036	0.0016 mg/L	0.00036	22.14%
Mo 202.031†	24.9	0.0012 mg/L	0.00081	0.0012 mg/L	0.00081	67.15%
Na 589.592†	121551.2	12.99 mg/L	0.019	12.99 mg/L	0.019	0.15%
Ni 231.604†	39.2	0.0016 mg/L	0.00040	0.0016 mg/L	0.00040	24.56%
Pb 220.353†	-0.5	0.0001 mg/L	0.00225	0.0001 mg/L	0.00225	>999.9%
Sb 206.836†	1.8	0.0005 mg/L	0.00366	0.0005 mg/L	0.00366	701.61%
Se 196.026†	-6.6	-0.0048 mg/L	0.00527	-0.0048 mg/L	0.00527	110.85%
Sn 189.927†	-194.6	-0.0324 mg/L	0.00042	-0.0324 mg/L	0.00042	1.30%
Ti 337.279†	44.1	0.0024 mg/L	0.00056	0.0024 mg/L	0.00056	23.25%
Tl 351.924†	9.6	0.0024 mg/L	0.00819	0.0024 mg/L	0.00819	346.83%
V 290.880†	27.6	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	64.95%
Zn 206.200†	173.9	0.0081 mg/L	0.00053	0.0081 mg/L	0.00053	6.52%
Zr 343.823†	80.7	0.0005 mg/L	0.00019	0.0005 mg/L	0.00019	40.43%

Batch ID: OPTIMA 3

Sequence No.: 41

Sample ID: 24D0735-12

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 62

Date Collected: 4/18/2024 5:14:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152458.8	99.4	%	2.22	99.4	%	2.22	2.23%
Y axial	1987490.1	97.6	%	1.47	97.6	%	1.47	1.50%
Ag 328.068†	-56.1	-0.0011 mg/L		0.00061	-0.0011 mg/L		0.00061	56.36%
Al 396.153†	56.8	0.0132 mg/L		0.00696	0.0132 mg/L		0.00696	52.66%
As 188.979†	4.2	0.0041 mg/L		0.00311	0.0041 mg/L		0.00311	76.62%
B 208.889†	233.7	0.0338 mg/L		0.00058	0.0338 mg/L		0.00058	1.71%
Ba 233.527†	140.9	0.0408 mg/L		0.00080	0.0408 mg/L		0.00080	1.97%
Be 313.107†	38.4	0.0001 mg/L		0.00002	0.0001 mg/L		0.00002	16.89%
Ca 317.933†	71425.0	12.42 mg/L		0.235	12.42 mg/L		0.235	1.89%
Cd 228.802†	7.6	0.0002 mg/L		0.00004	0.0002 mg/L		0.00004	15.60%
Co 228.616†	35.8	0.0013 mg/L		0.00045	0.0013 mg/L		0.00045	34.25%
Cr 267.716†	7.6	0.0002 mg/L		0.00035	0.0002 mg/L		0.00035	166.61%
Cu 327.393†	586.4	0.0059 mg/L		0.00008	0.0059 mg/L		0.00008	1.31%
Fe 238.204†	8162.3	2.407 mg/L		0.0424	2.407 mg/L		0.0424	1.76%
K 766.490†	2875.6	1.439 mg/L		0.0548	1.439 mg/L		0.0548	3.81%
Mg 285.213†	57599.3	5.463 mg/L		0.0997	5.463 mg/L		0.0997	1.82%
Mn 257.610†	3012.2	0.1321 mg/L		0.00260	0.1321 mg/L		0.00260	1.97%
Mo 202.031†	13.7	0.0008 mg/L		0.00051	0.0008 mg/L		0.00051	61.36%
Na 589.592†	343097.2	36.66 mg/L		0.689	36.66 mg/L		0.689	1.88%
Ni 231.604†	47.9	0.0020 mg/L		0.00056	0.0020 mg/L		0.00056	27.80%
Pb 220.353†	-7.3	-0.0020 mg/L		0.00067	-0.0020 mg/L		0.00067	33.74%
Sb 206.836†	3.6	0.0014 mg/L		0.00263	0.0014 mg/L		0.00263	184.39%
Se 196.026†	-7.7	-0.0025 mg/L		0.00436	-0.0025 mg/L		0.00436	176.21%
Sn 189.927†	-175.3	-0.0295 mg/L		0.00095	-0.0295 mg/L		0.00095	3.24%
Ti 337.279†	0.8	0.0000 mg/L		0.00101	0.0000 mg/L		0.00101	>999.9%
Tl 351.924†	-42.0	-0.0126 mg/L		0.01562	-0.0126 mg/L		0.01562	124.13%
V 290.880†	33.3	0.0001 mg/L		0.00051	0.0001 mg/L		0.00051	459.58%
Zn 206.200†	126.9	0.0033 mg/L		0.00038	0.0033 mg/L		0.00038	11.36%
Zr 343.823†	41.4	0.0002 mg/L		0.00007	0.0002 mg/L		0.00007	29.90%

Batch ID: OPTIMA 3

Sequence No.: 42

Sample ID: 24D0735-13

Analyst:

Autosampler Location: 63

Date Collected: 4/18/2024 5:22:36 PM

Data Type: Original

Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24D0735-13

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151210.6	98.6	%	0.59	98.6	%	0.59	0.60%
Y axial	1997319.9	98.0	%	2.69	98.0	%	2.69	2.74%
Ag 328.068†	-67.0	-0.0014	mg/L	0.00113	-0.0014	mg/L	0.00113	78.43%
Al 396.153†	297.2	0.0772	mg/L	0.00791	0.0772	mg/L	0.00791	10.24%
As 188.979†	6.2	0.0054	mg/L	0.00292	0.0054	mg/L	0.00292	54.43%
B 208.889†	169.9	0.0246	mg/L	0.00166	0.0246	mg/L	0.00166	6.77%
Ba 233.527†	44.4	0.0129	mg/L	0.00045	0.0129	mg/L	0.00045	3.47%
Be 313.107†	15.9	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	84.61%
Ca 317.933†	91875.0	15.97	mg/L	0.056	15.97	mg/L	0.056	0.35%
Cd 228.802†	835.6	0.0291	mg/L	0.00107	0.0291	mg/L	0.00107	3.65%
Co 228.616†	9.9	0.0004	mg/L	0.00026	0.0004	mg/L	0.00026	72.52%
Cr 267.716†	196.5	0.0040	mg/L	0.00022	0.0040	mg/L	0.00022	5.52%
Cu 327.393†	1082.9	0.0107	mg/L	0.00117	0.0107	mg/L	0.00117	10.96%
Fe 238.204†	512.1	0.1510	mg/L	0.00254	0.1510	mg/L	0.00254	1.68%
K 766.490†	4104.0	2.055	mg/L	0.0268	2.055	mg/L	0.0268	1.30%
Mg 285.213†	18411.9	1.742	mg/L	0.0064	1.742	mg/L	0.0064	0.37%
Mn 257.610†	11420.4	0.5006	mg/L	0.00115	0.5006	mg/L	0.00115	0.23%
Mo 202.031†	10.8	0.0003	mg/L	0.00057	0.0003	mg/L	0.00057	168.80%
Na 589.592†	99313.9	10.61	mg/L	0.037	10.61	mg/L	0.037	0.35%
Ni 231.604†	32.4	0.0013	mg/L	0.00079	0.0013	mg/L	0.00079	60.79%
Pb 220.353†	15.7	0.0045	mg/L	0.00185	0.0045	mg/L	0.00185	41.09%
Sb 206.836†	5.8	0.0028	mg/L	0.00155	0.0028	mg/L	0.00155	55.18%
Se 196.026†	-1.7	-0.0018	mg/L	0.00043	-0.0018	mg/L	0.00043	24.28%
Sn 189.927†	-62.8	-0.0105	mg/L	0.00104	-0.0105	mg/L	0.00104	9.87%
Ti 337.279†	67.0	0.0036	mg/L	0.00112	0.0036	mg/L	0.00112	30.78%
Tl 351.924†	-10.6	-0.0035	mg/L	0.00361	-0.0035	mg/L	0.00361	104.24%
V 290.880†	-2.5	-0.0001	mg/L	0.00053	-0.0001	mg/L	0.00053	516.59%
Zn 206.200†	78.7	0.0033	mg/L	0.00024	0.0033	mg/L	0.00024	7.21%
Zr 343.823†	38.5	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	74.67%

Batch ID: OPTIMA 3

Sequence No.: 43

Sample ID: 24D0735-14

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 64

Date Collected: 4/18/2024 5:30:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150553.7	98.1	%	2.32	98.1	%	2.32	2.37%
Y axial	2006520.9	98.5	%	1.73	98.5	%	1.73	1.75%
Ag 328.068†	-76.3	-0.0016	mg/L	0.00068	-0.0016	mg/L	0.00068	43.41%
Al 396.153†	138.4	0.0344	mg/L	0.00249	0.0344	mg/L	0.00249	7.26%
As 188.979†	2.2	0.0019	mg/L	0.00283	0.0019	mg/L	0.00283	152.07%
B 208.889†	55.0	0.0079	mg/L	0.00042	0.0079	mg/L	0.00042	5.28%
Ba 233.527†	28.1	0.0081	mg/L	0.00079	0.0081	mg/L	0.00079	9.69%
Be 313.107†	-5.5	-0.0000	mg/L	0.00007	-0.0000	mg/L	0.00007	373.22%
Ca 317.933†	95286.7	16.57	mg/L	0.077	16.57	mg/L	0.077	0.46%
Cd 228.802†	0.3	-0.0000	mg/L	0.00031	-0.0000	mg/L	0.00031	>999.9%
Co 228.616†	5.1	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	83.20%
Cr 267.716†	50.8	0.0010	mg/L	0.00022	0.0010	mg/L	0.00022	22.12%
Cu 327.393†	670.6	0.0066	mg/L	0.00040	0.0066	mg/L	0.00040	6.07%
Fe 238.204†	210.5	0.0621	mg/L	0.00196	0.0621	mg/L	0.00196	3.16%
K 766.490†	1675.1	0.8386	mg/L	0.03012	0.8386	mg/L	0.03012	3.59%
Mg 285.213†	18574.4	1.758	mg/L	0.0091	1.758	mg/L	0.0091	0.52%
Mn 257.610†	4375.7	0.1918	mg/L	0.00123	0.1918	mg/L	0.00123	0.64%
Mo 202.031†	21.2	0.0010	mg/L	0.00034	0.0010	mg/L	0.00034	32.36%
Na 589.592†	52098.9	5.567	mg/L	0.0187	5.567	mg/L	0.0187	0.34%

Ni 231.604†	29.1	0.0012 mg/L	0.00055	0.0012 mg/L	0.00055	46.02%
Pb 220.353†	0.6	0.0004 mg/L	0.00080	0.0004 mg/L	0.00080	218.01%
Sb 206.836†	-0.8	-0.0006 mg/L	0.00168	-0.0006 mg/L	0.00168	289.20%
Se 196.026†	-0.5	-0.0010 mg/L	0.00265	-0.0010 mg/L	0.00265	275.76%
Sn 189.927†	-70.6	-0.0123 mg/L	0.00041	-0.0123 mg/L	0.00041	3.30%
Ti 337.279†	40.7	0.0022 mg/L	0.00222	0.0022 mg/L	0.00222	100.61%
Tl 351.924†	-5.4	-0.0020 mg/L	0.00572	-0.0020 mg/L	0.00572	285.64%
V 290.880†	-11.8	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	54.72%
Zn 206.200†	123.8	0.0061 mg/L	0.00025	0.0061 mg/L	0.00025	4.08%
Zr 343.823†	30.1	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.90%

Batch ID: OPTIMA 3

Sequence No.: 44

Sample ID: 24D0735-15

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 65

Date Collected: 4/18/2024 5:38:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	152602.4	99.5 %		0.70	99.5 %	0.70	0.70%
Y axial	1985881.8	97.5 %		1.07	97.5 %	1.07	1.10%
Ag 328.068†	-71.6	-0.0014 mg/L		0.00093	-0.0014 mg/L	0.00093	64.59%
Al 396.153†	164.4	0.0382 mg/L		0.01144	0.0382 mg/L	0.01144	29.92%
As 188.979†	1.4	0.0012 mg/L		0.00137	0.0012 mg/L	0.00137	110.17%
B 208.889†	151.6	0.0218 mg/L		0.00046	0.0218 mg/L	0.00046	2.10%
Ba 233.527†	164.5	0.0477 mg/L		0.00125	0.0477 mg/L	0.00125	2.62%
Be 313.107†	-5.9	-0.0000 mg/L		0.00005	-0.0000 mg/L	0.00005	205.56%
Ca 317.933†	198260.1	34.47 mg/L		0.404	34.47 mg/L	0.404	1.17%
Cd 228.802†	125.0	0.0044 mg/L		0.00020	0.0044 mg/L	0.00020	4.59%
Co 228.616†	6.1	0.0002 mg/L		0.00013	0.0002 mg/L	0.00013	55.23%
Cr 267.716†	19.5	0.0004 mg/L		0.00018	0.0004 mg/L	0.00018	42.56%
Cu 327.393†	640.2	0.0063 mg/L		0.00065	0.0063 mg/L	0.00065	10.24%
Fe 238.204†	200.5	0.0591 mg/L		0.00035	0.0591 mg/L	0.00035	0.59%
K 766.490†	6494.7	3.251 mg/L		0.0541	3.251 mg/L	0.0541	1.66%
Mg 285.213†	46550.8	4.407 mg/L		0.0060	4.407 mg/L	0.0060	0.14%
Mn 257.610†	86.5	0.0038 mg/L		0.00036	0.0038 mg/L	0.00036	9.52%
Mo 202.031†	36.2	0.0016 mg/L		0.00023	0.0016 mg/L	0.00023	14.59%
Na 589.592†	510940.2	54.60 mg/L		0.382	54.60 mg/L	0.382	0.70%
Ni 231.604†	36.6	0.0015 mg/L		0.00026	0.0015 mg/L	0.00026	17.07%
Pb 220.353†	-0.2	0.0004 mg/L		0.00076	0.0004 mg/L	0.00076	183.02%
Sb 206.836†	0.8	0.0001 mg/L		0.00183	0.0001 mg/L	0.00183	>999.9%
Se 196.026†	-2.2	-0.0026 mg/L		0.00617	-0.0026 mg/L	0.00617	235.20%
Sn 189.927†	-155.2	-0.0260 mg/L		0.00186	-0.0260 mg/L	0.00186	7.13%
Ti 337.279†	22.2	0.0012 mg/L		0.00020	0.0012 mg/L	0.00020	16.19%
Tl 351.924†	4.7	0.0005 mg/L		0.01109	0.0005 mg/L	0.01109	>999.9%
V 290.880†	43.4	0.0005 mg/L		0.00055	0.0005 mg/L	0.00055	104.74%
Zn 206.200†	114.7	0.0013 mg/L		0.00025	0.0013 mg/L	0.00025	18.77%
Zr 343.823†	47.1	0.0003 mg/L		0.00017	0.0003 mg/L	0.00017	60.87%

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 5:42:54 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 5:43:05 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 5:43:29 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 45

Autosampler Location: 66

Sample ID: 24D0735-16

Date Collected: 4/18/2024 5:43:30 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

=====

Mean Data: 24D0735-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152558.3	99.4	%	1.11	99.4	%	1.11	1.12%
Y axial	1995448.5	97.9	%	0.96	97.9	%	0.96	0.98%
Ag 328.068†	-66.1	-0.0014	mg/L	0.00085	-0.0014	mg/L	0.00085	59.98%
Al 396.153†	197.1	0.0496	mg/L	0.00891	0.0496	mg/L	0.00891	17.98%
As 188.979†	5.8	0.0051	mg/L	0.00161	0.0051	mg/L	0.00161	31.34%
B 208.889†	197.9	0.0286	mg/L	0.00069	0.0286	mg/L	0.00069	2.42%
Ba 233.527†	92.0	0.0266	mg/L	0.00123	0.0266	mg/L	0.00123	4.61%
Be 313.107†	-2.1	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	301.60%
Ca 317.933†	114756.1	19.95	mg/L	0.030	19.95	mg/L	0.030	0.15%
Cd 228.802†	173.7	0.0060	mg/L	0.00015	0.0060	mg/L	0.00015	2.54%
Co 228.616†	145.0	0.0052	mg/L	0.00013	0.0052	mg/L	0.00013	2.51%
Cr 267.716†	110.3	0.0022	mg/L	0.00014	0.0022	mg/L	0.00014	6.44%
Cu 327.393†	745.3	0.0074	mg/L	0.00046	0.0074	mg/L	0.00046	6.22%
Fe 238.204†	2892.3	0.8529	mg/L	0.00920	0.8529	mg/L	0.00920	1.08%
K 766.490†	4418.8	2.212	mg/L	0.0494	2.212	mg/L	0.0494	2.23%
Mg 285.213†	30474.3	2.886	mg/L	0.0806	2.886	mg/L	0.0806	2.79%
Mn 257.610†	13021.6	0.5708	mg/L	0.01574	0.5708	mg/L	0.01574	2.76%
Mo 202.031†	18.9	0.0009	mg/L	0.00042	0.0009	mg/L	0.00042	49.29%
Na 589.592†	295743.8	31.60	mg/L	0.110	31.60	mg/L	0.110	0.35%
Ni 231.604†	80.4	0.0033	mg/L	0.00046	0.0033	mg/L	0.00046	13.94%
Pb 220.353†	-6.8	-0.0017	mg/L	0.00133	-0.0017	mg/L	0.00133	76.29%
Sb 206.836†	-2.2	-0.0014	mg/L	0.00372	-0.0014	mg/L	0.00372	264.95%

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151730.9	98.9	%	1.68	98.9	%	1.68	1.70%
Y axial	1978056.0	97.1	%	1.35	97.1	%	1.35	1.39%
Ag 328.068†	109301.5	2.188	mg/L	0.0468	2.188	mg/L	0.0468	2.14%
QC value	less than the	lower limit	for Ag 328.068	Recovery =	87.53%			
Al 396.153†	38142.2	10.03	mg/L	0.047	10.03	mg/L	0.047	0.47%
QC value	within limits	for Al 396.153	Recovery =	100.29%				

As	188.979†	5848.2	5.098 mg/L	0.1581	5.098 mg/L	0.1581	3.10%
	QC value within limits for As 188.979		Recovery = 101.95%				
B	208.889†	34335.0	4.732 mg/L	0.1632	4.732 mg/L	0.1632	3.45%
	QC value within limits for B 208.889		Recovery = 94.65%				
Ba	233.527†	17186.1	4.983 mg/L	0.1245	4.983 mg/L	0.1245	2.50%
	QC value within limits for Ba 233.527		Recovery = 99.66%				
Be	313.107†	1372750.2	5.021 mg/L	0.1314	5.021 mg/L	0.1314	2.62%
	QC value within limits for Be 313.107		Recovery = 100.42%				
Ca	317.933†	56347.6	9.795 mg/L	0.0049	9.795 mg/L	0.0049	0.05%
	QC value within limits for Ca 317.933		Recovery = 97.95%				
Cd	228.802†	145176.4	5.030 mg/L	0.0129	5.030 mg/L	0.0129	0.26%
	QC value within limits for Cd 228.802		Recovery = 100.61%				
Co	228.616†	141769.8	5.073 mg/L	0.0094	5.073 mg/L	0.0094	0.19%
	QC value within limits for Co 228.616		Recovery = 101.47%				
Cr	267.716†	239781.2	5.090 mg/L	0.0045	5.090 mg/L	0.0045	0.09%
	QC value within limits for Cr 267.716		Recovery = 101.79%				
Cu	327.393†	496725.1	4.902 mg/L	0.0030	4.902 mg/L	0.0030	0.06%
	QC value within limits for Cu 327.393		Recovery = 98.03%				
Fe	238.204†	16999.1	5.057 mg/L	0.0150	5.057 mg/L	0.0150	0.30%
	QC value within limits for Fe 238.204		Recovery = 101.15%				
K	766.490†	20262.0	10.14 mg/L	0.054	10.14 mg/L	0.054	0.54%
	QC value within limits for K 766.490		Recovery = 101.43%				
Mg	285.213†	108247.3	10.27 mg/L	0.033	10.27 mg/L	0.033	0.32%
	QC value within limits for Mg 285.213		Recovery = 102.75%				
Mn	257.610†	113982.4	4.998 mg/L	0.0115	4.998 mg/L	0.0115	0.23%
	QC value within limits for Mn 257.610		Recovery = 99.97%				
Mo	202.031†	70334.0	4.901 mg/L	0.0094	4.901 mg/L	0.0094	0.19%
	QC value within limits for Mo 202.031		Recovery = 98.03%				
Na	589.592†	94238.4	10.07 mg/L	0.036	10.07 mg/L	0.036	0.35%
	QC value within limits for Na 589.592		Recovery = 100.71%				
Ni	231.604†	115407.2	4.848 mg/L	0.0122	4.848 mg/L	0.0122	0.25%
	QC value within limits for Ni 231.604		Recovery = 96.96%				
Pb	220.353†	18098.0	5.022 mg/L	0.1487	5.022 mg/L	0.1487	2.96%
	QC value within limits for Pb 220.353		Recovery = 100.43%				
Sb	206.836†	9733.4	5.082 mg/L	0.1653	5.082 mg/L	0.1653	3.25%
	QC value within limits for Sb 206.836		Recovery = 101.63%				
Se	196.026†	8271.0	5.139 mg/L	0.1798	5.139 mg/L	0.1798	3.50%
	QC value within limits for Se 196.026		Recovery = 102.78%				
Sn	189.927†	22553.4	5.194 mg/L	0.1553	5.194 mg/L	0.1553	2.99%
	QC value within limits for Sn 189.927		Recovery = 103.87%				
Ti	337.279†	91912.5	4.986 mg/L	0.0096	4.986 mg/L	0.0096	0.19%
	QC value within limits for Ti 337.279		Recovery = 99.72%				
Tl	351.924†	8734.1	2.601 mg/L	0.0704	2.601 mg/L	0.0704	2.71%
	QC value within limits for Tl 351.924		Recovery = 104.05%				
V	290.880†	312529.3	5.129 mg/L	0.0077	5.129 mg/L	0.0077	0.15%
	QC value within limits for V 290.880		Recovery = 102.57%				
Zn	206.200†	93299.7	4.980 mg/L	0.0158	4.980 mg/L	0.0158	0.32%
	QC value within limits for Zn 206.200		Recovery = 99.60%				
Zr	343.823†	836553.1	4.851 mg/L	0.0043	4.851 mg/L	0.0043	0.09%
QC Failed. Continue with analysis.							

Batch ID: OPTIMA 3

Sequence No.: 48

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 6:05:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150097.2	97.8 %	1.97	97.8 %	1.97	2.01%
Y axial	2037640.8	100 %	1.36	100 %	1.36	1.36%
Ag 328.068†	969.0	0.0194 mg/L	0.00155	0.0194 mg/L	0.00155	7.99%
	QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated					
Al 396.153†	-32.0	-0.0087 mg/L	0.00586	-0.0087 mg/L	0.00586	67.71%
	QC value within limits for Al 396.153 Recovery = Not calculated					

As 188.979†	0.4	0.0003 mg/L	0.00241	0.0003 mg/L	0.00241	724.07%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	66.3	0.0095 mg/L	0.00111	0.0095 mg/L	0.00111	11.65%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	-0.2	-0.0001 mg/L	0.00211	-0.0001 mg/L	0.00211	>999.9%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	11.5	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	35.90%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	23.5	0.0041 mg/L	0.00303	0.0041 mg/L	0.00303	74.41%
QC value within limits for Ca 317.933			Recovery = Not calculated			
Cd 228.802†	9.5	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	12.39%
QC value within limits for Cd 228.802			Recovery = Not calculated			
Co 228.616†	17.1	0.0006 mg/L	0.00041	0.0006 mg/L	0.00041	66.49%
QC value within limits for Co 228.616			Recovery = Not calculated			
Cr 267.716†	-15.0	-0.0003 mg/L	0.00013	-0.0003 mg/L	0.00013	42.38%
QC value within limits for Cr 267.716			Recovery = Not calculated			
Cu 327.393†	103.7	0.0010 mg/L	0.00054	0.0010 mg/L	0.00054	52.48%
QC value within limits for Cu 327.393			Recovery = Not calculated			
Fe 238.204†	3.5	0.0010 mg/L	0.00053	0.0010 mg/L	0.00053	50.45%
QC value within limits for Fe 238.204			Recovery = Not calculated			
K 766.490†	95.6	0.0478 mg/L	0.03924	0.0478 mg/L	0.03924	82.03%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	9.0	0.0009 mg/L	0.00106	0.0009 mg/L	0.00106	124.10%
QC value within limits for Mg 285.213			Recovery = Not calculated			
Mn 257.610†	-3.1	-0.0001 mg/L	0.00041	-0.0001 mg/L	0.00041	304.72%
QC value within limits for Mn 257.610			Recovery = Not calculated			
Mo 202.031†	17.9	0.0012 mg/L	0.00010	0.0012 mg/L	0.00010	8.29%
QC value within limits for Mo 202.031			Recovery = Not calculated			
Na 589.592†	64.9	0.0069 mg/L	0.00307	0.0069 mg/L	0.00307	44.28%
QC value within limits for Na 589.592			Recovery = Not calculated			
Ni 231.604†	26.9	0.0011 mg/L	0.00041	0.0011 mg/L	0.00041	35.83%
QC value within limits for Ni 231.604			Recovery = Not calculated			
Pb 220.353†	-2.8	-0.0008 mg/L	0.00043	-0.0008 mg/L	0.00043	55.16%
QC value within limits for Pb 220.353			Recovery = Not calculated			
Sb 206.836†	-2.1	-0.0011 mg/L	0.00187	-0.0011 mg/L	0.00187	166.59%
QC value within limits for Sb 206.836			Recovery = Not calculated			
Se 196.026†	10.5	0.0065 mg/L	0.00331	0.0065 mg/L	0.00331	50.54%
QC value within limits for Se 196.026			Recovery = Not calculated			
Sn 189.927†	-0.7	-0.0002 mg/L	0.00054	-0.0002 mg/L	0.00054	354.66%
QC value within limits for Sn 189.927			Recovery = Not calculated			
Ti 337.279†	-2.0	-0.0001 mg/L	0.00183	-0.0001 mg/L	0.00183	>999.9%
QC value within limits for Ti 337.279			Recovery = Not calculated			
Tl 351.924†	-14.5	-0.0043 mg/L	0.00184	-0.0043 mg/L	0.00184	43.25%
QC value within limits for Tl 351.924			Recovery = Not calculated			
V 290.880†	-55.7	-0.0009 mg/L	0.00039	-0.0009 mg/L	0.00039	45.22%
QC value within limits for V 290.880			Recovery = Not calculated			
Zn 206.200†	12.8	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	14.89%
QC value within limits for Zn 206.200			Recovery = Not calculated			
Zr 343.823†	17.4	0.0001 mg/L	0.00049	0.0001 mg/L	0.00049	487.30%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 49

Sample ID: B371351-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 68

Date Collected: 4/18/2024 6:11:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	146880.6	95.7 %	1.09	95.7 %	1.09	1.13%
Y axial	1983744.9	97.4 %	1.25	97.4 %	1.25	1.28%
Ag 328.068†	189.6	0.0038 mg/L	0.00126	0.0038 mg/L	0.00126	33.11%
Al 396.153†	-25.3	-0.0068 mg/L	0.00252	-0.0068 mg/L	0.00252	36.82%
As 188.979†	3.4	0.0029 mg/L	0.00180	0.0029 mg/L	0.00180	61.58%
B 208.889†	39.4	0.0057 mg/L	0.00075	0.0057 mg/L	0.00075	13.28%

Ba 233.527†	5.6	0.0016 mg/L	0.00159	0.0016 mg/L	0.00159	97.32%
Be 313.107†	11.2	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	60.93%
Ca 317.933†	130.7	0.0227 mg/L	0.00430	0.0227 mg/L	0.00430	18.95%
Cd 228.802†	12.1	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	52.81%
Co 228.616†	12.0	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	24.31%
Cr 267.716†	-2.0	-0.0000 mg/L	0.00019	-0.0000 mg/L	0.00019	439.26%
Cu 327.393†	440.5	0.0043 mg/L	0.00027	0.0043 mg/L	0.00027	6.12%
Fe 238.204†	4.3	0.0013 mg/L	0.00107	0.0013 mg/L	0.00107	83.90%
K 766.490†	101.1	0.0506 mg/L	0.03825	0.0506 mg/L	0.03825	75.58%
Mg 285.213†	24.7	0.0023 mg/L	0.00037	0.0023 mg/L	0.00037	15.65%
Mn 257.610†	-11.9	-0.0005 mg/L	0.00025	-0.0005 mg/L	0.00025	47.11%
Mo 202.031†	13.2	0.0009 mg/L	0.00044	0.0009 mg/L	0.00044	47.55%
Na 589.592†	153.8	0.0164 mg/L	0.00692	0.0164 mg/L	0.00692	42.07%
Ni 231.604†	26.7	0.0011 mg/L	0.00039	0.0011 mg/L	0.00039	35.03%
Pb 220.353†	-7.2	-0.0020 mg/L	0.00192	-0.0020 mg/L	0.00192	95.91%
Sb 206.836†	-2.8	-0.0014 mg/L	0.00098	-0.0014 mg/L	0.00098	68.91%
Se 196.026†	3.5	0.0022 mg/L	0.00141	0.0022 mg/L	0.00141	65.19%
Sn 189.927†	5.3	0.0012 mg/L	0.00109	0.0012 mg/L	0.00109	89.65%
Ti 337.279†	-46.3	-0.0025 mg/L	0.00137	-0.0025 mg/L	0.00137	54.44%
Tl 351.924†	-13.9	-0.0041 mg/L	0.00674	-0.0041 mg/L	0.00674	164.34%
V 290.880†	-44.6	-0.0007 mg/L	0.00041	-0.0007 mg/L	0.00041	58.87%
Zn 206.200†	29.7	0.0016 mg/L	0.00043	0.0016 mg/L	0.00043	27.60%
Zr 343.823†	26.3	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	25.16%

Batch ID: OPTIMA 3

Sequence No.: 50

Sample ID: B371351-BS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 69

Date Collected: 4/18/2024 6:17:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151342.2	98.7	%	2.20	98.7	2.20	2.23%
Y axial	1980382.9	97.2	%	1.50	97.2	1.50	1.54%
Ag 328.068†	32660.7	0.6540	mg/L	0.00756	0.6540	0.00756	1.16%
Al 396.153†	2036.4	0.5234	mg/L	0.01677	0.5234	0.01677	3.20%
As 188.979†	565.8	0.4936	mg/L	0.00946	0.4936	0.00946	1.92%
B 208.889†	6925.6	0.9776	mg/L	0.01882	0.9776	0.01882	1.92%
Ba 233.527†	1775.2	0.5145	mg/L	0.01162	0.5145	0.01162	2.26%
Be 313.107†	143454.2	0.5247	mg/L	0.00132	0.5247	0.00132	0.25%
Ca 317.933†	23390.6	4.065	mg/L	0.1179	4.065	0.1179	2.90%
Cd 228.802†	15197.7	0.5271	mg/L	0.00937	0.5271	0.00937	1.78%
Co 228.616†	14634.1	0.5237	mg/L	0.00572	0.5237	0.00572	1.09%
Cr 267.716†	24796.9	0.5265	mg/L	0.00578	0.5265	0.00578	1.10%
Cu 327.393†	103872.2	1.024	mg/L	0.0089	1.024	0.0089	0.87%
Fe 238.204†	14376.3	4.244	mg/L	0.1211	4.244	0.1211	2.85%
K 766.490†	8588.8	4.299	mg/L	0.0833	4.299	0.0833	1.94%
Mg 285.213†	44709.3	4.244	mg/L	0.0150	4.244	0.0150	0.35%
Mn 257.610†	11767.2	0.5161	mg/L	0.01365	0.5161	0.01365	2.64%
Mo 202.031†	7355.6	0.5128	mg/L	0.00880	0.5128	0.00880	1.72%
Na 589.592†	39222.8	4.192	mg/L	0.0130	4.192	0.0130	0.31%
Ni 231.604†	11963.9	0.5026	mg/L	0.00314	0.5026	0.00314	0.62%
Pb 220.353†	1837.3	0.5094	mg/L	0.00905	0.5094	0.00905	1.78%
Sb 206.836†	1006.8	0.5253	mg/L	0.01143	0.5253	0.01143	2.18%
Se 196.026†	821.8	0.5149	mg/L	0.01055	0.5149	0.01055	2.05%
Sn 189.927†	2155.6	0.5026	mg/L	0.00871	0.5026	0.00871	1.73%
Ti 337.279†	9472.7	0.5139	mg/L	0.01304	0.5139	0.01304	2.54%
Tl 351.924†	1797.9	0.5333	mg/L	0.01031	0.5333	0.01031	1.93%
V 290.880†	32313.3	0.5300	mg/L	0.00642	0.5300	0.00642	1.21%
Zn 206.200†	19312.6	1.025	mg/L	0.0154	1.025	0.0154	1.50%
Zr 343.823†	147.2	0.0009	mg/L	0.00007	0.0009	0.00007	8.05%

Batch ID: OPTIMA 3

Sequence No.: 51

Autosampler Location: 70

Sample ID: B371351-BSD1

Date Collected: 4/18/2024 6:24:49 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: B371351-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152394.1	99.3	%	1.76	99.3	%	1.76	1.77%
Y axial	2004843.2	98.4	%	0.78	98.4	%	0.78	0.80%
Ag 328.068†	32380.7	0.6484	mg/L	0.00817	0.6484	mg/L	0.00817	1.26%
Al 396.153†	2009.4	0.5164	mg/L	0.00789	0.5164	mg/L	0.00789	1.53%
As 188.979†	552.9	0.4823	mg/L	0.00514	0.4823	mg/L	0.00514	1.07%
B 208.889†	6834.7	0.9647	mg/L	0.00404	0.9647	mg/L	0.00404	0.42%
Ba 233.527†	1743.3	0.5053	mg/L	0.00248	0.5053	mg/L	0.00248	0.49%
Be 313.107†	142234.5	0.5203	mg/L	0.00153	0.5203	mg/L	0.00153	0.29%
Ca 317.933†	23179.0	4.029	mg/L	0.0686	4.029	mg/L	0.0686	1.70%
Cd 228.802†	14977.1	0.5195	mg/L	0.00088	0.5195	mg/L	0.00088	0.17%
Co 228.616†	14421.5	0.5161	mg/L	0.00591	0.5161	mg/L	0.00591	1.15%
Cr 267.716†	24317.6	0.5163	mg/L	0.00838	0.5163	mg/L	0.00838	1.62%
Cu 327.393†	102734.8	1.013	mg/L	0.0101	1.013	mg/L	0.0101	1.00%
Fe 238.204†	14174.4	4.184	mg/L	0.0712	4.184	mg/L	0.0712	1.70%
K 766.490†	8422.3	4.216	mg/L	0.0735	4.216	mg/L	0.0735	1.74%
Mg 285.213†	44102.5	4.187	mg/L	0.0135	4.187	mg/L	0.0135	0.32%
Mn 257.610†	11645.3	0.5107	mg/L	0.00816	0.5107	mg/L	0.00816	1.60%
Mo 202.031†	7273.2	0.5071	mg/L	0.00165	0.5071	mg/L	0.00165	0.33%
Na 589.592†	38985.9	4.166	mg/L	0.0109	4.166	mg/L	0.0109	0.26%
Ni 231.604†	11913.5	0.5004	mg/L	0.00508	0.5004	mg/L	0.00508	1.02%
Pb 220.353†	1825.4	0.5061	mg/L	0.00118	0.5061	mg/L	0.00118	0.23%
Sb 206.836†	989.1	0.5161	mg/L	0.00051	0.5161	mg/L	0.00051	0.10%
Se 196.026†	806.1	0.5051	mg/L	0.00395	0.5051	mg/L	0.00395	0.78%
Sn 189.927†	2111.9	0.4925	mg/L	0.00317	0.4925	mg/L	0.00317	0.64%
Ti 337.279†	9351.7	0.5073	mg/L	0.00845	0.5073	mg/L	0.00845	1.67%
Tl 351.924†	1760.1	0.5221	mg/L	0.00183	0.5221	mg/L	0.00183	0.35%
V 290.880†	31904.9	0.5233	mg/L	0.00641	0.5233	mg/L	0.00641	1.22%
Zn 206.200†	19241.6	1.021	mg/L	0.0140	1.021	mg/L	0.0140	1.37%
Zr 343.823†	88.2	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	18.48%

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Batch ID: OPTIMA 3

Sequence No.: 52

Autosampler Location: 71

Sample ID: B371351-MS1

Date Collected: 4/18/2024 6:32:37 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: B371351-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152230.8	99.2	%	1.02	99.2	%	1.02	1.03%
Y axial	1993522.2	97.9	%	1.10	97.9	%	1.10	1.12%
Ag 328.068†	31822.6	0.6372	mg/L	0.01428	0.6372	mg/L	0.01428	2.24%
Al 396.153†	2319.0	0.5981	mg/L	0.01052	0.5981	mg/L	0.01052	1.76%
As 188.979†	551.8	0.4814	mg/L	0.00434	0.4814	mg/L	0.00434	0.90%
B 208.889†	7127.3	1.007	mg/L	0.0103	1.007	mg/L	0.0103	1.02%
Ba 233.527†	1794.7	0.5202	mg/L	0.00687	0.5202	mg/L	0.00687	1.32%
Be 313.107†	140961.6	0.5156	mg/L	0.00117	0.5156	mg/L	0.00117	0.23%
Ca 317.933†	80191.9	13.94	mg/L	0.035	13.94	mg/L	0.035	0.25%
Cd 228.802†	14703.9	0.5099	mg/L	0.00658	0.5099	mg/L	0.00658	1.29%
Co 228.616†	14149.8	0.5064	mg/L	0.00555	0.5064	mg/L	0.00555	1.10%
Cr 267.716†	24462.0	0.5194	mg/L	0.00850	0.5194	mg/L	0.00850	1.64%
Cu 327.393†	102131.1	1.007	mg/L	0.0121	1.007	mg/L	0.0121	1.20%
Fe 238.204†	14724.4	4.346	mg/L	0.0409	4.346	mg/L	0.0409	0.94%
K 766.490†	10647.8	5.330	mg/L	0.0946	5.330	mg/L	0.0946	1.77%
Mg 285.213†	88799.9	8.424	mg/L	0.0225	8.424	mg/L	0.0225	0.27%
Mn 257.610†	11605.8	0.5090	mg/L	0.00459	0.5090	mg/L	0.00459	0.90%

Mo 202.031†	7218.4	0.5030 mg/L	0.00624	0.5030 mg/L	0.00624	1.24%
Na 589.592†	101307.4	10.83 mg/L	0.021	10.83 mg/L	0.021	0.20%
Ni 231.604†	11802.9	0.4958 mg/L	0.00801	0.4958 mg/L	0.00801	1.62%
Pb 220.353†	1787.1	0.4956 mg/L	0.00456	0.4956 mg/L	0.00456	0.92%
Sb 206.836†	983.8	0.5131 mg/L	0.00378	0.5131 mg/L	0.00378	0.74%
Se 196.026†	787.3	0.4932 mg/L	0.00234	0.4932 mg/L	0.00234	0.47%
Sn 189.927†	1998.7	0.4749 mg/L	0.00571	0.4749 mg/L	0.00571	1.20%
Ti 337.279†	9311.1	0.5051 mg/L	0.00479	0.5051 mg/L	0.00479	0.95%
Tl 351.924†	1752.5	0.5196 mg/L	0.00719	0.5196 mg/L	0.00719	1.38%
V 290.880†	31781.9	0.5210 mg/L	0.00593	0.5210 mg/L	0.00593	1.14%
Zn 206.200†	19104.5	1.013 mg/L	0.0140	1.013 mg/L	0.0140	1.38%
Zr 343.823†	69.9	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	15.23%

Batch ID: OPTIMA 3

Sequence No.: 53

Sample ID: B371351-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 72

Date Collected: 4/18/2024 6:40:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150655.6	98.2	%	1.20	98.2	%	1.20	1.22%
Y axial	1982972.4	97.3	%	2.35	97.3	%	2.35	2.42%
Ag 328.068†	32342.0	0.6476	mg/L	0.01434	0.6476	mg/L	0.01434	2.21%
Al 396.153†	2336.2	0.6024	mg/L	0.00978	0.6024	mg/L	0.00978	1.62%
As 188.979†	556.2	0.4853	mg/L	0.01725	0.4853	mg/L	0.01725	3.55%
B 208.889†	7213.4	1.019	mg/L	0.0239	1.019	mg/L	0.0239	2.35%
Ba 233.527†	1832.5	0.5312	mg/L	0.01377	0.5312	mg/L	0.01377	2.59%
Be 313.107†	143545.9	0.5250	mg/L	0.01266	0.5250	mg/L	0.01266	2.41%
Ca 317.933†	82274.3	14.30	mg/L	0.330	14.30	mg/L	0.330	2.31%
Cd 228.802†	14886.2	0.5162	mg/L	0.01329	0.5162	mg/L	0.01329	2.57%
Co 228.616†	14329.0	0.5128	mg/L	0.01325	0.5128	mg/L	0.01325	2.58%
Cr 267.716†	25258.5	0.5363	mg/L	0.02084	0.5363	mg/L	0.02084	3.89%
Cu 327.393†	105611.6	1.041	mg/L	0.0352	1.041	mg/L	0.0352	3.39%
Fe 238.204†	14967.0	4.418	mg/L	0.0436	4.418	mg/L	0.0436	0.99%
K 766.490†	10768.5	5.390	mg/L	0.1219	5.390	mg/L	0.1219	2.26%
Mg 285.213†	90628.0	8.598	mg/L	0.1935	8.598	mg/L	0.1935	2.25%
Mn 257.610†	11856.5	0.5200	mg/L	0.00501	0.5200	mg/L	0.00501	0.96%
Mo 202.031†	7323.7	0.5103	mg/L	0.01574	0.5103	mg/L	0.01574	3.08%
Na 589.592†	103625.5	11.07	mg/L	0.237	11.07	mg/L	0.237	2.14%
Ni 231.604†	12240.6	0.5142	mg/L	0.01823	0.5142	mg/L	0.01823	3.55%
Pb 220.353†	1808.9	0.5016	mg/L	0.01170	0.5016	mg/L	0.01170	2.33%
Sb 206.836†	995.5	0.5190	mg/L	0.01841	0.5190	mg/L	0.01841	3.55%
Se 196.026†	793.6	0.4972	mg/L	0.00936	0.4972	mg/L	0.00936	1.88%
Sn 189.927†	2016.2	0.4792	mg/L	0.01140	0.4792	mg/L	0.01140	2.38%
Ti 337.279†	9521.7	0.5165	mg/L	0.00681	0.5165	mg/L	0.00681	1.32%
Tl 351.924†	1750.1	0.5190	mg/L	0.01354	0.5190	mg/L	0.01354	2.61%
V 290.880†	32754.0	0.5368	mg/L	0.01871	0.5368	mg/L	0.01871	3.49%
Zn 206.200†	19841.0	1.053	mg/L	0.0373	1.053	mg/L	0.0373	3.54%
Zr 343.823†	76.3	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	15.02%

Batch ID: OPTIMA 3

Sequence No.: 54

Sample ID: 24D1470-01

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 73

Date Collected: 4/18/2024 6:48:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152462.8	99.4	%	0.67	99.4	%	0.67	0.68%

Y axial	2025657.7	99.4 %	0.36	99.4 %	0.36	0.36%
Ag 328.068†	-34.2	-0.0007 mg/L	0.00086	-0.0007 mg/L	0.00086	126.24%
Al 396.153†	320.1	0.0843 mg/L	0.00691	0.0843 mg/L	0.00691	8.19%
As 188.979†	10.1	0.0089 mg/L	0.00195	0.0089 mg/L	0.00195	21.93%
B 208.889†	292.0	0.0422 mg/L	0.00015	0.0422 mg/L	0.00015	0.35%
Ba 233.527†	72.7	0.0211 mg/L	0.00034	0.0211 mg/L	0.00034	1.59%
Be 313.107†	1.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	181.01%
Ca 317.933†	57071.1	9.922 mg/L	0.0134	9.922 mg/L	0.0134	0.14%
Cd 228.802†	2.6	-0.0000 mg/L	0.00018	-0.0000 mg/L	0.00018	>999.9%
Co 228.616†	12.5	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	44.63%
Cr 267.716†	334.5	0.0071 mg/L	0.00020	0.0071 mg/L	0.00020	2.80%
Cu 327.393†	522.0	0.0052 mg/L	0.00074	0.0052 mg/L	0.00074	14.43%
Fe 238.204†	705.2	0.2079 mg/L	0.00107	0.2079 mg/L	0.00107	0.52%
K 766.490†	2297.4	1.150 mg/L	0.0394	1.150 mg/L	0.0394	3.43%
Mg 285.213†	45051.0	4.271 mg/L	0.0146	4.271 mg/L	0.0146	0.34%
Mn 257.610†	117.2	0.0051 mg/L	0.00020	0.0051 mg/L	0.00020	3.83%
Mo 202.031†	24.4	0.0015 mg/L	0.00041	0.0015 mg/L	0.00041	28.43%
Na 589.592†	62643.3	6.694 mg/L	0.0292	6.694 mg/L	0.0292	0.44%
Ni 231.604†	110.1	0.0046 mg/L	0.00013	0.0046 mg/L	0.00013	2.79%
Pb 220.353†	-0.6	-0.0000 mg/L	0.00213	-0.0000 mg/L	0.00213	>999.9%
Sb 206.836†	1.3	0.0002 mg/L	0.00175	0.0002 mg/L	0.00175	737.86%
Se 196.026†	-2.4	-0.0016 mg/L	0.00661	-0.0016 mg/L	0.00661	411.16%
Sn 189.927†	-136.3	-0.0229 mg/L	0.00113	-0.0229 mg/L	0.00113	4.94%
Ti 337.279†	75.3	0.0041 mg/L	0.00240	0.0041 mg/L	0.00240	58.73%
Tl 351.924†	-6.0	-0.0019 mg/L	0.00482	-0.0019 mg/L	0.00482	248.49%
V 290.880†	-8.1	-0.0003 mg/L	0.00015	-0.0003 mg/L	0.00015	50.32%
Zn 206.200†	103.2	0.0049 mg/L	0.00047	0.0049 mg/L	0.00047	9.59%
Zr 343.823†	54.0	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	67.47%

Batch ID: OPTIMA 3

Sequence No.: 55

Sample ID: B371351-MS2

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 74

Date Collected: 4/18/2024 6:56:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-MS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	154742.6	101 %	%	1.42	101 %	%	1.42	1.41%
Y axial	1996709.1	98.0 %	%	2.17	98.0 %	%	2.17	2.21%
Ag 328.068†	31063.3	0.6220 mg/L	mg/L	0.00763	0.6220 mg/L	mg/L	0.00763	1.23%
Al 396.153†	2018.4	0.5142 mg/L	mg/L	0.00799	0.5142 mg/L	mg/L	0.00799	1.55%
As 188.979†	572.0	0.4991 mg/L	mg/L	0.01869	0.4991 mg/L	mg/L	0.01869	3.74%
B 208.889†	7129.2	1.007 mg/L	mg/L	0.0274	1.007 mg/L	mg/L	0.0274	2.72%
Ba 233.527†	1999.6	0.5796 mg/L	mg/L	0.01413	0.5796 mg/L	mg/L	0.01413	2.44%
Be 313.107†	143529.4	0.5250 mg/L	mg/L	0.00108	0.5250 mg/L	mg/L	0.00108	0.21%
Ca 317.933†	178522.9	31.04 mg/L	mg/L	0.062	31.04 mg/L	mg/L	0.062	0.20%
Cd 228.802†	14844.2	0.5146 mg/L	mg/L	0.01282	0.5146 mg/L	mg/L	0.01282	2.49%
Co 228.616†	14251.2	0.5101 mg/L	mg/L	0.01268	0.5101 mg/L	mg/L	0.01268	2.49%
Cr 267.716†	24513.1	0.5204 mg/L	mg/L	0.01210	0.5204 mg/L	mg/L	0.01210	2.33%
Cu 327.393†	101296.9	0.9988 mg/L	mg/L	0.02174	0.9988 mg/L	mg/L	0.02174	2.18%
Fe 238.204†	16217.9	4.787 mg/L	mg/L	0.0642	4.787 mg/L	mg/L	0.0642	1.34%
K 766.490†	27852.6	13.94 mg/L	mg/L	0.012	13.94 mg/L	mg/L	0.012	0.09%
Mg 285.213†	187018.8	17.74 mg/L	mg/L	0.017	17.74 mg/L	mg/L	0.017	0.10%
Mn 257.610†	16489.9	0.7231 mg/L	mg/L	0.00926	0.7231 mg/L	mg/L	0.00926	1.28%
Mo 202.031†	7276.4	0.5066 mg/L	mg/L	0.01269	0.5066 mg/L	mg/L	0.01269	2.50%
Na 589.592†	321988.9	34.41 mg/L	mg/L	0.031	34.41 mg/L	mg/L	0.031	0.09%
Ni 231.604†	11516.5	0.4837 mg/L	mg/L	0.01198	0.4837 mg/L	mg/L	0.01198	2.48%
Pb 220.353†	1773.5	0.4920 mg/L	mg/L	0.01308	0.4920 mg/L	mg/L	0.01308	2.66%
Sb 206.836†	1000.7	0.5213 mg/L	mg/L	0.01435	0.5213 mg/L	mg/L	0.01435	2.75%
Se 196.026†	792.5	0.4962 mg/L	mg/L	0.01570	0.4962 mg/L	mg/L	0.01570	3.16%
Sn 189.927†	1779.0	0.4426 mg/L	mg/L	0.01065	0.4426 mg/L	mg/L	0.01065	2.41%
Ti 337.279†	9311.9	0.5052 mg/L	mg/L	0.00586	0.5052 mg/L	mg/L	0.00586	1.16%
Tl 351.924†	1752.3	0.5192 mg/L	mg/L	0.01177	0.5192 mg/L	mg/L	0.01177	2.27%
V 290.880†	31947.1	0.5233 mg/L	mg/L	0.00968	0.5233 mg/L	mg/L	0.00968	1.85%
Zn 206.200†	18936.0	1.002 mg/L	mg/L	0.0221	1.002 mg/L	mg/L	0.0221	2.20%

Zr 343.823† 68.9 0.0004 mg/L 0.00011 0.0004 mg/L 0.00011 27.31%

Batch ID: OPTIMA 3

Sequence No.: 56

Sample ID: B371351-MSD2

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 75

Date Collected: 4/18/2024 7:03:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-MSD2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154955.1	101	%	2.62	101	%	2.62	2.59%
Y axial	1983726.3	97.4	%	0.51	97.4	%	0.51	0.52%
Ag 328.068†	31306.7	0.6268	mg/L	0.00427	0.6268	mg/L	0.00427	0.68%
Al 396.153†	2000.1	0.5094	mg/L	0.01398	0.5094	mg/L	0.01398	2.74%
As 188.979†	569.3	0.4967	mg/L	0.00325	0.4967	mg/L	0.00325	0.66%
B 208.889†	7169.1	1.013	mg/L	0.0051	1.013	mg/L	0.0051	0.50%
Ba 233.527†	2008.6	0.5822	mg/L	0.00318	0.5822	mg/L	0.00318	0.55%
Be 313.107†	143581.4	0.5252	mg/L	0.00079	0.5252	mg/L	0.00079	0.15%
Ca 317.933†	177471.8	30.85	mg/L	0.078	30.85	mg/L	0.078	0.25%
Cd 228.802†	14868.4	0.5155	mg/L	0.00179	0.5155	mg/L	0.00179	0.35%
Co 228.616†	14165.5	0.5070	mg/L	0.00183	0.5070	mg/L	0.00183	0.36%
Cr 267.716†	24662.1	0.5236	mg/L	0.00363	0.5236	mg/L	0.00363	0.69%
Cu 327.393†	101600.5	1.002	mg/L	0.0017	1.002	mg/L	0.0017	0.17%
Fe 238.204†	16188.0	4.778	mg/L	0.1261	4.778	mg/L	0.1261	2.64%
K 766.490†	27697.0	13.87	mg/L	0.112	13.87	mg/L	0.112	0.81%
Mg 285.213†	186415.6	17.68	mg/L	0.077	17.68	mg/L	0.077	0.44%
Mn 257.610†	16400.6	0.7192	mg/L	0.01787	0.7192	mg/L	0.01787	2.48%
Mo 202.031†	7247.0	0.5046	mg/L	0.00270	0.5046	mg/L	0.00270	0.54%
Na 589.592†	320079.0	34.20	mg/L	0.172	34.20	mg/L	0.172	0.50%
Ni 231.604†	11493.6	0.4828	mg/L	0.00131	0.4828	mg/L	0.00131	0.27%
Pb 220.353†	1763.9	0.4893	mg/L	0.00177	0.4893	mg/L	0.00177	0.36%
Sb 206.836†	998.1	0.5199	mg/L	0.00424	0.5199	mg/L	0.00424	0.81%
Se 196.026†	796.5	0.4986	mg/L	0.00352	0.4986	mg/L	0.00352	0.71%
Sn 189.927†	1778.5	0.4424	mg/L	0.00388	0.4424	mg/L	0.00388	0.88%
Ti 337.279†	9267.4	0.5027	mg/L	0.01323	0.5027	mg/L	0.01323	2.63%
Tl 351.924†	1755.3	0.5201	mg/L	0.00351	0.5201	mg/L	0.00351	0.68%
V 290.880†	31925.6	0.5229	mg/L	0.00257	0.5229	mg/L	0.00257	0.49%
Zn 206.200†	18955.3	1.004	mg/L	0.0049	1.004	mg/L	0.0049	0.49%
Zr 343.823†	64.5	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.82%

Batch ID: OPTIMA 3

Sequence No.: 57

Sample ID: 24D1470-05

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 76

Date Collected: 4/18/2024 7:11:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152776.5	99.6	%	1.19	99.6	%	1.19	1.20%
Y axial	1992854.3	97.8	%	1.93	97.8	%	1.93	1.97%
Ag 328.068†	-39.1	-0.0008	mg/L	0.00112	-0.0008	mg/L	0.00112	138.54%
Al 396.153†	38.1	0.0056	mg/L	0.01370	0.0056	mg/L	0.01370	244.74%
As 188.979†	5.7	0.0051	mg/L	0.00178	0.0051	mg/L	0.00178	34.94%
B 208.889†	255.2	0.0368	mg/L	0.00083	0.0368	mg/L	0.00083	2.25%
Ba 233.527†	243.2	0.0705	mg/L	0.00252	0.0705	mg/L	0.00252	3.57%
Be 313.107†	12.0	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	119.50%
Ca 317.933†	155257.0	26.99	mg/L	0.098	26.99	mg/L	0.098	0.36%
Cd 228.802†	15.0	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	8.66%
Co 228.616†	111.0	0.0040	mg/L	0.00022	0.0040	mg/L	0.00022	5.37%
Cr 267.716†	391.0	0.0082	mg/L	0.00007	0.0082	mg/L	0.00007	0.79%

Cu 327.393†	496.5	0.0049 mg/L	0.00081	0.0049 mg/L	0.00081	16.42%
Fe 238.204†	2152.3	0.6347 mg/L	0.00975	0.6347 mg/L	0.00975	1.54%
K 766.490†	19709.4	9.867 mg/L	0.0045	9.867 mg/L	0.0045	0.05%
Mg 285.213†	144229.1	13.68 mg/L	0.027	13.68 mg/L	0.027	0.20%
Mn 257.610†	5019.7	0.2201 mg/L	0.00337	0.2201 mg/L	0.00337	1.53%
Mo 202.031†	31.4	0.0015 mg/L	0.00041	0.0015 mg/L	0.00041	27.11%
Na 589.592†	285541.6	30.51 mg/L	0.058	30.51 mg/L	0.058	0.19%
Ni 231.604†	87.1	0.0036 mg/L	0.00022	0.0036 mg/L	0.00022	5.94%
Pb 220.353†	-4.1	-0.0008 mg/L	0.00141	-0.0008 mg/L	0.00141	168.21%
Sb 206.836†	-1.9	-0.0020 mg/L	0.00302	-0.0020 mg/L	0.00302	149.83%
Se 196.026†	-0.2	-0.0005 mg/L	0.00370	-0.0005 mg/L	0.00370	704.85%
Sn 189.927†	-383.1	-0.0611 mg/L	0.00381	-0.0611 mg/L	0.00381	6.23%
Ti 337.279†	-5.4	-0.0003 mg/L	0.00073	-0.0003 mg/L	0.00073	251.73%
Tl 351.924†	8.9	0.0020 mg/L	0.02044	0.0020 mg/L	0.02044	>999.9%
V 290.880†	63.8	0.0004 mg/L	0.00065	0.0004 mg/L	0.00065	174.52%
Zn 206.200†	85.7	0.0019 mg/L	0.00053	0.0019 mg/L	0.00053	27.77%
Zr 343.823†	13.7	0.0001 mg/L	0.00022	0.0001 mg/L	0.00022	280.86%

Batch ID: OPTIMA 3

Sequence No.: 58

Sample ID: 24D1470-02

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 77

Date Collected: 4/18/2024 7:17:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	149943.0	97.7 %		1.84	97.7 %	1.84	1.88%
Y axial	1980893.6	97.2 %		0.68	97.2 %	0.68	0.70%
Ag 328.068†	-55.1	-0.0011 mg/L		0.00076	-0.0011 mg/L	0.00076	68.84%
Al 396.153†	1307.9	0.3482 mg/L		0.01339	0.3482 mg/L	0.01339	3.84%
As 188.979†	5.3	0.0047 mg/L		0.00391	0.0047 mg/L	0.00391	83.70%
B 208.889†	659.9	0.0953 mg/L		0.00021	0.0953 mg/L	0.00021	0.22%
Ba 233.527†	101.9	0.0295 mg/L		0.00124	0.0295 mg/L	0.00124	4.21%
Be 313.107†	25.1	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	54.23%
Ca 317.933†	112369.9	19.54 mg/L		0.078	19.54 mg/L	0.078	0.40%
Cd 228.802†	14.0	0.0004 mg/L		0.00010	0.0004 mg/L	0.00010	22.57%
Co 228.616†	26.8	0.0009 mg/L		0.00033	0.0009 mg/L	0.00033	35.33%
Cr 267.716†	669.4	0.0142 mg/L		0.00024	0.0142 mg/L	0.00024	1.70%
Cu 327.393†	542.8	0.0054 mg/L		0.00008	0.0054 mg/L	0.00008	1.41%
Fe 238.204†	507.5	0.1496 mg/L		0.00245	0.1496 mg/L	0.00245	1.64%
K 766.490†	18227.7	9.125 mg/L		0.0050	9.125 mg/L	0.0050	0.05%
Mg 285.213†	100279.3	9.508 mg/L		0.0173	9.508 mg/L	0.0173	0.18%
Mn 257.610†	783.9	0.0344 mg/L		0.00012	0.0344 mg/L	0.00012	0.36%
Mo 202.031†	68.9	0.0043 mg/L		0.00023	0.0043 mg/L	0.00023	5.40%
Na 589.592†	192707.3	20.59 mg/L		0.015	20.59 mg/L	0.015	0.07%
Ni 231.604†	173.0	0.0073 mg/L		0.00072	0.0073 mg/L	0.00072	9.94%
Pb 220.353†	-2.6	-0.0004 mg/L		0.00207	-0.0004 mg/L	0.00207	481.61%
Sb 206.836†	0.7	-0.0005 mg/L		0.00168	-0.0005 mg/L	0.00168	334.91%
Se 196.026†	-1.7	-0.0016 mg/L		0.00466	-0.0016 mg/L	0.00466	288.84%
Sn 189.927†	-293.8	-0.0488 mg/L		0.00217	-0.0488 mg/L	0.00217	4.45%
Ti 337.279†	308.4	0.0167 mg/L		0.00044	0.0167 mg/L	0.00044	2.65%
Tl 351.924†	-8.9	-0.0030 mg/L		0.01018	-0.0030 mg/L	0.01018	343.48%
V 290.880†	161.2	0.0023 mg/L		0.00114	0.0023 mg/L	0.00114	50.68%
Zn 206.200†	365.8	0.0177 mg/L		0.00051	0.0177 mg/L	0.00051	2.87%
Zr 343.823†	36.1	0.0002 mg/L		0.00011	0.0002 mg/L	0.00011	52.08%

Batch ID: OPTIMA 3

Sequence No.: 59

Sample ID: SEQ-CCV@ 23IJ0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 7:25:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151806.0	99.0 %	1.23	99.0 %	1.23	1.24%
Y axial	1974805.5	96.9 %	1.49	96.9 %	1.49	1.53%
Ag 328.068†	104232.8	2.087 mg/L	0.0190	2.087 mg/L	0.0190	0.91%
QC value less than the lower limit for				Ag 328.068 Recovery = 83.47%		
Al 396.153†	37949.3	9.979 mg/L	0.0327	9.979 mg/L	0.0327	0.33%
QC value within limits for				Al 396.153 Recovery = 99.79%		
As 188.979†	5618.9	4.898 mg/L	0.0435	4.898 mg/L	0.0435	0.89%
QC value within limits for				As 188.979 Recovery = 97.96%		
B 208.889†	33289.8	4.583 mg/L	0.0527	4.583 mg/L	0.0527	1.15%
QC value within limits for				B 208.889 Recovery = 91.66%		
Ba 233.527†	17053.6	4.945 mg/L	0.1495	4.945 mg/L	0.1495	3.02%
QC value within limits for				Ba 233.527 Recovery = 98.89%		
Be 313.107†	1387322.3	5.075 mg/L	0.0718	5.075 mg/L	0.0718	1.42%
QC value within limits for				Be 313.107 Recovery = 101.50%		
Ca 317.933†	55796.7	9.699 mg/L	0.0212	9.699 mg/L	0.0212	0.22%
QC value within limits for				Ca 317.933 Recovery = 96.99%		
Cd 228.802†	144167.6	4.997 mg/L	0.0193	4.997 mg/L	0.0193	0.39%
QC value within limits for				Cd 228.802 Recovery = 99.95%		
Co 228.616†	140225.7	5.018 mg/L	0.0173	5.018 mg/L	0.0173	0.35%
QC value within limits for				Co 228.616 Recovery = 100.36%		
Cr 267.716†	237755.9	5.047 mg/L	0.0163	5.047 mg/L	0.0163	0.32%
QC value within limits for				Cr 267.716 Recovery = 100.93%		
Cu 327.393†	496526.3	4.900 mg/L	0.0137	4.900 mg/L	0.0137	0.28%
QC value within limits for				Cu 327.393 Recovery = 97.99%		
Fe 238.204†	16814.6	5.002 mg/L	0.0243	5.002 mg/L	0.0243	0.49%
QC value within limits for				Fe 238.204 Recovery = 100.05%		
K 766.490†	20086.9	10.06 mg/L	0.030	10.06 mg/L	0.030	0.30%
QC value within limits for				K 766.490 Recovery = 100.55%		
Mg 285.213†	107544.9	10.21 mg/L	0.024	10.21 mg/L	0.024	0.23%
QC value within limits for				Mg 285.213 Recovery = 102.08%		
Mn 257.610†	112455.2	4.931 mg/L	0.0090	4.931 mg/L	0.0090	0.18%
QC value within limits for				Mn 257.610 Recovery = 98.63%		
Mo 202.031†	69767.9	4.862 mg/L	0.0145	4.862 mg/L	0.0145	0.30%
QC value within limits for				Mo 202.031 Recovery = 97.24%		
Na 589.592†	93615.1	10.00 mg/L	0.029	10.00 mg/L	0.029	0.29%
QC value within limits for				Na 589.592 Recovery = 100.04%		
Ni 231.604†	113973.6	4.788 mg/L	0.0191	4.788 mg/L	0.0191	0.40%
QC value within limits for				Ni 231.604 Recovery = 95.76%		
Pb 220.353†	17458.1	4.844 mg/L	0.0552	4.844 mg/L	0.0552	1.14%
QC value within limits for				Pb 220.353 Recovery = 96.88%		
Sb 206.836†	9483.7	4.951 mg/L	0.0491	4.951 mg/L	0.0491	0.99%
QC value within limits for				Sb 206.836 Recovery = 99.02%		
Se 196.026†	7949.3	4.939 mg/L	0.0478	4.939 mg/L	0.0478	0.97%
QC value within limits for				Se 196.026 Recovery = 98.78%		
Sn 189.927†	21709.0	5.000 mg/L	0.0477	5.000 mg/L	0.0477	0.95%
QC value within limits for				Sn 189.927 Recovery = 100.00%		
Ti 337.279†	91333.9	4.955 mg/L	0.0161	4.955 mg/L	0.0161	0.33%
QC value within limits for				Ti 337.279 Recovery = 99.09%		
Tl 351.924†	8532.2	2.541 mg/L	0.0159	2.541 mg/L	0.0159	0.63%
QC value within limits for				Tl 351.924 Recovery = 101.63%		
V 290.880†	310574.9	5.096 mg/L	0.0157	5.096 mg/L	0.0157	0.31%
QC value within limits for				V 290.880 Recovery = 101.93%		
Zn 206.200†	91516.4	4.886 mg/L	0.0131	4.886 mg/L	0.0131	0.27%
QC value within limits for				Zn 206.200 Recovery = 97.71%		
Zr 343.823†	830450.0	4.816 mg/L	0.0059	4.816 mg/L	0.0059	0.12%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 60

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 7:32:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	149351.6	97.4 %	0.88	97.4 %	0.88	0.90%
Y axial	2003444.0	98.3 %	0.66	98.3 %	0.66	0.67%
Ag 328.068†	1449.6	0.0290 mg/L	0.00087	0.0290 mg/L	0.00087	2.99%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-43.6	-0.0118 mg/L	0.00543	-0.0118 mg/L	0.00543	46.12%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	3.2	0.0028 mg/L	0.00021	0.0028 mg/L	0.00021	7.36%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	139.8	0.0202 mg/L	0.00109	0.0202 mg/L	0.00109	5.39%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	0.3	0.0001 mg/L	0.00109	0.0001 mg/L	0.00109	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	32.6	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	6.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	16.4	0.0029 mg/L	0.00224	0.0029 mg/L	0.00224	78.55%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	13.3	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.78%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	13.6	0.0005 mg/L	0.00036	0.0005 mg/L	0.00036	74.27%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-18.9	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	27.69%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	82.7	0.0008 mg/L	0.00064	0.0008 mg/L	0.00064	78.59%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	0.1	0.0000 mg/L	0.00120	0.0000 mg/L	0.00120	>999.9%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	155.2	0.0777 mg/L	0.03522	0.0777 mg/L	0.03522	45.35%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	10.8	0.0010 mg/L	0.00033	0.0010 mg/L	0.00033	31.89%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-15.0	-0.0007 mg/L	0.00035	-0.0007 mg/L	0.00035	53.34%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	14.9	0.0010 mg/L	0.00042	0.0010 mg/L	0.00042	40.65%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	103.1	0.0110 mg/L	0.01209	0.0110 mg/L	0.01209	109.81%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	26.1	0.0011 mg/L	0.00024	0.0011 mg/L	0.00024	21.74%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-1.8	-0.0005 mg/L	0.00191	-0.0005 mg/L	0.00191	381.87%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	0.5	0.0002 mg/L	0.00365	0.0002 mg/L	0.00365	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	12.3	0.0076 mg/L	0.00322	0.0076 mg/L	0.00322	42.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	2.6	0.0006 mg/L	0.00151	0.0006 mg/L	0.00151	256.41%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-6.1	-0.0003 mg/L	0.00121	-0.0003 mg/L	0.00121	363.25%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-29.1	-0.0086 mg/L	0.00573	-0.0086 mg/L	0.00573	66.94%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-42.0	-0.0006 mg/L	0.00018	-0.0006 mg/L	0.00018	27.01%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	23.7	0.0012 mg/L	0.00025	0.0012 mg/L	0.00025	20.11%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	6.1	0.0000 mg/L	0.00022	0.0000 mg/L	0.00022	609.12%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 61

Sample ID: 24D1470-03

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 78

Date Collected: 4/18/2024 7:38:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150954.0	98.4	%	0.67	98.4	%	0.67	0.68%
Y axial	1985325.2	97.5	%	2.09	97.5	%	2.09	2.14%
Ag 328.068†	358.8	0.0072	mg/L	0.00071	0.0072	mg/L	0.00071	9.92%
Al 396.153†	1093.9	0.2920	mg/L	0.01205	0.2920	mg/L	0.01205	4.13%
As 188.979†	4.3	0.0039	mg/L	0.00290	0.0039	mg/L	0.00290	74.47%
B 208.889†	711.8	0.1029	mg/L	0.00213	0.1029	mg/L	0.00213	2.07%
Ba 233.527†	249.5	0.0724	mg/L	0.00139	0.0724	mg/L	0.00139	1.92%
Be 313.107†	20.1	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	57.93%
Ca 317.933†	69960.1	12.16	mg/L	0.013	12.16	mg/L	0.013	0.10%
Cd 228.802†	10.8	0.0003	mg/L	0.00032	0.0003	mg/L	0.00032	97.27%
Co 228.616†	13.6	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	22.69%
Cr 267.716†	1430.9	0.0304	mg/L	0.00078	0.0304	mg/L	0.00078	2.57%
Cu 327.393†	624.9	0.0062	mg/L	0.00044	0.0062	mg/L	0.00044	7.14%
Fe 238.204†	1019.8	0.3007	mg/L	0.00136	0.3007	mg/L	0.00136	0.45%
K 766.490†	14870.7	7.445	mg/L	0.0852	7.445	mg/L	0.0852	1.14%
Mg 285.213†	70709.9	6.705	mg/L	0.0145	6.705	mg/L	0.0145	0.22%
Mn 257.610†	1194.5	0.0524	mg/L	0.00030	0.0524	mg/L	0.00030	0.57%
Mo 202.031†	49.8	0.0032	mg/L	0.00027	0.0032	mg/L	0.00027	8.60%
Na 589.592†	190186.0	20.32	mg/L	0.022	20.32	mg/L	0.022	0.11%
Ni 231.604†	424.0	0.0178	mg/L	0.00087	0.0178	mg/L	0.00087	4.88%
Pb 220.353†	2.1	0.0008	mg/L	0.00054	0.0008	mg/L	0.00054	71.97%
Sb 206.836†	5.9	0.0021	mg/L	0.00315	0.0021	mg/L	0.00315	150.57%
Se 196.026†	7.5	0.0045	mg/L	0.00285	0.0045	mg/L	0.00285	62.79%
Sn 189.927†	-211.5	-0.0354	mg/L	0.00271	-0.0354	mg/L	0.00271	7.64%
Ti 337.279†	107.6	0.0058	mg/L	0.00079	0.0058	mg/L	0.00079	13.52%
Tl 351.924†	-44.9	-0.0134	mg/L	0.00306	-0.0134	mg/L	0.00306	22.88%
V 290.880†	60.8	0.0008	mg/L	0.00070	0.0008	mg/L	0.00070	85.43%
Zn 206.200†	173.2	0.0077	mg/L	0.00014	0.0077	mg/L	0.00014	1.88%
Zr 343.823†	158.4	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	10.20%

Batch ID: OPTIMA 3

Sequence No.: 62

Sample ID: 24D1470-04

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 79

Date Collected: 4/18/2024 7:45:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150116.2	97.9	%	0.96	97.9	%	0.96	0.98%
Y axial	1985393.4	97.5	%	0.64	97.5	%	0.64	0.66%
Ag 328.068†	-1.7	-0.0000	mg/L	0.00050	-0.0000	mg/L	0.00050	>999.9%
Al 396.153†	152.1	0.0386	mg/L	0.01239	0.0386	mg/L	0.01239	32.11%
As 188.979†	0.6	0.0005	mg/L	0.00412	0.0005	mg/L	0.00412	901.25%
B 208.889†	403.2	0.0583	mg/L	0.00131	0.0583	mg/L	0.00131	2.25%
Ba 233.527†	102.6	0.0297	mg/L	0.00041	0.0297	mg/L	0.00041	1.39%
Be 313.107†	5.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	86.57%
Ca 317.933†	76798.7	13.35	mg/L	0.021	13.35	mg/L	0.021	0.15%
Cd 228.802†	10.4	0.0004	mg/L	0.00019	0.0004	mg/L	0.00019	50.39%
Co 228.616†	154.1	0.0055	mg/L	0.00036	0.0055	mg/L	0.00036	6.48%
Cr 267.716†	13.6	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	33.65%
Cu 327.393†	690.6	0.0068	mg/L	0.00112	0.0068	mg/L	0.00112	16.47%
Fe 238.204†	191.8	0.0566	mg/L	0.00080	0.0566	mg/L	0.00080	1.41%
K 766.490†	5968.3	2.988	mg/L	0.0467	2.988	mg/L	0.0467	1.56%
Mg 285.213†	94943.9	9.004	mg/L	0.0292	9.004	mg/L	0.0292	0.32%
Mn 257.610†	482.0	0.0211	mg/L	0.00053	0.0211	mg/L	0.00053	2.49%
Mo 202.031†	25.1	0.0014	mg/L	0.00075	0.0014	mg/L	0.00075	53.75%
Na 589.592†	217588.2	23.25	mg/L	0.055	23.25	mg/L	0.055	0.24%
Ni 231.604†	385.3	0.0162	mg/L	0.00021	0.0162	mg/L	0.00021	1.32%
Pb 220.353†	0.5	0.0003	mg/L	0.00135	0.0003	mg/L	0.00135	435.38%
Sb 206.836†	2.0	0.0004	mg/L	0.00244	0.0004	mg/L	0.00244	607.41%
Se 196.026†	-4.4	-0.0032	mg/L	0.00042	-0.0032	mg/L	0.00042	13.21%

Sn 189.927†	-276.9	-0.0461 mg/L	0.00199	-0.0461 mg/L	0.00199	4.31%
Ti 337.279†	49.4	0.0027 mg/L	0.00090	0.0027 mg/L	0.00090	33.42%
Tl 351.924†	26.2	0.0075 mg/L	0.00978	0.0075 mg/L	0.00978	130.76%
V 290.880†	18.5	-0.0001 mg/L	0.00026	-0.0001 mg/L	0.00026	211.13%
Zn 206.200†	1725.2	0.0891 mg/L	0.00023	0.0891 mg/L	0.00023	0.26%
Zr 343.823†	38.8	0.0002 mg/L	0.00022	0.0002 mg/L	0.00022	99.78%

Batch ID: OPTIMA 3

Sequence No.: 63

Sample ID: 24D1470-06

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 80

Date Collected: 4/18/2024 7:53:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-06

Mean Data: 149730.1								
	Mean Corrected		Calib.			Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	149730.1	97.6	%	1.16	97.6	%	1.16	1.19%
Y axial	1977584.0	97.1	%	1.88	97.1	%	1.88	1.93%
Ag 328.068†	-39.3	-0.0008	mg/L	0.00006	-0.0008	mg/L	0.00006	7.80%
Al 396.153†	99.2	0.0224	mg/L	0.00530	0.0224	mg/L	0.00530	23.66%
As 188.979†	7.7	0.0067	mg/L	0.00196	0.0067	mg/L	0.00196	29.32%
B 208.889†	486.8	0.0704	mg/L	0.00141	0.0704	mg/L	0.00141	2.00%
Ba 233.527†	292.2	0.0848	mg/L	0.00123	0.0848	mg/L	0.00123	1.45%
Be 313.107†	5.9	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	205.07%
Ca 317.933†	143390.8	24.93	mg/L	0.132	24.93	mg/L	0.132	0.53%
Cd 228.802†	12.8	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	60.56%
Co 228.616†	17.8	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	23.37%
Cr 267.716†	21.4	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	49.47%
Cu 327.393†	594.6	0.0059	mg/L	0.00043	0.0059	mg/L	0.00043	7.29%
Fe 238.204†	225.8	0.0666	mg/L	0.00122	0.0666	mg/L	0.00122	1.83%
K 766.490†	3251.0	1.628	mg/L	0.0366	1.628	mg/L	0.0366	2.25%
Mg 285.213†	130664.4	12.39	mg/L	0.030	12.39	mg/L	0.030	0.25%
Mn 257.610†	101.0	0.0044	mg/L	0.00016	0.0044	mg/L	0.00016	3.52%
Mo 202.031†	21.0	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	49.57%
Na 589.592†	193605.4	20.69	mg/L	0.009	20.69	mg/L	0.009	0.04%
Ni 231.604†	61.1	0.0026	mg/L	0.00028	0.0026	mg/L	0.00028	10.97%
Pb 220.353†	-6.2	-0.0014	mg/L	0.00082	-0.0014	mg/L	0.00082	58.28%
Sb 206.836†	3.1	0.0008	mg/L	0.00415	0.0008	mg/L	0.00415	546.57%
Se 196.026†	-7.9	-0.0058	mg/L	0.00425	-0.0058	mg/L	0.00425	72.97%
Sn 189.927†	-374.4	-0.0617	mg/L	0.00274	-0.0617	mg/L	0.00274	4.44%
Ti 337.279†	14.4	0.0008	mg/L	0.00089	0.0008	mg/L	0.00089	113.21%
Tl 351.924†	3.7	0.0006	mg/L	0.00205	0.0006	mg/L	0.00205	365.54%
V 290.880†	48.3	0.0002	mg/L	0.00058	0.0002	mg/L	0.00058	323.81%
Zn 206.200†	156.1	0.0065	mg/L	0.00027	0.0065	mg/L	0.00027	4.13%
Zr 343.823†	24.1	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	162.71%

Batch ID: OPTIMA 3

Sequence No.: 64

Sample ID: 24D1470-07

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 81

Date Collected: 4/18/2024 8:01:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-07

	Mean Corrected		Calib.			Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	148935.4	97.1	%	0.80	97.1	%	0.80	0.83%
Y axial	1964963.7	96.5	%	1.22	96.5	%	1.22	1.26%
Ag 328.068†	-123.4	-0.0023	mg/L	0.00099	-0.0023	mg/L	0.00099	42.72%
Al 396.153†	1573.0	0.4194	mg/L	0.00366	0.4194	mg/L	0.00366	0.87%
As 188.979†	5.4	0.0057	mg/L	0.00313	0.0057	mg/L	0.00313	55.29%
B 208.889†	612.9	0.0886	mg/L	0.00157	0.0886	mg/L	0.00157	1.78%
Ba 233.527†	312.6	0.0905	mg/L	0.00250	0.0905	mg/L	0.00250	2.77%

Be 313.107†	6.7	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	513.68%
Ca 317.933†	128013.8	22.25 mg/L	0.124	22.25 mg/L	0.124	0.56%
Cd 228.802†	13.4	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	45.70%
Co 228.616†	52.6	0.0019 mg/L	0.00029	0.0019 mg/L	0.00029	15.31%
Cr 267.716†	722.4	0.0155 mg/L	0.00016	0.0155 mg/L	0.00016	1.01%
Cu 327.393†	750.6	0.0076 mg/L	0.00028	0.0076 mg/L	0.00028	3.73%
Fe 238.204†	17806.7	5.251 mg/L	0.0125	5.251 mg/L	0.0125	0.24%
K 766.490†	3112.5	1.557 mg/L	0.0329	1.557 mg/L	0.0329	2.11%
Mg 285.213†	107801.0	10.23 mg/L	0.033	10.23 mg/L	0.033	0.32%
Mn 257.610†	543.4	0.0239 mg/L	0.00034	0.0239 mg/L	0.00034	1.41%
Mo 202.031†	40.8	0.0027 mg/L	0.00068	0.0027 mg/L	0.00068	25.14%
Na 589.592†	183018.1	19.56 mg/L	0.025	19.56 mg/L	0.025	0.13%
Ni 231.604†	117.3	0.0049 mg/L	0.00034	0.0049 mg/L	0.00034	6.81%
Pb 220.353†	-9.2	-0.0025 mg/L	0.00102	-0.0025 mg/L	0.00102	41.26%
Sb 206.836†	4.9	0.0015 mg/L	0.00149	0.0015 mg/L	0.00149	99.89%
Se 196.026†	-11.8	-0.0019 mg/L	0.00344	-0.0019 mg/L	0.00344	177.72%
Sn 189.927†	-316.8	-0.0526 mg/L	0.00365	-0.0526 mg/L	0.00365	6.94%
Ti 337.279†	121.4	0.0066 mg/L	0.00017	0.0066 mg/L	0.00017	2.64%
Tl 351.924†	-18.5	-0.0058 mg/L	0.00471	-0.0058 mg/L	0.00471	81.98%
V 290.880†	163.4	0.0019 mg/L	0.00119	0.0019 mg/L	0.00119	64.30%
Zn 206.200†	257.3	0.0116 mg/L	0.00041	0.0116 mg/L	0.00041	3.55%
Zr 343.823†	101.7	0.0006 mg/L	0.00022	0.0006 mg/L	0.00022	37.97%

Batch ID: OPTIMA 3

Sequence No.: 65

Sample ID: 24D1470-08

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 82

Date Collected: 4/18/2024 8:09:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	149434.6	97.4	%	1.69	97.4	%	1.69	1.74%
Y axial	1980864.3	97.2	%	0.26	97.2	%	0.26	0.27%
Ag 328.068†	-68.6	-0.0014	mg/L	0.00075	-0.0014	mg/L	0.00075	53.62%
Al 396.153†	12.3	-0.0008	mg/L	0.00966	-0.0008	mg/L	0.00966	>999.9%
As 188.979†	4.1	0.0036	mg/L	0.00181	0.0036	mg/L	0.00181	50.69%
B 208.889†	373.8	0.0540	mg/L	0.00077	0.0540	mg/L	0.00077	1.43%
Ba 233.527†	279.3	0.0810	mg/L	0.00064	0.0810	mg/L	0.00064	0.79%
Be 313.107†	15.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	49.35%
Ca 317.933†	135185.5	23.50	mg/L	0.058	23.50	mg/L	0.058	0.25%
Cd 228.802†	10.5	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	25.77%
Co 228.616†	181.7	0.0065	mg/L	0.00021	0.0065	mg/L	0.00021	3.23%
Cr 267.716†	241.2	0.0051	mg/L	0.00016	0.0051	mg/L	0.00016	3.06%
Cu 327.393†	451.0	0.0044	mg/L	0.00016	0.0044	mg/L	0.00016	3.56%
Fe 238.204†	220.9	0.0652	mg/L	0.00100	0.0652	mg/L	0.00100	1.53%
K 766.490†	54539.6	27.30	mg/L	0.088	27.30	mg/L	0.088	0.32%
Mg 285.213†	126465.6	11.99	mg/L	0.041	11.99	mg/L	0.041	0.34%
Mn 257.610†	2213.9	0.0971	mg/L	0.00130	0.0971	mg/L	0.00130	1.34%
Mo 202.031†	23.5	0.0010	mg/L	0.00026	0.0010	mg/L	0.00026	25.42%
Na 589.592†	216177.4	23.10	mg/L	0.043	23.10	mg/L	0.043	0.18%
Ni 231.604†	843.4	0.0355	mg/L	0.00025	0.0355	mg/L	0.00025	0.71%
Pb 220.353†	-2.4	-0.0004	mg/L	0.00054	-0.0004	mg/L	0.00054	148.31%
Sb 206.836†	4.0	0.0012	mg/L	0.00178	0.0012	mg/L	0.00178	147.57%
Se 196.026†	-6.8	-0.0051	mg/L	0.00495	-0.0051	mg/L	0.00495	97.37%
Sn 189.927†	-348.5	-0.0565	mg/L	0.00161	-0.0565	mg/L	0.00161	2.85%
Ti 337.279†	-4.1	-0.0002	mg/L	0.00062	-0.0002	mg/L	0.00062	279.86%
Tl 351.924†	-31.9	-0.0099	mg/L	0.01632	-0.0099	mg/L	0.01632	164.93%
V 290.880†	80.9	0.0007	mg/L	0.00161	0.0007	mg/L	0.00161	215.99%
Zn 206.200†	76.8	0.0021	mg/L	0.00028	0.0021	mg/L	0.00028	13.46%
Zr 343.823†	8.7	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	333.87%

Batch ID: OPTIMA 3

Sequence No.: 66

Sample ID: 24D1470-09

Autosampler Location: 83

Date Collected: 4/18/2024 8:15:19 PM

Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 110

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24D1470-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	147562.8	96.2	%	1.49	96.2	%	1.49	1.55%
Y axial	1923188.6	94.4	%	1.91	94.4	%	1.91	2.02%
Ag 328.068†	-11.2	-0.0002	mg/L	0.00018	-0.0002	mg/L	0.00018	80.54%
Al 396.153†	38.6	0.0075	mg/L	0.01150	0.0075	mg/L	0.01150	153.40%
As 188.979†	5.4	0.0047	mg/L	0.00215	0.0047	mg/L	0.00215	45.83%
B 208.889†	630.2	0.0911	mg/L	0.00103	0.0911	mg/L	0.00103	1.13%
Ba 233.527†	235.8	0.0684	mg/L	0.00042	0.0684	mg/L	0.00042	0.61%
Be 313.107†	48.9	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	45.29%
Ca 317.933†	94478.0	16.43	mg/L	0.019	16.43	mg/L	0.019	0.11%
Cd 228.802†	14.0	0.0004	mg/L	0.00018	0.0004	mg/L	0.00018	42.36%
Co 228.616†	25.0	0.0009	mg/L	0.00041	0.0009	mg/L	0.00041	44.08%
Cr 267.716†	181.0	0.0038	mg/L	0.00026	0.0038	mg/L	0.00026	6.85%
Cu 327.393†	381.8	0.0038	mg/L	0.00054	0.0038	mg/L	0.00054	14.36%
Fe 238.204†	20.7	0.0061	mg/L	0.00111	0.0061	mg/L	0.00111	18.11%
K 766.490†	44242.7	22.15	mg/L	0.046	22.15	mg/L	0.046	0.21%
Mg 285.213†	91656.1	8.691	mg/L	0.0124	8.691	mg/L	0.0124	0.14%
Mn 257.610†	15.5	0.0007	mg/L	0.00058	0.0007	mg/L	0.00058	86.03%
Mo 202.031†	24.5	0.0013	mg/L	0.00074	0.0013	mg/L	0.00074	58.45%
Na 589.592†	234070.6	25.01	mg/L	0.026	25.01	mg/L	0.026	0.10%
Ni 231.604†	62.4	0.0026	mg/L	0.00023	0.0026	mg/L	0.00023	8.72%
Pb 220.353†	-5.9	-0.0014	mg/L	0.00215	-0.0014	mg/L	0.00215	152.05%
Sb 206.836†	0.6	-0.0004	mg/L	0.00245	-0.0004	mg/L	0.00245	617.94%
Se 196.026†	7.7	0.0042	mg/L	0.00373	0.0042	mg/L	0.00373	89.16%
Sn 189.927†	-263.2	-0.0434	mg/L	0.00092	-0.0434	mg/L	0.00092	2.13%
Ti 337.279†	-10.8	-0.0006	mg/L	0.00071	-0.0006	mg/L	0.00071	121.10%
Tl 351.924†	-20.7	-0.0064	mg/L	0.00902	-0.0064	mg/L	0.00902	140.55%
V 290.880†	75.7	0.0008	mg/L	0.00067	0.0008	mg/L	0.00067	81.31%
Zn 206.200†	53.4	0.0007	mg/L	0.00055	0.0007	mg/L	0.00055	80.10%
Zr 343.823†	6.9	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	274.16%

Batch ID: OPTIMA 3

Sequence No.: 67

Sample ID: 24D1470-10

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 84

Date Collected: 4/18/2024 8:21:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151233.7	98.6	%	2.67	98.6	%	2.67	2.71%
Y axial	1915370.9	94.0	%	1.69	94.0	%	1.69	1.80%
Ag 328.068†	-75.2	-0.0015	mg/L	0.00098	-0.0015	mg/L	0.00098	65.18%
Al 396.153†	71.1	0.0158	mg/L	0.01493	0.0158	mg/L	0.01493	94.29%
As 188.979†	5.6	0.0048	mg/L	0.00185	0.0048	mg/L	0.00185	38.50%
B 208.889†	637.0	0.0921	mg/L	0.00194	0.0921	mg/L	0.00194	2.10%
Ba 233.527†	463.6	0.1345	mg/L	0.00336	0.1345	mg/L	0.00336	2.50%
Be 313.107†	42.2	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	57.90%
Ca 317.933†	107339.8	18.66	mg/L	0.033	18.66	mg/L	0.033	0.18%
Cd 228.802†	18.7	0.0006	mg/L	0.00013	0.0006	mg/L	0.00013	21.69%
Co 228.616†	21.2	0.0008	mg/L	0.00005	0.0008	mg/L	0.00005	6.52%
Cr 267.716†	74.9	0.0016	mg/L	0.00014	0.0016	mg/L	0.00014	8.70%
Cu 327.393†	305.6	0.0030	mg/L	0.00091	0.0030	mg/L	0.00091	30.30%
Fe 238.204†	68.6	0.0202	mg/L	0.00106	0.0202	mg/L	0.00106	5.22%
K 766.490†	30065.6	15.05	mg/L	0.074	15.05	mg/L	0.074	0.49%
Mg 285.213†	105453.0	9.999	mg/L	0.0405	9.999	mg/L	0.0405	0.41%
Mn 257.610†	36.9	0.0016	mg/L	0.00032	0.0016	mg/L	0.00032	19.85%
Mo 202.031†	36.9	0.0021	mg/L	0.00067	0.0021	mg/L	0.00067	32.11%

Na 589.592†	243234.9	25.99	mg/L	0.112	25.99	mg/L	0.112	0.43%
Ni 231.604†	65.5	0.0028	mg/L	0.00049	0.0028	mg/L	0.00049	17.86%
Pb 220.353†	-9.1	-0.0023	mg/L	0.00153	-0.0023	mg/L	0.00153	67.72%
Sb 206.836†	3.6	0.0011	mg/L	0.00333	0.0011	mg/L	0.00333	289.62%
Se 196.026†	4.9	0.0024	mg/L	0.00433	0.0024	mg/L	0.00433	182.11%
Sn 189.927†	-299.2	-0.0491	mg/L	0.00156	-0.0491	mg/L	0.00156	3.18%
Ti 337.279†	-9.6	-0.0005	mg/L	0.00085	-0.0005	mg/L	0.00085	161.84%
Tl 351.924†	-22.1	-0.0069	mg/L	0.01374	-0.0069	mg/L	0.01374	199.90%
V 290.880†	71.7	0.0007	mg/L	0.00034	0.0007	mg/L	0.00034	48.21%
Zn 206.200†	29.4	-0.0007	mg/L	0.00011	-0.0007	mg/L	0.00011	16.57%
Zr 343.823†	50.5	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	56.14%

Batch ID: OPTIMA 3

Sequence No.: 68

Sample ID: 24D1470-11

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 85

Date Collected: 4/18/2024 8:27:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	144828.2	94.4	%	2.32	94.4	%	2.32	2.45%
Y axial	1909062.1	93.7	%	2.34	93.7	%	2.34	2.49%
Ag 328.068†	-26.7	-0.0005	mg/L	0.00137	-0.0005	mg/L	0.00137	255.57%
Al 396.153†	41.9	0.0081	mg/L	0.01074	0.0081	mg/L	0.01074	132.99%
As 188.979†	10.2	0.0089	mg/L	0.00163	0.0089	mg/L	0.00163	18.37%
B 208.889†	598.5	0.0865	mg/L	0.00167	0.0865	mg/L	0.00167	1.93%
Ba 233.527†	238.7	0.0692	mg/L	0.00090	0.0692	mg/L	0.00090	1.30%
Be 313.107†	35.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	16.78%
Ca 317.933†	104886.0	18.24	mg/L	0.069	18.24	mg/L	0.069	0.38%
Cd 228.802†	15.7	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	46.63%
Co 228.616†	22.1	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	48.24%
Cr 267.716†	312.0	0.0066	mg/L	0.00013	0.0066	mg/L	0.00013	1.99%
Cu 327.393†	242.7	0.0024	mg/L	0.00013	0.0024	mg/L	0.00013	5.63%
Fe 238.204†	19.7	0.0058	mg/L	0.00044	0.0058	mg/L	0.00044	7.60%
K 766.490†	19180.2	9.602	mg/L	0.0784	9.602	mg/L	0.0784	0.82%
Mg 285.213†	101164.6	9.592	mg/L	0.0077	9.592	mg/L	0.0077	0.08%
Mn 257.610†	65.3	0.0029	mg/L	0.00048	0.0029	mg/L	0.00048	16.70%
Mo 202.031†	28.4	0.0015	mg/L	0.00060	0.0015	mg/L	0.00060	39.88%
Na 589.592†	275720.0	29.46	mg/L	0.032	29.46	mg/L	0.032	0.11%
Ni 231.604†	63.3	0.0027	mg/L	0.00043	0.0027	mg/L	0.00043	16.32%
Pb 220.353†	-4.0	-0.0009	mg/L	0.00105	-0.0009	mg/L	0.00105	119.83%
Sb 206.836†	4.6	0.0017	mg/L	0.00353	0.0017	mg/L	0.00353	213.45%
Se 196.026†	-3.6	-0.0029	mg/L	0.00375	-0.0029	mg/L	0.00375	128.42%
Sn 189.927†	-293.7	-0.0486	mg/L	0.00177	-0.0486	mg/L	0.00177	3.64%
Ti 337.279†	-17.6	-0.0010	mg/L	0.00094	-0.0010	mg/L	0.00094	98.32%
Tl 351.924†	-15.5	-0.0049	mg/L	0.00738	-0.0049	mg/L	0.00738	149.32%
V 290.880†	228.6	0.0032	mg/L	0.00006	0.0032	mg/L	0.00006	1.88%
Zn 206.200†	40.6	-0.0004	mg/L	0.00033	-0.0004	mg/L	0.00033	93.86%
Zr 343.823†	-12.8	-0.0001	mg/L	0.00037	-0.0001	mg/L	0.00037	499.00%

Batch ID: OPTIMA 3

Sequence No.: 69

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 7

Date Collected: 4/18/2024 8:33:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	147605.2	96.2	%	1.85	96.2	%	1.85	1.93%
Y axial	1949451.0	95.7	%	0.73	95.7	%	0.73	0.76%

Ag 328.068†	-22.7	-0.0005 mg/L	0.00040	-0.0005 mg/L	0.00040	88.35%
Al 396.153†	-25.7	-0.0070 mg/L	0.00782	-0.0070 mg/L	0.00782	112.33%
As 188.979†	0.2	0.0001 mg/L	0.00274	0.0001 mg/L	0.00274	>999.9%
B 208.889†	3.8	0.0005 mg/L	0.00068	0.0005 mg/L	0.00068	139.87%
Ba 233.527†	5.2	0.0015 mg/L	0.00097	0.0015 mg/L	0.00097	64.43%
Be 313.107†	28.6	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	7.13%
Ca 317.933†	-9.4	-0.0016 mg/L	0.00345	-0.0016 mg/L	0.00345	211.10%
Cd 228.802†	18.2	0.0006 mg/L	0.00023	0.0006 mg/L	0.00023	36.05%
Co 228.616†	22.0	0.0008 mg/L	0.00024	0.0008 mg/L	0.00024	29.80%
Cr 267.716†	-17.5	-0.0004 mg/L	0.00010	-0.0004 mg/L	0.00010	28.07%
Cu 327.393†	-113.6	-0.0011 mg/L	0.00025	-0.0011 mg/L	0.00025	22.23%
Fe 238.204†	6.1	0.0018 mg/L	0.00088	0.0018 mg/L	0.00088	48.56%
K 766.490†	134.4	0.0673 mg/L	0.06156	0.0673 mg/L	0.06156	91.51%
Mg 285.213†	18.1	0.0017 mg/L	0.00061	0.0017 mg/L	0.00061	35.31%
Mn 257.610†	-9.0	-0.0004 mg/L	0.00042	-0.0004 mg/L	0.00042	105.49%
Mo 202.031†	19.8	0.0014 mg/L	0.00068	0.0014 mg/L	0.00068	49.44%
Na 589.592†	83.1	0.0089 mg/L	0.00581	0.0089 mg/L	0.00581	65.38%
Ni 231.604†	37.8	0.0016 mg/L	0.00002	0.0016 mg/L	0.00002	1.47%
Pb 220.353†	-10.3	-0.0029 mg/L	0.00131	-0.0029 mg/L	0.00131	45.96%
Sb 206.836†	3.1	0.0016 mg/L	0.00028	0.0016 mg/L	0.00028	17.73%
Se 196.026†	10.7	0.0067 mg/L	0.00221	0.0067 mg/L	0.00221	33.00%
Sn 189.927†	-7.7	-0.0018 mg/L	0.00044	-0.0018 mg/L	0.00044	25.06%
Ti 337.279†	-8.2	-0.0004 mg/L	0.00110	-0.0004 mg/L	0.00110	247.85%
Tl 351.924†	-10.4	-0.0030 mg/L	0.01012	-0.0030 mg/L	0.01012	332.99%
V 290.880†	-25.7	-0.0004 mg/L	0.00023	-0.0004 mg/L	0.00023	60.05%
Zn 206.200†	-7.6	-0.0004 mg/L	0.00029	-0.0004 mg/L	0.00029	72.47%
Zr 343.823†	13.6	0.0001 mg/L	0.00024	0.0001 mg/L	0.00024	304.26%

Batch ID: OPTIMA 3

Sequence No.: 70

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 11

Date Collected: 4/18/2024 8:39:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139048.4	90.6 %	2.21	90.6 %	2.21	2.44%
Y axial	1746769.9	85.7 %	1.29	85.7 %	1.29	1.51%
Ag 328.068†	-253.7	-0.0021 mg/L	0.00047	-0.0021 mg/L	0.00047	22.97%
QC value within limits for Ag 328.068			Recovery = Not calculated			
Al 396.153†	977206.0	262.8 mg/L	5.74	262.8 mg/L	5.74	2.18%
QC value within limits for Al 396.153			Recovery = 105.11%			
As 188.979†	-17.6	0.0026 mg/L	0.00291	0.0026 mg/L	0.00291	113.07%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	-18.9	-0.0018 mg/L	0.00073	-0.0018 mg/L	0.00073	40.95%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	24.5	0.0026 mg/L	0.00168	0.0026 mg/L	0.00168	64.15%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	96.2	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	18.56%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	1399545.0	243.3 mg/L	5.86	243.3 mg/L	5.86	2.41%
QC value within limits for Ca 317.933			Recovery = 97.32%			
Cd 228.802†	32.1	0.0013 mg/L	0.00017	0.0013 mg/L	0.00017	13.19%
QC value within limits for Cd 228.802			Recovery = Not calculated			
Co 228.616†	46.2	0.0016 mg/L	0.00086	0.0016 mg/L	0.00086	53.55%
QC value within limits for Co 228.616			Recovery = Not calculated			
Cr 267.716†	-236.3	-0.0011 mg/L	0.00014	-0.0011 mg/L	0.00014	13.21%
QC value within limits for Cr 267.716			Recovery = Not calculated			
Cu 327.393†	-693.9	-0.0037 mg/L	0.00018	-0.0037 mg/L	0.00018	4.80%
QC value within limits for Cu 327.393			Recovery = Not calculated			
Fe 238.204†	343683.7	101.3 mg/L	2.18	101.3 mg/L	2.18	2.15%
QC value within limits for Fe 238.204			Recovery = 101.33%			
K 766.490†	286.1	0.1254 mg/L	0.04606	0.1254 mg/L	0.04606	36.73%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	2662586.8	252.6 mg/L	5.38	252.6 mg/L	5.38	2.13%

QC value within limits for Mg 285.213	Recovery = 101.04%		
Mn 257.610† 102.8 0.0063 mg/L	0.00107 0.0063 mg/L	0.00107	16.90%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031† -279.4 -0.0171 mg/L	0.00088 -0.0171 mg/L	0.00088	5.17%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 542.9 0.0580 mg/L	0.00362 0.0580 mg/L	0.00362	6.24%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 78.9 0.0033 mg/L	0.00028 0.0033 mg/L	0.00028	8.38%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353† -95.1 -0.0089 mg/L	0.00320 -0.0089 mg/L	0.00320	36.06%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836† 4.2 -0.0048 mg/L	0.00293 -0.0048 mg/L	0.00293	61.24%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026† -301.6 -0.0565 mg/L	0.01314 -0.0565 mg/L	0.01314	23.26%
QC value less than the lower limit for Se 196.026	Recovery = Not calculated		
Sn 189.927† -2116.6 -0.0015 mg/L	0.01178 -0.0015 mg/L	0.01178	806.98%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -41.1 -0.0022 mg/L	0.00007 -0.0022 mg/L	0.00007	3.07%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† -49.0 -0.0026 mg/L	0.00680 -0.0026 mg/L	0.00680	263.13%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880† 1043.2 -0.0036 mg/L	0.00303 -0.0036 mg/L	0.00303	83.54%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200† -60.4 0.0006 mg/L	0.00027 0.0006 mg/L	0.00027	41.59%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823† 621.6 0.0036 mg/L	0.00008 0.0036 mg/L	0.00008	2.31%
QC Failed. Continue with analysis.			

Batch ID: OPTIMA 3

Sequence No.: 71

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/18/2024 8:45:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141472.8	92.2 %	0.35	92.2 %	0.35	0.38%
Y axial	1759684.2	86.4 %	0.86	86.4 %	0.86	1.00%
Ag 328.068†	22850.1	0.4605 mg/L	0.01277	0.4605 mg/L	0.01277	2.77%
QC value within limits for Ag 328.068			Recovery = 115.11%			
Al 396.153†	967081.3	260.0 mg/L	0.42	260.0 mg/L	0.42	0.16%
QC value within limits for Al 396.153			Recovery = 104.02%			
As 188.979†	200.8	0.1984 mg/L	0.00775	0.1984 mg/L	0.00775	3.90%
QC value within limits for As 188.979			Recovery = 99.21%			
B 208.889†	-29.8	-0.0033 mg/L	0.00182	-0.0033 mg/L	0.00182	54.51%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	3560.0	1.028 mg/L	0.0106	1.028 mg/L	0.0106	1.03%
QC value within limits for Ba 233.527			Recovery = 102.78%			
Be 313.107†	276251.7	1.011 mg/L	0.0031	1.011 mg/L	0.0031	0.30%
QC value within limits for Be 313.107			Recovery = 101.07%			
Ca 317.933†	1391353.4	241.9 mg/L	0.39	241.9 mg/L	0.39	0.16%
QC value within limits for Ca 317.933			Recovery = 96.75%			
Cd 228.802†	58676.2	2.052 mg/L	0.0133	2.052 mg/L	0.0133	0.65%
QC value within limits for Cd 228.802			Recovery = 102.61%			
Co 228.616†	26137.6	0.9345 mg/L	0.00407	0.9345 mg/L	0.00407	0.44%
QC value within limits for Co 228.616			Recovery = 93.45%			
Cr 267.716†	46566.3	0.9923 mg/L	0.00723	0.9923 mg/L	0.00723	0.73%
QC value within limits for Cr 267.716			Recovery = 99.23%			
Cu 327.393†	101266.0	1.001 mg/L	0.0053	1.001 mg/L	0.0053	0.53%
QC value within limits for Cu 327.393			Recovery = 100.07%			
Fe 238.204†	341924.6	100.8 mg/L	0.11	100.8 mg/L	0.11	0.11%
QC value within limits for Fe 238.204			Recovery = 100.82%			
K 766.490†	162.0	0.0634 mg/L	0.07283	0.0634 mg/L	0.07283	114.94%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	2642950.4	250.8 mg/L	0.56	250.8 mg/L	0.56	0.22%

QC value within limits for Mg 285.213	Recovery = 100.30%		
Mn 257.610† 22124.7 0.9720 mg/L	0.00386 0.9720 mg/L	0.00386	0.40%
QC value within limits for Mn 257.610	Recovery = 97.20%		
Mo 202.031† -290.2 -0.0178 mg/L	0.00046 -0.0178 mg/L	0.00046	2.59%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 524.2 0.0560 mg/L	0.00812 0.0560 mg/L	0.00812	14.50%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 41579.1 1.748 mg/L	0.0121 1.748 mg/L	0.0121	0.69%
QC value within limits for Ni 231.604	Recovery = 87.38%		
Pb 220.353† 240.7 0.0839 mg/L	0.00355 0.0839 mg/L	0.00355	4.23%
QC value within limits for Pb 220.353	Recovery = 83.86%		
Sb 206.836† 2169.1 1.105 mg/L	0.0125 1.105 mg/L	0.0125	1.13%
QC value within limits for Sb 206.836	Recovery = 92.05%		
Se 196.026† 519.3 0.4513 mg/L	0.00931 0.4513 mg/L	0.00931	2.06%
QC value within limits for Se 196.026	Recovery = 90.26%		
Sn 189.927† -2116.8 -0.0051 mg/L	0.01345 -0.0051 mg/L	0.01345	265.80%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -46.5 -0.0025 mg/L	0.00036 -0.0025 mg/L	0.00036	14.20%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† 717.3 0.2261 mg/L	0.00754 0.2261 mg/L	0.00754	3.33%
QC value within limits for Tl 351.924	Recovery = 113.03%		
V 290.880† 65524.9 1.031 mg/L	0.0076 1.031 mg/L	0.0076	0.73%
QC value within limits for V 290.880	Recovery = 103.11%		
Zn 206.200† 34146.5 1.818 mg/L	0.0176 1.818 mg/L	0.0176	0.97%
QC value within limits for Zn 206.200	Recovery = 90.90%		
Zr 343.823† 637.2 0.0037 mg/L	0.00006 0.0037 mg/L	0.00006	1.65%
All analyte(s) passed QC.			

Batch ID: OPTIMA 3

Sequence No.: 72

Sample ID: SEQ-CCV@ 231J0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 8:53:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 231J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140384.8	91.5 %	1.15	91.5 %	1.15	1.26%
Y axial	1877679.3	92.2 %	0.47	92.2 %	0.47	0.51%
Ag 328.068†	96835.0	1.939 mg/L	0.0186	1.939 mg/L	0.0186	0.96%
QC value less than the lower limit for Ag 328.068				Recovery = 77.55%		
Al 396.153†	38701.0	10.18 mg/L	0.023	10.18 mg/L	0.023	0.23%
QC value within limits for Al 396.153				Recovery = 101.80%		
As 188.979†	5560.1	4.847 mg/L	0.0195	4.847 mg/L	0.0195	0.40%
QC value within limits for As 188.979				Recovery = 96.93%		
B 208.889†	32913.5	4.527 mg/L	0.0260	4.527 mg/L	0.0260	0.57%
QC value within limits for B 208.889				Recovery = 90.54%		
Ba 233.527†	16828.7	4.879 mg/L	0.1003	4.879 mg/L	0.1003	2.06%
QC value within limits for Ba 233.527				Recovery = 97.59%		
Be 313.107†	1397809.6	5.113 mg/L	0.1290	5.113 mg/L	0.1290	2.52%
QC value within limits for Be 313.107				Recovery = 102.26%		
Ca 317.933†	55830.5	9.705 mg/L	0.0234	9.705 mg/L	0.0234	0.24%
QC value within limits for Ca 317.933				Recovery = 97.05%		
Cd 228.802†	146180.4	5.069 mg/L	0.0064	5.069 mg/L	0.0064	0.13%
QC value within limits for Cd 228.802				Recovery = 101.37%		
Co 228.616†	141757.5	5.073 mg/L	0.0012	5.073 mg/L	0.0012	0.02%
QC value within limits for Co 228.616				Recovery = 101.46%		
Cr 267.716†	240400.0	5.103 mg/L	0.0008	5.103 mg/L	0.0008	0.02%
QC value within limits for Cr 267.716				Recovery = 102.05%		
Cu 327.393†	500370.1	4.937 mg/L	0.0056	4.937 mg/L	0.0056	0.11%
QC value within limits for Cu 327.393				Recovery = 98.75%		
Fe 238.204†	17040.8	5.070 mg/L	0.0047	5.070 mg/L	0.0047	0.09%
QC value within limits for Fe 238.204				Recovery = 101.39%		
K 766.490†	20609.6	10.32 mg/L	0.041	10.32 mg/L	0.041	0.40%
QC value within limits for K 766.490				Recovery = 103.17%		
Mg 285.213†	110040.8	10.44 mg/L	0.026	10.44 mg/L	0.026	0.25%

QC value within limits for Mg 285.213	Recovery = 104.45%		
Mn 257.610† 113752.4	4.988 mg/L	0.0103	0.21%
QC value within limits for Mn 257.610	Recovery = 99.77%		
Mo 202.031† 70141.2	4.888 mg/L	0.0071	0.14%
QC value within limits for Mo 202.031	Recovery = 97.76%		
Na 589.592† 95478.8	10.20 mg/L	0.013	0.13%
QC value within limits for Na 589.592	Recovery = 102.03%		
Ni 231.604† 114072.7	4.792 mg/L	0.0032	0.07%
QC value within limits for Ni 231.604	Recovery = 95.84%		
Pb 220.353† 17232.7	4.782 mg/L	0.0270	0.56%
QC value within limits for Pb 220.353	Recovery = 95.63%		
Sb 206.836† 9446.0	4.931 mg/L	0.0256	0.52%
QC value within limits for Sb 206.836	Recovery = 98.62%		
Se 196.026† 7849.7	4.877 mg/L	0.0222	0.46%
QC value within limits for Se 196.026	Recovery = 97.54%		
Sn 189.927† 21593.5	4.974 mg/L	0.0225	0.45%
QC value within limits for Sn 189.927	Recovery = 99.47%		
Ti 337.279† 92234.3	5.004 mg/L	0.0103	0.21%
QC value within limits for Ti 337.279	Recovery = 100.07%		
Tl 351.924† 8515.5	2.536 mg/L	0.0120	0.47%
QC value within limits for Tl 351.924	Recovery = 101.43%		
V 290.880† 313894.0	5.150 mg/L	0.0019	0.04%
QC value within limits for V 290.880	Recovery = 103.00%		
Zn 206.200† 91458.8	4.883 mg/L	0.0036	0.07%
QC value within limits for Zn 206.200	Recovery = 97.66%		
Zr 343.823† 834432.1	4.839 mg/L	0.0020	0.04%
QC Failed. Retry.			

Batch ID: OPTIMA 3

Sequence No.: 73

Sample ID: SEQ-CCV@ 23IJ0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 8:56:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140148.0	91.4 %	1.71	91.4 %	1.71	1.87%
Y axial	1836769.4	90.2 %	0.71	90.2 %	0.71	0.79%
Ag 328.068†	100640.3	2.015 mg/L	0.0951	2.015 mg/L	0.0951	4.72%
QC value less than the lower limit for Ag 328.068				Recovery = 80.59%		
Al 396.153†	39132.7	10.29 mg/L	0.044	10.29 mg/L	0.044	0.43%
QC value within limits for Al 396.153				Recovery = 102.92%		
As 188.979†	5648.1	4.923 mg/L	0.1419	4.923 mg/L	0.1419	2.88%
QC value within limits for As 188.979				Recovery = 98.46%		
B 208.889†	34053.1	4.688 mg/L	0.1285	4.688 mg/L	0.1285	2.74%
QC value within limits for B 208.889				Recovery = 93.76%		
Ba 233.527†	17333.1	5.026 mg/L	0.0925	5.026 mg/L	0.0925	1.84%
QC value within limits for Ba 233.527				Recovery = 100.51%		
Be 313.107†	1373604.8	5.024 mg/L	0.0734	5.024 mg/L	0.0734	1.46%
QC value within limits for Be 313.107				Recovery = 100.48%		
Ca 317.933†	56332.5	9.792 mg/L	0.0063	9.792 mg/L	0.0063	0.06%
QC value within limits for Ca 317.933				Recovery = 97.92%		
Cd 228.802†	146670.7	5.085 mg/L	0.0067	5.085 mg/L	0.0067	0.13%
QC value within limits for Cd 228.802				Recovery = 101.70%		
Co 228.616†	141732.7	5.072 mg/L	0.0083	5.072 mg/L	0.0083	0.16%
QC value within limits for Co 228.616				Recovery = 101.44%		
Cr 267.716†	240945.7	5.114 mg/L	0.0021	5.114 mg/L	0.0021	0.04%
QC value within limits for Cr 267.716				Recovery = 102.28%		
Cu 327.393†	502443.6	4.958 mg/L	0.0085	4.958 mg/L	0.0085	0.17%
QC value within limits for Cu 327.393				Recovery = 99.16%		
Fe 238.204†	17180.7	5.111 mg/L	0.0121	5.111 mg/L	0.0121	0.24%
QC value within limits for Fe 238.204				Recovery = 102.22%		
K 766.490†	20810.0	10.42 mg/L	0.107	10.42 mg/L	0.107	1.03%
QC value within limits for K 766.490				Recovery = 104.17%		
Mg 285.213†	110843.4	10.52 mg/L	0.034	10.52 mg/L	0.034	0.33%

QC value within limits for Mg 285.213	Recovery = 105.21%		
Mn 257.610† 115187.7	5.051 mg/L	0.0069	0.14%
QC value within limits for Mn 257.610	Recovery = 101.03%		
Mo 202.031† 71363.1	4.973 mg/L	0.1160	2.33%
QC value within limits for Mo 202.031	Recovery = 99.46%		
Na 589.592† 95462.4	10.20 mg/L	0.163	1.60%
QC value within limits for Na 589.592	Recovery = 102.01%		
Ni 231.604† 113864.1	4.783 mg/L	0.0050	0.10%
QC value within limits for Ni 231.604	Recovery = 95.66%		
Pb 220.353† 17633.4	4.893 mg/L	0.1027	2.10%
QC value within limits for Pb 220.353	Recovery = 97.86%		
Sb 206.836† 9623.7	5.025 mg/L	0.1245	2.48%
QC value within limits for Sb 206.836	Recovery = 100.50%		
Se 196.026† 8028.8	4.988 mg/L	0.1644	3.29%
QC value within limits for Se 196.026	Recovery = 99.77%		
Sn 189.927† 22063.9	5.082 mg/L	0.1228	2.42%
QC value within limits for Sn 189.927	Recovery = 101.64%		
Ti 337.279† 93049.7	5.048 mg/L	0.0062	0.12%
QC value within limits for Ti 337.279	Recovery = 100.96%		
Tl 351.924† 8622.8	2.568 mg/L	0.0666	2.59%
QC value within limits for Tl 351.924	Recovery = 102.72%		
V 290.880† 314689.1	5.165 mg/L	0.0069	0.13%
QC value within limits for V 290.880	Recovery = 103.30%		
Zn 206.200† 91398.3	4.880 mg/L	0.0128	0.26%
QC value within limits for Zn 206.200	Recovery = 97.60%		
Zr 343.823† 835478.4	4.845 mg/L	0.0022	0.05%
QC Failed. Continue with analysis.			

Batch ID: OPTIMA 3

Sequence No.: 74

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 9:01:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	136336.2	88.9 %	1.50	88.9 %	1.50	1.69%
Y axial	1866021.9	91.6 %	2.35	91.6 %	2.35	2.57%
Ag 328.068†	1892.4	0.0379 mg/L	0.00133	0.0379 mg/L	0.00133	3.52%
QC value greater than the upper limit for Ag 328.068	Recovery = Not calculated					
Al 396.153†	3.8	0.0009 mg/L	0.01556	0.0009 mg/L	0.01556	>999.9%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	3.8	0.0033 mg/L	0.00259	0.0033 mg/L	0.00259	78.80%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	196.1	0.0283 mg/L	0.00296	0.0283 mg/L	0.00296	10.46%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	5.4	0.0016 mg/L	0.00051	0.0016 mg/L	0.00051	32.70%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	75.0	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	13.73%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	16.9	0.0029 mg/L	0.00219	0.0029 mg/L	0.00219	74.56%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	25.8	0.0009 mg/L	0.00029	0.0009 mg/L	0.00029	33.67%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	25.7	0.0009 mg/L	0.00017	0.0009 mg/L	0.00017	18.26%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	-12.6	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	11.11%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	243.1	0.0024 mg/L	0.00043	0.0024 mg/L	0.00043	17.94%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	-3.0	-0.0009 mg/L	0.00037	-0.0009 mg/L	0.00037	42.36%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	227.9	0.1141 mg/L	0.05721	0.1141 mg/L	0.05721	50.13%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	30.2	0.0029 mg/L	0.00018	0.0029 mg/L	0.00018	6.45%

QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610† -38.6 -0.0017 mg/L	0.00053 -0.0017 mg/L	0.00053	31.41%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031† 34.3 0.0024 mg/L	0.00043 0.0024 mg/L	0.00043	18.04%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 92.8 0.0099 mg/L	0.01597 0.0099 mg/L	0.01597	161.08%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 61.6 0.0026 mg/L	0.00063 0.0026 mg/L	0.00063	24.32%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353† -7.3 -0.0020 mg/L	0.00213 -0.0020 mg/L	0.00213	105.10%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836† 5.4 0.0028 mg/L	0.00114 0.0028 mg/L	0.00114	40.27%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026† 12.8 0.0079 mg/L	0.00234 0.0079 mg/L	0.00234	29.42%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927† -3.8 -0.0009 mg/L	0.00068 -0.0009 mg/L	0.00068	78.56%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -44.8 -0.0024 mg/L	0.00129 -0.0024 mg/L	0.00129	53.08%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† -35.8 -0.0105 mg/L	0.01757 -0.0105 mg/L	0.01757	166.99%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880† -26.8 -0.0004 mg/L	0.00019 -0.0004 mg/L	0.00019	50.30%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200† 35.7 0.0019 mg/L	0.00042 0.0019 mg/L	0.00042	22.36%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823† 25.4 0.0001 mg/L	0.00015 0.0001 mg/L	0.00015	101.11%
QC Failed. Retry.			

Batch ID: OPTIMA 3

Sequence No.: 75

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 9:05:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	137932.2	89.9 %	1.01	89.9 %	1.01	1.13%
Y axial	1880907.5	92.3 %	1.38	92.3 %	1.38	1.49%
Ag 328.068†	1103.0	0.0221 mg/L	0.00150	0.0221 mg/L	0.00150	6.81%
QC value greater than the upper limit for Ag 328.068				Recovery = Not calculated		
Al 396.153†	-47.2	-0.0128 mg/L	0.01007	-0.0128 mg/L	0.01007	78.91%
QC value within limits for Al 396.153				Recovery = Not calculated		
As 188.979†	4.8	0.0042 mg/L	0.00296	0.0042 mg/L	0.00296	71.00%
QC value within limits for As 188.979				Recovery = Not calculated		
B 208.889†	134.4	0.0194 mg/L	0.00181	0.0194 mg/L	0.00181	9.35%
QC value within limits for B 208.889				Recovery = Not calculated		
Ba 233.527†	2.3	0.0007 mg/L	0.00033	0.0007 mg/L	0.00033	50.83%
QC value within limits for Ba 233.527				Recovery = Not calculated		
Be 313.107†	44.8	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.14%
QC value within limits for Be 313.107				Recovery = Not calculated		
Ca 317.933†	16.4	0.0029 mg/L	0.00353	0.0029 mg/L	0.00353	123.92%
QC value within limits for Ca 317.933				Recovery = Not calculated		
Cd 228.802†	18.0	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	8.52%
QC value within limits for Cd 228.802				Recovery = Not calculated		
Co 228.616†	19.8	0.0007 mg/L	0.00064	0.0007 mg/L	0.00064	89.12%
QC value within limits for Co 228.616				Recovery = Not calculated		
Cr 267.716†	-20.4	-0.0004 mg/L	0.00020	-0.0004 mg/L	0.00020	45.28%
QC value within limits for Cr 267.716				Recovery = Not calculated		
Cu 327.393†	199.0	0.0020 mg/L	0.00019	0.0020 mg/L	0.00019	9.88%
QC value within limits for Cu 327.393				Recovery = Not calculated		
Fe 238.204†	-1.7	-0.0005 mg/L	0.00206	-0.0005 mg/L	0.00206	412.81%
QC value within limits for Fe 238.204				Recovery = Not calculated		
K 766.490†	258.0	0.1292 mg/L	0.06067	0.1292 mg/L	0.06067	46.97%
QC value within limits for K 766.490				Recovery = Not calculated		
Mg 285.213†	25.9	0.0025 mg/L	0.00063	0.0025 mg/L	0.00063	25.73%

QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610† -34.7 -0.0015 mg/L	0.00034 -0.0015 mg/L	0.00034	22.58%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031† 23.4 0.0016 mg/L	0.00052 0.0016 mg/L	0.00052	32.01%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 85.9 0.0092 mg/L	0.00981 0.0092 mg/L	0.00981	106.79%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 51.7 0.0022 mg/L	0.00031 0.0022 mg/L	0.00031	14.01%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353† -9.5 -0.0026 mg/L	0.00226 -0.0026 mg/L	0.00226	85.62%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836† 11.2 0.0058 mg/L	0.00131 0.0058 mg/L	0.00131	22.60%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026† 6.3 0.0039 mg/L	0.00162 0.0039 mg/L	0.00162	41.64%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927† -3.9 -0.0009 mg/L	0.00170 -0.0009 mg/L	0.00170	191.44%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -33.2 -0.0018 mg/L	0.00129 -0.0018 mg/L	0.00129	71.62%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† -26.8 -0.0079 mg/L	0.00549 -0.0079 mg/L	0.00549	69.85%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880† -47.3 -0.0007 mg/L	0.00025 -0.0007 mg/L	0.00025	34.25%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200† 30.0 0.0016 mg/L	0.00045 0.0016 mg/L	0.00045	28.64%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823† 47.0 0.0003 mg/L	0.00023 0.0003 mg/L	0.00023	85.84%
QC Failed. Continue with analysis.			

WET

SAMPLE DATA

267

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-08
Sampled:	04/01/24 14:05		
% Solids:	80.11		

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.1		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-13-04012024

268

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-09

Sampled: 04/01/24 14:55

% Solids: 84.56

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	84.6		1		B370800	04/08/24 11:46	SM 2540G

269

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-10
Sampled:	04/01/24 15:50		
% Solids:	81.58		

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	81.6		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-09-04012024

270

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-11

Sampled: 04/01/24 16:10

% Solids: 79.75

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	79.7		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-08-04012024

271

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-12

Sampled: 04/01/24 16:15

% Solids: 71.10

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	71.1		1		B370800	04/08/24 11:46	SM 2540G

272

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-13
Sampled:	04/01/24 16:20		
% Solids:	72.20		

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	72.2		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-04-04012024

273

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-14

Sampled: 04/01/24 16:35

% Solids: 78.42

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	78.4		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-03-04012024

274

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-15

Sampled: 04/01/24 16:40

% Solids: 75.00

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	75.0		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-06-04012024

275

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-16

Sampled: 04/01/24 17:05

% Solids: 75.41

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	75.4		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-01-04012024

276

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-17

Sampled: 04/01/24 17:25

% Solids: 70.14

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	70.1		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-02-04012024

277

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-18

Sampled: 04/01/24 17:30

% Solids: 79.58

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	79.6		1		B370800	04/08/24 11:46	SM 2540G

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-SD-05-04012024

278

Laboratory: Pace New EnglandSDG: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: SoilLaboratory ID: 24D0729-19

Sampled: 04/01/24 17:40

% Solids: 76.32

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	76.3		1		B370800	04/08/24 11:46	SM 2540G

279

Laboratory:	Pace New England	SDG:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0729-20
Sampled:	04/01/24 17:45		
% Solids:	75.61		

CAS NO.	Analyte	Concentration (% Wt)	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	75.6		1		B370800	04/08/24 11:46	SM 2540G

DUPLICATES

280

152033-SM-SD-14-04012024

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	B370800-DUP1
Batch:	B370800	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	80.11		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	80.1	83.2	3.77		10

DUPLICATES

281

152033-SM-SD-13-04012024

Laboratory:	Pace New England	Work Order:	24D0729
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	B370800-DUP2
Batch:	B370800	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	84.56		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	84.6	83.7	1.02		10

PREPARATION BATCH SUMMARY

282

SM 2540G

Laboratory: Pace New England

Work Order: 24D0729

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Batch: B370800

Batch Matrix: Soil

Preparation: % Solids

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-SD-14-04012024	24D0729-08	04/08/24 11:46	5.00	5.00
152033-SM-SD-13-04012024	24D0729-09	04/08/24 11:46	5.00	5.00
152033-SM-SD-12-04012024	24D0729-10	04/08/24 11:46	5.00	5.00
152033-SM-SD-09-04012024	24D0729-11	04/08/24 11:46	5.00	5.00
152033-SM-SD-08-04012024	24D0729-12	04/08/24 11:46	5.00	5.00
152033-SM-SD-07-04012024	24D0729-13	04/08/24 11:46	5.00	5.00
152033-SM-SD-04-04012024	24D0729-14	04/08/24 11:46	5.00	5.00
152033-SM-SD-03-04012024	24D0729-15	04/08/24 11:46	5.00	5.00
152033-SM-SD-06-04012024	24D0729-16	04/08/24 11:46	5.00	5.00
152033-SM-SD-01-04012024	24D0729-17	04/08/24 11:46	5.00	5.00
152033-SM-SD-02-04012024	24D0729-18	04/08/24 11:46	5.00	5.00
152033-SM-SD-05-04012024	24D0729-19	04/08/24 11:46	5.00	5.00
152033-SM-SD-10-04012024	24D0729-20	04/08/24 11:46	5.00	5.00
152033-SM-SD-14-04012024	B370800-DUP1	04/08/24 11:46	5.00	5.00
152033-SM-SD-13-04012024	B370800-DUP2	04/08/24 11:46	5.00	5.00

D2216-90

Analyst: DV

Test Code: %Moist/%Solids

Batch ID:
B370800

Analyte:

Units: %

Dried at 105°C

TEMP IN: 104 °C

analyst	sample#	dish	Units	dish&sample	Units	time	date	sample	dried dish&sample	Units	time	date	dried sample	% solid
DV	24D0456-01	1.3100	g	17.5150	g	13:39	04/08/2024	16.2050	13.9920	g	20:44	04/08/2024	12.68	78.26
DV	24D0729-08	1.3060	g	16.8780	g	13:42	04/08/2024	15.5720	13.7810	g	20:44	04/08/2024	12.48	80.11
DV	24D0729-09	1.3050	g	18.1800	g	13:43	04/08/2024	16.8750	15.5750	g	20:45	04/08/2024	14.27	84.56
DV	24D0729-10	1.3100	g	16.8670	g	13:44	04/08/2024	15.5570	14.0020	g	20:45	04/08/2024	12.69	81.58
DV	24D0729-11	1.3180	g	16.2110	g	13:45	04/08/2024	14.8930	13.1950	g	20:45	04/08/2024	11.88	79.75
DV	24D0729-12	1.3040	g	10.3120	g	13:46	04/08/2024	9.0080	7.7090	g	20:45	04/08/2024	6.41	71.10
DV	24D0729-13	1.3120	g	12.0810	g	13:46	04/08/2024	10.7690	9.0870	g	20:45	04/08/2024	7.78	72.20
DV	24D0729-14	1.3170	g	14.6440	g	13:47	04/08/2024	13.3270	11.7680	g	20:46	04/08/2024	10.45	78.42
DV	24D0729-15	1.3020	g	11.5320	g	13:48	04/08/2024	10.2300	8.9740	g	20:46	04/08/2024	7.67	75.00
DV	24D0729-16	1.3030	g	17.2170	g	13:48	04/08/2024	15.9140	13.3040	g	20:46	04/08/2024	12.00	75.41
DV	24D0729-17	1.3140	g	11.8910	g	13:49	04/08/2024	10.5770	8.7330	g	20:46	04/08/2024	7.42	70.14
DV	24D0729-18	1.3070	g	14.3310	g	13:50	04/08/2024	13.0240	11.6710	g	20:46	04/08/2024	10.36	79.58
DV	24D0729-19	1.3050	g	13.6320	g	13:50	04/08/2024	12.3270	10.7130	g	20:46	04/08/2024	9.41	76.32
DV	24D0729-20	1.3190	g	16.6340	g	13:51	04/08/2024	15.3150	12.8980	g	20:47	04/08/2024	11.58	75.61
DV	24D0732-01	1.3020	g	13.5420	g	13:52	04/08/2024	12.2400	12.8490	g	20:47	04/08/2024	11.55	94.34
DV	24D0735-01	1.3000	g	14.5670	g	13:53	04/08/2024	13.2670	11.6170	g	20:47	04/08/2024	10.32	77.76
DV	24D0735-02	1.3130	g	11.9530	g	13:53	04/08/2024	10.6400	8.3780	g	20:47	04/08/2024	7.07	66.40
DV	24D0796-02	1.3020	g	11.9470	g	13:54	04/08/2024	10.6450	11.2380	g	20:47	04/08/2024	9.94	93.34
DV	24D0806-01	1.3030	g	11.7530	g	13:55	04/08/2024	10.4500	10.6070	g	20:47	04/08/2024	9.30	89.03
DV	24D0824-01	1.3120	g	12.1440	g	13:57	04/08/2024	10.8320	10.0240	g	20:48	04/08/2024	8.71	80.43
DV	24D0824-02	1.3010	g	10.7110	g	13:57	04/08/2024	9.4100	9.5120	g	20:48	04/08/2024	8.21	87.26
DV	24D0839-06	1.3050	g	10.8570	g	13:58	04/08/2024	9.5520	8.0380	g	20:48	04/08/2024	6.73	70.49
DV	24D0839-07	1.3120	g	12.4010	g	13:59	04/08/2024	11.0890	9.1250	g	20:48	04/08/2024	7.81	70.46
DV	24D0839-08	1.3140	g	11.2310	g	14:00	04/08/2024	9.9170	9.0430	g	20:48	04/08/2024	7.73	77.94
DV	24D0882-01	1.3040	g	12.9720	g	14:01	04/08/2024	11.6680	10.8110	g	20:49	04/08/2024	9.51	81.48
DV	24D0882-02	1.3030	g	11.8110	g	14:02	04/08/2024	10.5080	9.7160	g	20:49	04/08/2024	8.41	80.06
DV	B370800-DUP1	1.3090	g	14.2840	g	14:02	04/08/2024	12.9750	12.1030	g	20:49	04/08/2024	10.79	83.19

TEMP IN: 104 °C

analyst	sample#	dish	Units	dish&sample	Units	time	date	sample	dried dish&sample	Units	time	date	dried sample	% solid
DV	B370800-DUP2	1.3140	g	15.8450	g	14:02	04/08/2024	14.5310	13.4770	g	20:49	04/08/2024	12.16	83.70

Data Package



ANALYTICAL. LIFE. SERVICE.

April 19, 2024

Hilary Williams
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: 425 Union Blvd, West Islip, NY
Client Job Number:
Project Number: 16025-15-00-CP
Laboratory Work Order Number: 24D0735

Enclosed are results of analyses for samples as received by the laboratory on April 5, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
24D0735-01	6
24D0735-02	8
24D0735-03	10
24D0735-04	12
24D0735-05	14
24D0735-06	16
24D0735-07	18
24D0735-08	20
24D0735-09	22
24D0735-10	24
24D0735-11	26
24D0735-12	28
24D0735-13	30
24D0735-14	32
24D0735-15	34
24D0735-16	36
24D0735-17	38
Sample Preparation Information	40
QC Data	42
Metals Analyses (Total)	42
B370650	42
B371416	42

Table of Contents (continued)

B371480	46
Metals Analyses (Dissolved)	47
B370707	47
B371643	50
Flag/Qualifier Summary	51
Certifications	52
Chain of Custody/Sample Receipt	54

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Hilary Williams

REPORT DATE: 4/19/2024

PURCHASE ORDER NUMBER: 3124

PROJECT NUMBER: 16025-15-00-CP

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24D0735

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 425 Union Blvd, West Islip, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
152033-SM-SD-11-04012024	24D0735-01	Soil		SM 2540G SW-846 6010D	
152033-SM-SD-FD-04012024	24D0735-02	Soil		SM 2540G SW-846 6010D	
152033-SM-MW-22B-04022024	24D0735-03	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-22A-04022024	24D0735-04	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-13B-04022024	24D0735-05	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-13A-04022024	24D0735-06	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-9B-04022024	24D0735-07	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-9-04022024	24D0735-08	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-23A-04022024	24D0735-09	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-23B-04022024	24D0735-10	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-17-04032024	24D0735-11	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-15B-04032024	24D0735-12	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-15A-04032024	24D0735-13	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-18-04032024	24D0735-14	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-2-04032024	24D0735-15	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-1-04032024	24D0735-16	Ground Water		SW-846 6010D SW-846 7470A	
152033-SM-MW-FD-04022024	24D0735-17	Ground Water		SW-846 6010D SW-846 7470A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010D**Qualifications:**

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Chromium**B370650-BS1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Sodium**

24D0735-04[152033-SM-MW-22A-04022024], B370707-MS1, B371416-MSD2

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington

Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-11-04012024

Sampled: 4/1/2024 17:55

Sample ID: 24D0735-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.41	0.19	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 16:30	NC
Chromium	2.6	0.82	0.52	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 16:30	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-11-04012024

Sampled: 4/1/2024 17:55

Sample ID: 24D0735-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.8		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

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Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-FD-04012024

Sampled: 4/1/2024 00:00

Sample ID: 24D0735-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	14	0.49	0.23	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 16:40	NC
Chromium	8.0	0.98	0.62	mg/Kg dry	1		SW-846 6010D	4/5/24	4/11/24 16:40	NC

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Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-SD-FD-04012024

Sampled: 4/1/2024 00:00

Sample ID: 24D0735-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.4		% Wt	1		SM 2540G	4/8/24	4/8/24 11:46	DV

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Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-22B-04022024

Sampled: 4/2/2024 09:10

Sample ID: 24D0735-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Barium	0.034	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Calcium	24	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Cobalt	0.0069	0.010	0.0017	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Copper	0.010	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:00	MJH
Iron	3.7	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Magnesium	4.0	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Manganese	1.3	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:04	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Potassium	2.5	2.0	0.33	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Sodium	16	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:00	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:09	MJH

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Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-22B-04022024

Sampled: 4/2/2024 09:10

Sample ID: 24D0735-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Barium	0.022	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 14:45	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Calcium	25	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Magnesium	4.2	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Manganese	0.44	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:27	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Potassium	2.5	2.0	0.33	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Sodium	14	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:45	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 15:57	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-22A-04022024

Sampled: 4/2/2024 09:24

Sample ID: 24D0735-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.049	0.050	0.020	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Barium	0.020	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Calcium	26	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Copper	0.011	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 15:52	MJH
Iron	2.1	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Magnesium	5.0	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Manganese	0.19	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:07	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Potassium	0.86	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Sodium	65	2.0	0.38	mg/L	1	MS-19	SW-846 6010D	4/16/24	4/18/24 15:52	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH
Zinc	0.079	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 15:23	MJH

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Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-22A-04022024

Sampled: 4/2/2024 09:24

Sample ID: 24D0735-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.035	0.050	0.020	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 14:40	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Barium	0.021	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 14:40	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Calcium	32	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Iron	1.8	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Magnesium	6.0	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Manganese	0.21	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:30	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Potassium	0.79	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 14:40	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Sodium	56	2.0	0.74	mg/L	1	MS-19	SW-846 6010D	4/11/24	4/16/24 14:40	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:40	NC
Zinc	0.087	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 15:51	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-13B-04022024

Sampled: 4/2/2024 11:46

Sample ID: 24D0735-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.042	0.050	0.020	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Barium	0.032	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Calcium	8.8	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Chromium	0.018	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Copper	0.011	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:08	MJH
Iron	0.11	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Magnesium	1.5	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Manganese	0.021	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:09	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Sodium	14	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:08	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:15	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-13B-04022024

Sampled: 4/2/2024 11:46

Sample ID: 24D0735-05

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Barium	0.033	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 14:51	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Calcium	9.2	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Chromium	0.018	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Magnesium	1.5	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Manganese	0.012	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:32	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 14:51	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Sodium	12	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 14:51	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:02	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-13A-04022024

Sampled: 4/2/2024 12:38

Sample ID: 24D0735-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.97	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Barium	0.051	0.050	0.0057	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Cadmium	0.54	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Calcium	31	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Cobalt	0.0064	0.010	0.0017	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Copper	0.051	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:15	MJH
Iron	5.5	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Lead	0.015	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Magnesium	5.4	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Manganese	0.31	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:12	AV
Nickel	0.0078	0.010	0.0024	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Potassium	3.3	2.0	0.33	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Sodium	60	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:15	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Vanadium	0.0093	0.010	0.0071	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:20	MJH
Zinc	0.11	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:20	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-13A-04022024

Sampled: 4/2/2024 12:38

Sample ID: 24D0735-06

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Barium	0.033	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:07	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Cadmium	0.50	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Calcium	33	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Iron	0.11	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Magnesium	5.1	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Manganese	0.048	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:35	AV
Nickel	0.0027	0.010	0.0024	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:07	NC
Potassium	3.6	2.0	0.33	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Sodium	58	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:07	NC
Zinc	0.016	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:08	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-9B-04022024

Sampled: 4/2/2024 14:25

Sample ID: 24D0735-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.28	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Barium	0.014	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Calcium	7.7	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:23	MJH
Iron	0.36	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Magnesium	1.3	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Manganese	0.017	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:14	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Sodium	13	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:23	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:26	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-9B-04022024

Sampled: 4/2/2024 14:25

Sample ID: 24D0735-07

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Barium	0.013	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:13	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Calcium	8.0	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Magnesium	1.4	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Manganese	0.011	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:37	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Potassium	1.4	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:13	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Sodium	11	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:13	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:14	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-9-04022024

Sampled: 4/2/2024 14:42

Sample ID: 24D0735-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.33	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Barium	0.023	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Cadmium	0.049	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Calcium	53	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Copper	0.011	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:43	MJH
Iron	0.30	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Magnesium	5.7	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Manganese	0.21	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:24	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Potassium	5.7	2.0	0.33	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Sodium	24	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:43	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:31	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-9-04022024

Sampled: 4/2/2024 14:42

Sample ID: 24D0735-08

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Barium	0.022	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:19	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Cadmium	0.048	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Calcium	53	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Magnesium	5.6	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Manganese	0.20	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:40	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Potassium	5.7	2.0	0.33	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Sodium	23	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:19	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:19	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-23A-04022024

Sampled: 4/2/2024 15:47

Sample ID: 24D0735-09

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.20	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Barium	0.016	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Cadmium	0.0048	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Calcium	28	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Copper	0.033	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:51	MJH
Iron	1.4	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Magnesium	5.1	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Manganese	0.13	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:26	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Potassium	4.0	2.0	0.33	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Sodium	38	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:51	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:37	MJH
Zinc	0.0090	0.010	0.0040	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:37	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-23A-04022024

Sampled: 4/2/2024 15:47

Sample ID: 24D0735-09

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.072	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Barium	0.015	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:24	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Calcium	28	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Iron	0.88	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Magnesium	5.2	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Manganese	0.13	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:42	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Potassium	4.1	2.0	0.33	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Sodium	37	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:24	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:25	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-23B-04022024

Sampled: 4/2/2024 16:30

Sample ID: 24D0735-10

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1.6	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Barium	0.031	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Cadmium	0.0031	0.0040	0.0013	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Calcium	7.8	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Cobalt	0.0021	0.010	0.0017	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Copper	0.039	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:59	MJH
Iron	3.5	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Lead	0.0076	0.010	0.0065	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Magnesium	1.8	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Manganese	0.082	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:29	AV
Nickel	0.0065	0.010	0.0024	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Potassium	0.85	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Sodium	10	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 16:59	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Vanadium	0.012	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH
Zinc	0.18	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:42	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-23B-04022024

Sampled: 4/2/2024 16:30

Sample ID: 24D0735-10

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Barium	0.0094	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:30	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Calcium	5.9	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Copper	0.0073	0.010	0.0047	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:30	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Magnesium	0.92	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Manganese	0.0031	0.010	0.0028	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:30	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:45	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Potassium	0.54	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:30	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Sodium	9.4	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:30	NC
Zinc	0.036	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:30	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-17-04032024

Sampled: 4/3/2024 08:19

Sample ID: 24D0735-11

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.075	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Barium	0.013	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Calcium	19	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Copper	0.0095	0.010	0.0095	mg/L	1	J	SW-846 6010D	4/16/24	4/18/24 17:07	MJH
Iron	0.076	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Magnesium	5.8	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:31	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Sodium	13	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:07	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:48	MJH
Zinc	0.0048	0.010	0.0040	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:48	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-17-04032024

Sampled: 4/3/2024 08:19

Sample ID: 24D0735-11

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Barium	0.014	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:35	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Calcium	20	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Magnesium	6.1	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 19:47	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Potassium	1.5	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:35	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Sodium	12	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:35	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:36	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-15B-04032024

Sampled: 4/3/2024 09:36

Sample ID: 24D0735-12

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Barium	0.040	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Calcium	12	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:14	MJH
Iron	2.3	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Magnesium	5.2	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Manganese	0.13	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:34	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Potassium	1.4	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Sodium	37	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:14	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:54	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-15B-04032024

Sampled: 4/3/2024 09:36

Sample ID: 24D0735-12

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Barium	0.041	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:41	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Calcium	13	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Iron	2.3	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Magnesium	5.5	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Manganese	0.14	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 12:58	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Potassium	1.4	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:41	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Sodium	34	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:41	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:41	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-15A-04032024

Sampled: 4/3/2024 09:40

Sample ID: 24D0735-13

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.072	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Barium	0.012	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Cadmium	0.027	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Calcium	15	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Copper	0.011	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:22	MJH
Iron	0.14	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Magnesium	1.6	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Manganese	0.47	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:36	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Potassium	1.8	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Sodium	11	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:22	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 16:59	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-15A-04032024

Sampled: 4/3/2024 09:40

Sample ID: 24D0735-13

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Barium	0.0086	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:46	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Cadmium	0.0014	0.0040	0.0013	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:46	NC
Calcium	16	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Magnesium	1.7	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 13:07	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Potassium	1.9	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:46	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Sodium	9.7	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:46	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 16:58	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-18-04032024

Sampled: 4/3/2024 10:34

Sample ID: 24D0735-14

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.048	0.050	0.020	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Barium	0.0076	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Calcium	16	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:30	MJH
Iron	0.062	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Magnesium	1.7	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Manganese	0.18	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:39	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Potassium	0.71	2.0	0.33	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Sodium	5.6	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:30	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:16	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-18-04032024

Sampled: 4/3/2024 10:34

Sample ID: 24D0735-14

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Barium	ND	0.050	0.0057	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Cadmium	ND	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Calcium	16	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Magnesium	1.7	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 13:10	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Potassium	0.72	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:52	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Sodium	5.2	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:52	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 17:04	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-2-04032024

Sampled: 4/3/2024 11:35

Sample ID: 24D0735-15

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.044	0.050	0.020	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Barium	0.044	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Cadmium	0.0040	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Calcium	32	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:38	MJH
Iron	0.054	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Magnesium	4.0	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Manganese	0.0034	0.010	0.0028	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:41	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Potassium	3.3	2.0	0.47	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:38	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Sodium	55	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:38	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH
Zinc	ND	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:42	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-2-04032024

Sampled: 4/3/2024 11:35

Sample ID: 24D0735-15

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Barium	0.044	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:57	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Cadmium	0.0040	0.0040	0.0013	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 15:57	NC
Calcium	32	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Iron	ND	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Magnesium	4.2	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Manganese	ND	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 13:12	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Potassium	2.8	2.0	0.33	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Sodium	51	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 15:57	NC
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 17:09	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-1-04032024

Sampled: 4/3/2024 12:45

Sample ID: 24D0735-16

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.044	0.050	0.020	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Barium	0.025	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Cadmium	0.0055	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Calcium	19	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Cobalt	0.0047	0.010	0.0017	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:43	MJH
Iron	0.79	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Magnesium	2.7	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Manganese	0.54	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:44	AV
Nickel	0.0025	0.010	0.0024	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Potassium	2.2	2.0	0.47	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:43	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Sodium	32	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:43	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH
Zinc	0.060	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:47	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-1-04032024

Sampled: 4/3/2024 12:45

Sample ID: 24D0735-16

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Barium	0.023	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 16:24	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Cadmium	0.0050	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Calcium	19	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Cobalt	0.0044	0.010	0.0017	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 16:24	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Iron	0.045	0.050	0.023	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 16:24	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Magnesium	2.8	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Manganese	0.52	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 13:15	AV
Nickel	ND	0.010	0.0024	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Potassium	2.0	2.0	0.33	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 16:24	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Sodium	29	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:24	NC
Zinc	0.041	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 17:15	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-FD-04022024

Sampled: 4/2/2024 00:00

Sample ID: 24D0735-17

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.90	0.050	0.020	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Barium	0.049	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Cadmium	0.52	0.0040	0.0013	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Calcium	32	0.50	0.091	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Cobalt	0.0059	0.010	0.0017	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Copper	0.042	0.010	0.0095	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:51	MJH
Iron	5.1	0.050	0.023	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Lead	0.013	0.010	0.0065	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Magnesium	5.5	0.050	0.016	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Manganese	0.28	0.010	0.0028	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/15/24	4/16/24 10:46	AV
Nickel	0.0070	0.010	0.0024	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Potassium	3.7	2.0	0.47	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:51	MJH
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Sodium	61	2.0	0.38	mg/L	1		SW-846 6010D	4/16/24	4/18/24 17:51	MJH
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Vanadium	0.0081	0.010	0.0071	mg/L	1	J	SW-846 6010D	4/16/24	4/17/24 17:53	MJH
Zinc	0.10	0.010	0.0040	mg/L	1		SW-846 6010D	4/16/24	4/17/24 17:53	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 425 Union Blvd, West Islip, NY

Sample Description:

Work Order: 24D0735

Date Received: 4/5/2024

Field Sample #: 152033-SM-MW-FD-04022024

Sampled: 4/2/2024 00:00

Sample ID: 24D0735-17

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.020	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Arsenic	ND	0.010	0.0073	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Barium	0.033	0.050	0.0057	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 16:30	NC
Beryllium	ND	0.0040	0.0012	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Cadmium	0.48	0.0040	0.0013	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Calcium	33	0.50	0.091	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Chromium	ND	0.010	0.0093	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Cobalt	ND	0.010	0.0017	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Copper	ND	0.010	0.0047	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Iron	0.10	0.050	0.023	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Lead	ND	0.010	0.0065	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Magnesium	5.1	0.050	0.016	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Manganese	0.046	0.010	0.0028	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	4/16/24	4/17/24 13:18	AV
Nickel	0.0024	0.010	0.0024	mg/L	1	J	SW-846 6010D	4/11/24	4/16/24 16:30	NC
Potassium	3.7	2.0	0.33	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Selenium	ND	0.050	0.018	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Silver	ND	0.010	0.0027	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Sodium	58	2.0	0.74	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Thallium	ND	0.050	0.019	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Vanadium	ND	0.010	0.0071	mg/L	1		SW-846 6010D	4/11/24	4/16/24 16:30	NC
Zinc	0.011	0.010	0.0080	mg/L	1		SW-846 6010D	4/11/24	4/18/24 17:21	HNN

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method:**% Solids **Analytical Method:**SM 2540G

Lab Number [Field ID]	Batch	Date
24D0735-01 [152033-SM-SD-11-04012024]	B370800	04/08/24
24D0735-02 [152033-SM-SD-FD-04012024]	B370800	04/08/24

Prep Method:SW-846 3050B **Analytical Method:**SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24D0735-01 [152033-SM-SD-11-04012024]	B370650	1.58	50.0	04/05/24
24D0735-02 [152033-SM-SD-FD-04012024]	B370650	1.54	50.0	04/05/24

Prep Method:SW-846 3005A Dissolved **Analytical Method:**SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24D0735-03 [152033-SM-MW-22B-04022024]	B370707	50.0	50.0	04/11/24
24D0735-04 [152033-SM-MW-22A-04022024]	B370707	50.0	50.0	04/11/24
24D0735-05 [152033-SM-MW-13B-04022024]	B370707	50.0	50.0	04/11/24
24D0735-06 [152033-SM-MW-13A-04022024]	B370707	50.0	50.0	04/11/24
24D0735-07 [152033-SM-MW-9B-04022024]	B370707	50.0	50.0	04/11/24
24D0735-08 [152033-SM-MW-9-04022024]	B370707	50.0	50.0	04/11/24
24D0735-09 [152033-SM-MW-23A-04022024]	B370707	50.0	50.0	04/11/24
24D0735-10 [152033-SM-MW-23B-04022024]	B370707	50.0	50.0	04/11/24
24D0735-11 [152033-SM-MW-17-04032024]	B370707	50.0	50.0	04/11/24
24D0735-12 [152033-SM-MW-15B-04032024]	B370707	50.0	50.0	04/11/24
24D0735-13 [152033-SM-MW-15A-04032024]	B370707	50.0	50.0	04/11/24
24D0735-14 [152033-SM-MW-18-04032024]	B370707	50.0	50.0	04/11/24
24D0735-15 [152033-SM-MW-2-04032024]	B370707	50.0	50.0	04/11/24
24D0735-16 [152033-SM-MW-1-04032024]	B370707	50.0	50.0	04/11/24
24D0735-17 [152033-SM-MW-FD-04022024]	B370707	50.0	50.0	04/11/24

Prep Method:SW-846 3005A **Analytical Method:**SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24D0735-03 [152033-SM-MW-22B-04022024]	B371416	50.0	50.0	04/16/24
24D0735-04 [152033-SM-MW-22A-04022024]	B371416	50.0	50.0	04/16/24
24D0735-05 [152033-SM-MW-13B-04022024]	B371416	50.0	50.0	04/16/24
24D0735-06 [152033-SM-MW-13A-04022024]	B371416	50.0	50.0	04/16/24
24D0735-07 [152033-SM-MW-9B-04022024]	B371416	50.0	50.0	04/16/24
24D0735-08 [152033-SM-MW-9-04022024]	B371416	50.0	50.0	04/16/24
24D0735-09 [152033-SM-MW-23A-04022024]	B371416	50.0	50.0	04/16/24
24D0735-10 [152033-SM-MW-23B-04022024]	B371416	50.0	50.0	04/16/24
24D0735-11 [152033-SM-MW-17-04032024]	B371416	50.0	50.0	04/16/24
24D0735-12 [152033-SM-MW-15B-04032024]	B371416	50.0	50.0	04/16/24
24D0735-13 [152033-SM-MW-15A-04032024]	B371416	50.0	50.0	04/16/24
24D0735-14 [152033-SM-MW-18-04032024]	B371416	50.0	50.0	04/16/24
24D0735-15 [152033-SM-MW-2-04032024]	B371416	50.0	50.0	04/16/24
24D0735-16 [152033-SM-MW-1-04032024]	B371416	50.0	50.0	04/16/24
24D0735-17 [152033-SM-MW-FD-04022024]	B371416	50.0	50.0	04/16/24

Prep Method:SW-846 7470A Prep **Analytical Method:**SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24D0735-03 [152033-SM-MW-22B-04022024]	B371480	10.0	10.0	04/15/24
24D0735-04 [152033-SM-MW-22A-04022024]	B371480	10.0	10.0	04/15/24
24D0735-05 [152033-SM-MW-13B-04022024]	B371480	10.0	10.0	04/15/24
24D0735-06 [152033-SM-MW-13A-04022024]	B371480	10.0	10.0	04/15/24
24D0735-07 [152033-SM-MW-9B-04022024]	B371480	10.0	10.0	04/15/24
24D0735-08 [152033-SM-MW-9-04022024]	B371480	10.0	10.0	04/15/24
24D0735-09 [152033-SM-MW-23A-04022024]	B371480	10.0	10.0	04/15/24
24D0735-10 [152033-SM-MW-23B-04022024]	B371480	10.0	10.0	04/15/24
24D0735-11 [152033-SM-MW-17-04032024]	B371480	10.0	10.0	04/15/24
24D0735-12 [152033-SM-MW-15B-04032024]	B371480	10.0	10.0	04/15/24
24D0735-13 [152033-SM-MW-15A-04032024]	B371480	10.0	10.0	04/15/24
24D0735-14 [152033-SM-MW-18-04032024]	B371480	10.0	10.0	04/15/24
24D0735-15 [152033-SM-MW-2-04032024]	B371480	10.0	10.0	04/15/24
24D0735-16 [152033-SM-MW-1-04032024]	B371480	10.0	10.0	04/15/24
24D0735-17 [152033-SM-MW-FD-04022024]	B371480	10.0	10.0	04/15/24

Prep Method:SW-846 7470A Dissolved Analytical Method:SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24D0735-03 [152033-SM-MW-22B-04022024]	B371643	10.0	10.0	04/16/24
24D0735-04 [152033-SM-MW-22A-04022024]	B371643	10.0	10.0	04/16/24
24D0735-05 [152033-SM-MW-13B-04022024]	B371643	10.0	10.0	04/16/24
24D0735-06 [152033-SM-MW-13A-04022024]	B371643	10.0	10.0	04/16/24
24D0735-07 [152033-SM-MW-9B-04022024]	B371643	10.0	10.0	04/16/24
24D0735-08 [152033-SM-MW-9-04022024]	B371643	10.0	10.0	04/16/24
24D0735-09 [152033-SM-MW-23A-04022024]	B371643	10.0	10.0	04/16/24
24D0735-10 [152033-SM-MW-23B-04022024]	B371643	10.0	10.0	04/16/24
24D0735-11 [152033-SM-MW-17-04032024]	B371643	10.0	10.0	04/16/24
24D0735-12 [152033-SM-MW-15B-04032024]	B371643	10.0	10.0	04/16/24
24D0735-13 [152033-SM-MW-15A-04032024]	B371643	10.0	10.0	04/16/24
24D0735-14 [152033-SM-MW-18-04032024]	B371643	10.0	10.0	04/16/24
24D0735-15 [152033-SM-MW-2-04032024]	B371643	10.0	10.0	04/16/24
24D0735-16 [152033-SM-MW-1-04032024]	B371643	10.0	10.0	04/16/24
24D0735-17 [152033-SM-MW-FD-04022024]	B371643	10.0	10.0	04/16/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B370650 - SW-846 3050B										
Blank (B370650-BLK1)				Prepared: 04/05/24 Analyzed: 04/11/24						
Cadmium	ND	0.33	mg/Kg wet							
Chromium	ND	0.66	mg/Kg wet							
LCS (B370650-BS1)				Prepared: 04/05/24 Analyzed: 04/11/24						
Cadmium	242	0.99	mg/Kg wet	212		114	82.5-117.9			
Chromium	220	2.0	mg/Kg wet	180		122	* 81.1-118.3			L-07
LCS Dup (B370650-BSD1)				Prepared: 04/05/24 Analyzed: 04/11/24						
Cadmium	212	0.99	mg/Kg wet	212		100	82.5-117.9	13.1	20	
Chromium	184	2.0	mg/Kg wet	180		102	81.1-118.3	17.8	30	
Dilution Check (B370650-SRL1)				Source: 24D0729-08		Prepared: 04/05/24 Analyzed: 04/11/24				
Cadmium	ND	2.1	mg/Kg dry		ND				20	
Chromium	ND	4.1	mg/Kg dry		ND				20	
Batch B371416 - SW-846 3005A										
Blank (B371416-BLK1)				Prepared: 04/13/24 Analyzed: 04/17/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B371416-BLK2)				Prepared: 04/13/24 Analyzed: 04/18/24						
Sodium	ND	2.0	mg/L							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B371416 - SW-846 3005A
Blank (B371416-BLK3)

Prepared: 04/13/24 Analyzed: 04/19/24

Copper	ND	0.010	mg/L

LCS (B371416-BS1)

Prepared: 04/13/24 Analyzed: 04/17/24

Aluminum	0.495	0.050	mg/L	0.500		99.0	80-120
Antimony	0.491	0.050	mg/L	0.500		98.3	80-120
Arsenic	0.471	0.010	mg/L	0.500		94.1	80-120
Barium	0.500	0.050	mg/L	0.500		100	80-120
Beryllium	0.490	0.0040	mg/L	0.500		97.9	80-120
Cadmium	0.495	0.0040	mg/L	0.500		99.0	80-120
Calcium	3.78	0.50	mg/L	4.00		94.5	80-120
Chromium	0.498	0.010	mg/L	0.500		99.6	80-120
Cobalt	0.493	0.010	mg/L	0.500		98.7	80-120
Iron	3.77	0.050	mg/L	4.00		94.2	80-120
Lead	0.492	0.010	mg/L	0.500		98.5	80-120
Magnesium	3.84	0.050	mg/L	4.00		96.0	80-120
Manganese	0.470	0.010	mg/L	0.500		94.0	80-120
Nickel	0.497	0.010	mg/L	0.500		99.5	80-120
Potassium	3.78	2.0	mg/L	4.00		94.5	80-120
Selenium	0.495	0.050	mg/L	0.500		98.9	80-120
Silver	0.517	0.010	mg/L	0.500		103	80-120
Thallium	0.476	0.050	mg/L	0.500		95.1	80-120
Vanadium	0.494	0.010	mg/L	0.500		98.9	80-120
Zinc	1.00	0.010	mg/L	1.00		100	80-120

LCS (B371416-BS2)

Prepared: 04/13/24 Analyzed: 04/18/24

Copper	0.991	0.010	mg/L	1.00		99.1	80-120
Sodium	4.05	2.0	mg/L	4.00		101	80-120

LCS Dup (B371416-BSD1)

Prepared: 04/13/24 Analyzed: 04/17/24

Aluminum	0.478	0.050	mg/L	0.500		95.6	80-120	3.55	30
Antimony	0.488	0.050	mg/L	0.500		97.6	80-120	0.682	20
Arsenic	0.466	0.010	mg/L	0.500		93.2	80-120	0.946	20
Barium	0.495	0.050	mg/L	0.500		99.0	80-120	1.01	20
Beryllium	0.484	0.0040	mg/L	0.500		96.8	80-120	1.15	20
Cadmium	0.491	0.0040	mg/L	0.500		98.2	80-120	0.821	20
Calcium	3.72	0.50	mg/L	4.00		92.9	80-120	1.70	20
Chromium	0.493	0.010	mg/L	0.500		98.6	80-120	0.963	20
Cobalt	0.488	0.010	mg/L	0.500		97.6	80-120	1.09	20
Iron	3.71	0.050	mg/L	4.00		92.6	80-120	1.72	20
Lead	0.490	0.010	mg/L	0.500		98.1	80-120	0.401	20
Magnesium	3.77	0.050	mg/L	4.00		94.3	80-120	1.82	20
Manganese	0.466	0.010	mg/L	0.500		93.2	80-120	0.871	20
Nickel	0.493	0.010	mg/L	0.500		98.5	80-120	0.932	30
Potassium	3.80	2.0	mg/L	4.00		95.0	80-120	0.499	20
Selenium	0.495	0.050	mg/L	0.500		99.1	80-120	0.124	20
Silver	0.513	0.010	mg/L	0.500		103	80-120	0.778	20
Thallium	0.475	0.050	mg/L	0.500		95.0	80-120	0.0779	20
Vanadium	0.489	0.010	mg/L	0.500		97.8	80-120	1.09	20
Zinc	0.992	0.010	mg/L	1.00		99.2	80-120	0.839	20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B371416 - SW-846 3005A
LCS Dup (B371416-BSD2)

Prepared: 04/13/24 Analyzed: 04/18/24

Copper	0.992	0.010	mg/L	1.00		99.2	80-120	0.0976	20	
Sodium	4.04	2.0	mg/L	4.00		101	80-120	0.211	20	

Matrix Spike (B371416-MS1)
Source: 24D0735-04

Prepared: 04/13/24 Analyzed: 04/17/24

Aluminum	0.543	0.050	mg/L	0.500	0.0495	98.7	75-125			
Antimony	0.495	0.050	mg/L	0.500	ND	99.0	75-125			
Arsenic	0.475	0.010	mg/L	0.500	ND	95.0	75-125			
Barium	0.509	0.050	mg/L	0.500	0.0197	97.8	75-125			
Beryllium	0.488	0.0040	mg/L	0.500	ND	97.5	75-125			
Cadmium	0.495	0.0040	mg/L	0.500	ND	98.9	75-125			
Calcium	30.3	0.50	mg/L	4.00	26.4	97.7	75-125			
Chromium	0.494	0.010	mg/L	0.500	ND	98.7	75-125			
Cobalt	0.484	0.010	mg/L	0.500	ND	96.8	75-125			
Iron	5.88	0.050	mg/L	4.00	2.15	93.4	75-125			
Lead	0.482	0.010	mg/L	0.500	ND	96.5	75-125			
Magnesium	8.73	0.050	mg/L	4.00	4.98	93.7	75-125			
Manganese	0.649	0.010	mg/L	0.500	0.185	92.7	75-125			
Nickel	0.485	0.010	mg/L	0.500	ND	97.1	75-125			
Potassium	4.66	2.0	mg/L	4.00	0.858	95.0	75-125			
Selenium	0.500	0.050	mg/L	0.500	ND	100	75-125			
Silver	0.510	0.010	mg/L	0.500	ND	102	75-125			
Thallium	0.492	0.050	mg/L	0.500	ND	98.5	75-125			
Vanadium	0.495	0.010	mg/L	0.500	ND	99.0	75-125			
Zinc	1.07	0.010	mg/L	1.00	0.0787	99.2	75-125			

Matrix Spike (B371416-MS2)
Source: 24D0735-04

Prepared: 04/13/24 Analyzed: 04/18/24

Copper	1.03	0.010	mg/L	1.00	0.0113	102	75-125			
Sodium	69.2	2.0	mg/L	4.00	65.2	99.4	75-125			

Matrix Spike Dup (B371416-MSD1)
Source: 24D0735-04

Prepared: 04/13/24 Analyzed: 04/17/24

Aluminum	0.552	0.050	mg/L	0.500	0.0495	101	75-125	1.64	20	
Antimony	0.486	0.050	mg/L	0.500	ND	97.2	75-125	1.84	20	
Arsenic	0.465	0.010	mg/L	0.500	ND	93.0	75-125	2.11	20	
Barium	0.501	0.050	mg/L	0.500	0.0197	96.3	75-125	1.48	20	
Beryllium	0.479	0.0040	mg/L	0.500	ND	95.8	75-125	1.81	20	
Cadmium	0.487	0.0040	mg/L	0.500	ND	97.5	75-125	1.47	20	
Calcium	30.0	0.50	mg/L	4.00	26.4	89.3	75-125	1.11	20	
Chromium	0.486	0.010	mg/L	0.500	ND	97.3	75-125	1.48	20	
Cobalt	0.477	0.010	mg/L	0.500	ND	95.4	75-125	1.42	20	
Iron	5.95	0.050	mg/L	4.00	2.15	95.1	75-125	1.19	20	
Lead	0.474	0.010	mg/L	0.500	ND	94.9	75-125	1.68	20	
Magnesium	8.73	0.050	mg/L	4.00	4.98	93.7	75-125	0.0216	20	
Manganese	0.655	0.010	mg/L	0.500	0.185	93.8	75-125	0.871	20	
Nickel	0.479	0.010	mg/L	0.500	ND	95.7	75-125	1.37	20	
Potassium	4.56	2.0	mg/L	4.00	0.858	92.6	75-125	2.07	20	
Selenium	0.491	0.050	mg/L	0.500	ND	98.3	75-125	1.73	20	
Silver	0.502	0.010	mg/L	0.500	ND	100	75-125	1.53	20	
Thallium	0.487	0.050	mg/L	0.500	ND	97.4	75-125	1.06	20	
Vanadium	0.488	0.010	mg/L	0.500	ND	97.5	75-125	1.46	20	
Zinc	1.05	0.010	mg/L	1.00	0.0787	97.3	75-125	1.81	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B371416 - SW-846 3005A

Matrix Spike Dup (B371416-MSD2)

Source: 24D0735-04

Prepared: 04/13/24 Analyzed: 04/18/24

Copper	1.03	0.010	mg/L	1.00	0.0113	102	75-125	0.167	20	
Sodium	71.3	2.0	mg/L	4.00	65.2	151 *	75-125	2.95	20	MS-19

Post Spike (B371416-PS1)

Source: 24D0735-04

Prepared: 04/13/24 Analyzed: 04/17/24

Aluminum	2.01		mg/L	2.00	0.0485	98.1	75-125			
Antimony	1.94		mg/L	2.00	0.00290	96.6	75-125			
Arsenic	1.87		mg/L	2.00	-0.00551	93.7	75-125			
Barium	1.92		mg/L	2.00	0.0193	95.2	75-125			
Beryllium	1.94		mg/L	2.00	-0.0000480	97.1	75-125			
Cadmium	1.92		mg/L	2.00	0.00115	96.2	75-125			
Calcium	40.8		mg/L	16.0	25.9	93.7	75-125			
Chromium	1.91		mg/L	2.00	0.00454	95.1	75-125			
Cobalt	1.87		mg/L	2.00	0.000647	93.7	75-125			
Iron	16.8		mg/L	16.0	2.10	92.1	75-125			
Lead	1.87		mg/L	2.00	0.00137	93.6	75-125			
Magnesium	19.9		mg/L	16.0	4.88	94.2	75-125			
Manganese	2.03		mg/L	2.00	0.182	92.3	75-125			
Nickel	1.88		mg/L	2.00	0.00170	93.7	75-125			
Potassium	16.6		mg/L	16.0	0.841	98.3	75-125			
Selenium	1.96		mg/L	2.00	0.000101	97.9	75-125			
Silver	1.90		mg/L	2.00	0.000878	95.0	75-125			
Thallium	2.01		mg/L	2.00	0.000774	100	75-125			
Vanadium	1.92		mg/L	2.00	0.00480	96.0	75-125			
Zinc	3.87		mg/L	4.00	0.0772	94.8	75-125			

Dilution Check (B371416-SRL1)

Source: 24D0735-04

Prepared: 04/13/24 Analyzed: 04/17/24

Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	ND	0.25	mg/L		ND				20	
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	26.1	2.5	mg/L		26.4			1.19	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Iron	2.13	0.25	mg/L		2.15			0.809	20	
Lead	ND	0.050	mg/L		ND				20	
Magnesium	4.83	0.25	mg/L		4.98			2.93	20	
Manganese	0.184	0.050	mg/L		0.185			0.742	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	ND	10	mg/L		ND				20	
Selenium	ND	0.25	mg/L		ND				20	
Silver	0.0146	0.050	mg/L		ND				20	J
Thallium	ND	0.25	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	
Zinc	0.0722	0.050	mg/L		0.0787			8.69	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B371480 - SW-846 7470A Prep
Blank (B371480-BLK1)

Prepared: 04/15/24 Analyzed: 04/16/24

Mercury ND 0.00020 mg/L

LCS (B371480-BS1)

Prepared: 04/15/24 Analyzed: 04/16/24

Mercury 0.00423 0.00020 mg/L 0.00402 105 80-120

LCS Dup (B371480-BSD1)

Prepared: 04/15/24 Analyzed: 04/16/24

Mercury 0.00424 0.00020 mg/L 0.00402 105 80-120 0.225 20

Matrix Spike (B371480-MS1)
Source: 24D0735-04

Prepared: 04/15/24 Analyzed: 04/16/24

Mercury 0.00418 0.00020 mg/L 0.00402 ND 104 75-125

Matrix Spike Dup (B371480-MSD1)
Source: 24D0735-04

Prepared: 04/15/24 Analyzed: 04/16/24

Mercury 0.00408 0.00020 mg/L 0.00402 ND 102 75-125 2.42 20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B370707 - SW-846 3005A Dissolved
Blank (B370707-BLK1)

Prepared: 04/05/24 Analyzed: 04/16/24

Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							

Blank (B370707-BLK2)

Prepared: 04/05/24 Analyzed: 04/18/24

Zinc	ND	0.010	mg/L							

LCS (B370707-BS1)

Prepared: 04/05/24 Analyzed: 04/16/24

Aluminum	0.493	0.050	mg/L	0.500		98.5	80-120
Antimony	0.506	0.050	mg/L	0.500		101	80-120
Arsenic	0.484	0.010	mg/L	0.500		96.8	80-120
Barium	0.520	0.050	mg/L	0.500		104	80-120
Beryllium	0.512	0.0040	mg/L	0.500		102	80-120
Cadmium	0.511	0.0040	mg/L	0.500		102	80-120
Calcium	3.97	0.50	mg/L	4.00		99.2	80-120
Chromium	0.511	0.010	mg/L	0.500		102	80-120
Cobalt	0.513	0.010	mg/L	0.500		103	80-120
Copper	0.994	0.010	mg/L	1.00		99.4	80-120
Iron	4.01	0.050	mg/L	4.00		100	80-120
Lead	0.511	0.010	mg/L	0.500		102	80-120
Magnesium	4.06	0.050	mg/L	4.00		102	80-120
Manganese	0.504	0.010	mg/L	0.500		101	80-120
Nickel	0.514	0.010	mg/L	0.500		103	80-120
Potassium	3.95	2.0	mg/L	4.00		98.8	80-120
Selenium	0.514	0.050	mg/L	0.500		103	80-120
Silver	0.529	0.010	mg/L	0.500		106	80-120
Sodium	3.84	2.0	mg/L	4.00		95.9	80-120
Thallium	0.494	0.050	mg/L	0.500		98.8	80-120
Vanadium	0.511	0.010	mg/L	0.500		102	80-120

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B370707 - SW-846 3005A Dissolved
LCS (B370707-BS2)

Prepared: 04/05/24 Analyzed: 04/18/24

Zinc	1.00	0.010	mg/L	1.00		100	80-120			

LCS Dup (B370707-BSD1)

Prepared: 04/05/24 Analyzed: 04/16/24

Aluminum	0.507	0.050	mg/L	0.500		101	80-120	2.82	20	
Antimony	0.508	0.050	mg/L	0.500		102	80-120	0.500	20	
Arsenic	0.490	0.010	mg/L	0.500		98.0	80-120	1.25	20	
Barium	0.519	0.050	mg/L	0.500		104	80-120	0.218	20	
Beryllium	0.518	0.0040	mg/L	0.500		104	80-120	1.26	20	
Cadmium	0.510	0.0040	mg/L	0.500		102	80-120	0.210	20	
Calcium	4.03	0.50	mg/L	4.00		101	80-120	1.56	20	
Chromium	0.509	0.010	mg/L	0.500		102	80-120	0.368	20	
Cobalt	0.514	0.010	mg/L	0.500		103	80-120	0.133	20	
Copper	0.989	0.010	mg/L	1.00		98.9	80-120	0.529	20	
Iron	4.12	0.050	mg/L	4.00		103	80-120	2.51	20	
Lead	0.511	0.010	mg/L	0.500		102	80-120	0.120	20	
Magnesium	4.15	0.050	mg/L	4.00		104	80-120	2.05	20	
Manganese	0.515	0.010	mg/L	0.500		103	80-120	2.19	20	
Nickel	0.512	0.010	mg/L	0.500		102	80-120	0.421	20	
Potassium	3.94	2.0	mg/L	4.00		98.5	80-120	0.312	20	
Selenium	0.521	0.050	mg/L	0.500		104	80-120	1.26	20	
Silver	0.529	0.010	mg/L	0.500		106	80-120	0.108	20	
Sodium	3.71	2.0	mg/L	4.00		92.8	80-120	3.31	20	
Thallium	0.498	0.050	mg/L	0.500		99.6	80-120	0.886	20	
Vanadium	0.511	0.010	mg/L	0.500		102	80-120	0.0787	20	

LCS Dup (B370707-BSD2)

Prepared: 04/05/24 Analyzed: 04/18/24

Zinc	1.02	0.010	mg/L	1.00		102	80-120	1.69	20	

Matrix Spike (B370707-MS1)
Source: 24D0735-04

Prepared: 04/05/24 Analyzed: 04/16/24

Aluminum	0.552	0.050	mg/L	0.500	0.0354	103	75-125			
Antimony	0.518	0.050	mg/L	0.500	ND	104	75-125			
Arsenic	0.500	0.010	mg/L	0.500	ND	99.9	75-125			
Barium	0.538	0.050	mg/L	0.500	0.0205	103	75-125			
Beryllium	0.529	0.0040	mg/L	0.500	ND	106	75-125			
Cadmium	0.517	0.0040	mg/L	0.500	ND	103	75-125			
Calcium	36.1	0.50	mg/L	4.00	31.6	110	75-125			
Chromium	0.519	0.010	mg/L	0.500	ND	104	75-125			
Cobalt	0.511	0.010	mg/L	0.500	ND	102	75-125			
Copper	1.04	0.010	mg/L	1.00	ND	104	75-125			
Iron	5.91	0.050	mg/L	4.00	1.81	103	75-125			
Lead	0.504	0.010	mg/L	0.500	ND	101	75-125			
Magnesium	10.1	0.050	mg/L	4.00	6.02	102	75-125			
Manganese	0.725	0.010	mg/L	0.500	0.213	102	75-125			
Nickel	0.511	0.010	mg/L	0.500	ND	102	75-125			
Potassium	4.91	2.0	mg/L	4.00	0.788	103	75-125			
Selenium	0.528	0.050	mg/L	0.500	ND	106	75-125			
Silver	0.533	0.010	mg/L	0.500	ND	107	75-125			
Sodium	61.2	2.0	mg/L	4.00	56.1	129	* 75-125			MS-19
Thallium	0.507	0.050	mg/L	0.500	ND	101	75-125			
Vanadium	0.522	0.010	mg/L	0.500	ND	104	75-125			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B370707 - SW-846 3005A Dissolved
Matrix Spike (B370707-MS2)
Source: 24D0735-04

Prepared: 04/05/24 Analyzed: 04/18/24

Zinc	1.09	0.010	mg/L	1.00	0.0869	100	75-125			

Matrix Spike Dup (B370707-MSD1)
Source: 24D0735-04

Prepared: 04/05/24 Analyzed: 04/16/24

Aluminum	0.534	0.050	mg/L	0.500	0.0354	99.6	75-125	3.38	20	
Antimony	0.512	0.050	mg/L	0.500	ND	102	75-125	1.09	20	
Arsenic	0.491	0.010	mg/L	0.500	ND	98.2	75-125	1.69	20	
Barium	0.522	0.050	mg/L	0.500	0.0205	100	75-125	2.95	20	
Beryllium	0.511	0.0040	mg/L	0.500	ND	102	75-125	3.59	20	
Cadmium	0.505	0.0040	mg/L	0.500	ND	101	75-125	2.44	20	
Calcium	34.9	0.50	mg/L	4.00	31.6	82.2	75-125	3.18	20	
Chromium	0.504	0.010	mg/L	0.500	ND	101	75-125	2.95	20	
Cobalt	0.498	0.010	mg/L	0.500	ND	99.6	75-125	2.52	20	
Copper	1.01	0.010	mg/L	1.00	ND	101	75-125	2.73	20	
Iron	5.74	0.050	mg/L	4.00	1.81	98.4	75-125	2.88	20	
Lead	0.495	0.010	mg/L	0.500	ND	98.9	75-125	1.87	20	
Magnesium	9.86	0.050	mg/L	4.00	6.02	96.0	75-125	2.43	20	
Manganese	0.703	0.010	mg/L	0.500	0.213	98.1	75-125	3.06	20	
Nickel	0.499	0.010	mg/L	0.500	ND	99.8	75-125	2.44	20	
Potassium	4.82	2.0	mg/L	4.00	0.788	101	75-125	1.83	20	
Selenium	0.522	0.050	mg/L	0.500	ND	104	75-125	1.10	20	
Silver	0.520	0.010	mg/L	0.500	ND	104	75-125	2.53	20	
Sodium	59.4	2.0	mg/L	4.00	56.1	83.6	75-125	3.01	20	
Thallium	0.499	0.050	mg/L	0.500	ND	99.7	75-125	1.71	20	
Vanadium	0.509	0.010	mg/L	0.500	ND	102	75-125	2.62	20	

Matrix Spike Dup (B370707-MSD2)
Source: 24D0735-04

Prepared: 04/05/24 Analyzed: 04/18/24

Zinc	1.07	0.010	mg/L	1.00	0.0869	98.3	75-125	1.85	20	

Post Spike (B370707-PS1)
Source: 24D0735-04

Prepared: 04/05/24 Analyzed: 04/16/24

Aluminum	2.03		mg/L	2.00	0.0347	99.7	75-125			
Antimony	1.98		mg/L	2.00	0.00445	98.5	75-125			
Arsenic	1.93		mg/L	2.00	-0.00553	96.3	75-125			
Barium	1.98		mg/L	2.00	0.0201	98.1	75-125			
Beryllium	2.04		mg/L	2.00	-0.0000761	102	75-125			
Cadmium	1.97		mg/L	2.00	0.000239	98.6	75-125			
Calcium	46.8		mg/L	16.0	31.0	98.7	75-125			
Chromium	1.96		mg/L	2.00	0.00428	97.6	75-125			
Cobalt	1.92		mg/L	2.00	0.000547	96.0	75-125			
Copper	3.97		mg/L	4.00	0.00201	99.1	75-125			
Iron	17.5		mg/L	16.0	1.77	98.1	75-125			
Lead	1.90		mg/L	2.00	0.00303	94.7	75-125			
Magnesium	21.8		mg/L	16.0	5.90	99.3	75-125			
Manganese	2.17		mg/L	2.00	0.208	98.1	75-125			
Nickel	1.92		mg/L	2.00	0.00161	95.9	75-125			
Potassium	17.3		mg/L	16.0	0.772	103	75-125			
Selenium	2.01		mg/L	2.00	-0.000723	101	75-125			
Silver	1.95		mg/L	2.00	0.00134	97.3	75-125			
Sodium	74.2		mg/L	16.0	55.0	120	75-125			
Thallium	2.03		mg/L	2.00	-0.00728	101	75-125			
Vanadium	1.99		mg/L	2.00	0.00260	99.4	75-125			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B370707 - SW-846 3005A Dissolved

Dilution Check (B370707-SRL1)		Source: 24D0735-04		Prepared: 04/05/24 Analyzed: 04/16/24						
Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	ND	0.25	mg/L		ND				20	
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	31.1	2.5	mg/L		31.6			1.76	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	1.80	0.25	mg/L		1.81			0.436	20	
Lead	ND	0.050	mg/L		ND				20	
Magnesium	5.79	0.25	mg/L		6.02			3.91	20	
Manganese	0.210	0.050	mg/L		0.213			1.38	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	ND	10	mg/L		ND				20	
Selenium	ND	0.25	mg/L		ND				20	
Silver	ND	0.050	mg/L		ND				20	
Sodium	53.6	10	mg/L		56.1			4.61	20	
Thallium	ND	0.25	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	

Batch B371643 - SW-846 7470A Dissolved

Blank (B371643-BLK1)		Prepared: 04/16/24 Analyzed: 04/17/24								
Mercury	ND	0.00020	mg/L							
LCS (B371643-BS1)		Prepared: 04/16/24 Analyzed: 04/17/24								
Mercury	0.00407	0.00020	mg/L	0.00402		101	80-120			
LCS Dup (B371643-BSD1)		Prepared: 04/16/24 Analyzed: 04/17/24								
Mercury	0.00408	0.00020	mg/L	0.00402		101	80-120	0.238	20	
Matrix Spike (B371643-MS1)		Source: 24D0735-04		Prepared: 04/16/24 Analyzed: 04/17/24						
Mercury	0.00396	0.00020	mg/L	0.00402	ND	98.5	75-125			
Matrix Spike Dup (B371643-MSD1)		Source: 24D0735-04		Prepared: 04/16/24 Analyzed: 04/17/24						
Mercury	0.00400	0.00020	mg/L	0.00402	ND	99.5	75-125	1.01	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010D in Soil</i>	
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
<i>SW-846 6010D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Aluminum	CT,NY,NH,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,NC,VA
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	MA,NY,CT,NH,NC,ME,VA
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,NC,ME,VA
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,NC,VA
Calcium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,NC,ME,VA
Chromium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,NC,ME,VA
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,NC,ME,VA
Magnesium	CT,NH,NY,NC,ME,VA
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,NC,ME,VA
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,RI,NC,VA
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,NC,VA
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010D in Water</i>	
Zinc	CT,NH,NY,ME,NC,VA
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
Mercury	CT,NH,NY,NC,ME,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number 55

MTJL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: EA Engineering		Billing Information: Melanie Dina PO Box 144 25 Western Ave, Marlboro, NY 12542	
Address: 333 W. Washington St, STE 300, Syracuse, NY		Email To: NEAccountsPayable@eaest.com	
Report To: hwilliams@eaest.com		Site Collection Info/Address: Dzus Fastener / 425 Union Blvd	
Copy To: lbackmanlowe@eaest.com			
Customer Project Name/Number: Dzus Fastener / 16025-15-00-CP		State: NY County/City: West Islip Time Zone Collected: [] PT [] MT [] CT [] ET	
Phone: (716) 364-7282	Site/Facility ID #: Dzus Fastener (152033)	Compliance Monitoring? ☒ Yes ☐ No	
Email:	Purchase Order #: Quote #:	DW PWS ID #: DW Location Code:	
Collected By (Print):	Turnaround Date Required: Standard 10-Day TAT	Immediately Packed on Ice: ☒ Yes ☐ No	
Collected By (Signature):	Run: ☐ Same Day ☐ Next Day ☐ 2 Day ☐ 3 Day ☐ 4 Day ☐ 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): ☒ Yes ☐ No	
Sample Disposal: ☒ Dispose as appropriate ☐ Return Archives: ☐ Hold:	Analysis: Diss. TAL Metals + Hg		

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns	6010D - Total Metals (Cd + Cr)	6010D - Diss. TAL Metals + Hg	6010D - Total TAL Metals + Hg
			Date	Time	Date	Time					
152033-SM-SO-11-04012024	SL	C	4/1/24	17:55				1	X		
152033-SM-SO-F02-04012024	SL	C	4/1/24	—				1	X		
152033-SM-MW-228-04022024	GW	G	4/2/24	09:10				2		X	X
152033-SM-MW-22A-04022024	GW	G		09:24				6*		X	X
152033-SM-MW-13B-04022024	GW	G		11:46				2		X	X
152033-SM-MW-13A-04022024	GW	G		12:38				2		X	X
152033-SM-MW-9B-04022024	GW	G		14:25				2		X	X
152033-SM-MW-9-04022024	GW	G		14:42				2		X	X
152033-SM-MW-13A-04022024	GW	G		15:47				2		X	X
152033-SM-MW-238-04022024	GW	G		16:30				2		X	X

Customer Remarks / Special Conditions / Possible Hazard:
* Additional volume indicated w/ sample
MW-22A for MS/MSD

This WO is split off from WO# 24D0729.
COC Information extracted for reporting purposes.
4/8/24

Dispatched by/Company: (Signature) [Signature] / EA	Date/Time 4/4/24 17:00	Received by/Company: (Signature) [Signature]	Date/Time 4/4/24 18:05
Dispatched by/Company: (Signature) [Signature]	Date/Time 4/4/24 18:05	Received by/Company: (Signature) [Signature]	Date/Time 4/5/24 8:00
Dispatched by/Company: (Signature) [Signature]	Date/Time 4/5/24 9:55	Received by/Company: (Signature) [Signature]	Date/Time 4-5-24 9:55

Container Preservative Type **	Lab Project Manager:
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other	

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact ☒ Y ☐ N ☐ NA
	Custody Signatures Present ☒ Y ☐ N ☐ NA
	Collector Signature Present ☒ Y ☐ N ☐ NA
	Bottles Intact ☒ Y ☐ N ☐ NA
	Correct Bottles ☒ Y ☐ N ☐ NA
	Sufficient Volume ☒ Y ☐ N ☐ NA
	Samples Received on Ice ☒ Y ☐ N ☐ NA
	VOA - Headspace Acceptable ☒ Y ☐ N ☐ NA
	USDA Regulated Soils ☒ Y ☐ N ☐ NA
	Samples in Holding Time ☒ Y ☐ N ☐ NA
	Residual Chlorine Present ☒ Y ☐ N ☐ NA
	Cl Strips: ☒ Y ☐ N ☐ NA
	Sample pH Acceptable ☒ Y ☐ N ☐ NA
	pH Strips: ☒ Y ☐ N ☐ NA
	Sulfide Present ☒ Y ☐ N ☐ NA
	Lead Acetate Strips: ☒ Y ☐ N ☐ NA

LAB USE ONLY:
Lab sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns	6010D - Total Metals (Cd + Cr)	6010D - Diss. TAL Metals + Hg	6010D - Total TAL Metals + Hg
			Date	Time	Date	Time					
152033-SM-SO-11-04012024	SL	C	4/1/24	17:55				1	X		
152033-SM-SO-F02-04012024	SL	C	4/1/24	—				1	X		
152033-SM-MW-228-04022024	GW	G	4/2/24	09:10				2		X	X
152033-SM-MW-22A-04022024	GW	G		09:24				6*		X	X
152033-SM-MW-13B-04022024	GW	G		11:46				2		X	X
152033-SM-MW-13A-04022024	GW	G		12:38				2		X	X
152033-SM-MW-9B-04022024	GW	G		14:25				2		X	X
152033-SM-MW-9-04022024	GW	G		14:42				2		X	X
152033-SM-MW-13A-04022024	GW	G		15:47				2		X	X
152033-SM-MW-238-04022024	GW	G		16:30				2		X	X

Type of Fire Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
Packing Material Used:	Lab Tracking #: 2661967
Radon sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:	MTJL LAB USE ONLY
Temp Blank Received: Y N NA	Table #:
Therm ID#:	Accession:
Cooler 1 Temp Upon Receipt: °C	Template:
Cooler 1 Therm Corr. Factor: °C	Prelogin:
Cooler 1 Corrected Temp: °C	RM:
Comments:	PB:
Trip Blank Received: Y N NA	
HCL MeOH TSP Other:	
Non Conformance(s): YES / NO	Page: 3 of: 4

Page 55 of 57

	DC# Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client EA Engineering
 Project DLUS Fusion
 MCP/RCP Required NA
 Deliverable Package Requirement MA
 Location 425 Union Blvd, West Virginia
 PW5ID# (When Applicable) MA
 Arrival Method:
 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
 Received By / Date / Time CMH 4/5/24 955
 Back-Sheet By / Date / Time LA 4/5/24 1147
 Temperature Method Jim 6
 Temp ☒ < 6°C Actual Temperature 39.1.7
 Rush Samples: Yes / ☒ No Notify _____
 Short Hold: Yes / ☒ No Notify _____

Notes regarding Samples/COC outside of SOP:

All samples Field Picked
and Received with preserved
containers.

Login Sample Receipt Checklist – (Rejection Criteria Listing
 – Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client – True or False

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☒	☐
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☐
Project ☒	IDs ☒	Collection Date/Time ☒
All Samples Proper pH: <u>N/A</u> ☐ ☐		

Additional Container Notes

Note: West Virginia requires all samples to have their
 temperature taken. Note any outliers.

	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

	Sample		
	Soils Jars	Ambers	Plastics
1	16oz Amb/Clear	1 Liter	1 Liter
2	8oz Amb/Clear	250mL	500mL
3	4oz Amb/Clear	100mL	250mL
4	2oz Amb/Clear	Unpreserved	Unpreserved
5	Unpreserved	HCL	Sulfuric
6	Sulfuric	Sulfuric	Trizma
7	Sulfuric	Phosphoric	Sulfuric
8	HCL	Unpreserved	Nitric
9	Unpreserved	Unpreserved	NaOH
10	Unpreserved	Unpreserved	Ammonium Acetate
11	Unpreserved	Unpreserved	NaOH/Zinc
12	Unpreserved	Unpreserved	Unpreserved
13	Unpreserved	Unpreserved	HCL
14	Unpreserved	Unpreserved	MeOH
15	Unpreserved	Unpreserved	D.I. Water
16	Unpreserved	Unpreserved	BiSulfate
17	Unpreserved	Unpreserved	Col/Bact
18	Unpreserved	Unpreserved	
19	Unpreserved	Unpreserved	
20	Unpreserved	Unpreserved	

ICP

SAMPLE DATA

61

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0735-01
Sampled:	04/01/24 17:55		
% Solids:	77.76		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.19	0.41	1		B370650	04/11/24 16:30	SW-846 6010D
7440-47-3	Chromium	2.6	0.52	0.82	1		B370650	04/11/24 16:30	SW-846 6010D

62

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Laboratory ID:	24D0735-02
Sampled:	04/01/24 00:00		
% Solids:	66.40		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium	14	0.23	0.49	1		B370650	04/11/24 16:40	SW-846 6010D
7440-47-3	Chromium	8.0	0.62	0.98	1		B370650	04/11/24 16:40	SW-846 6010D

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-22B-04022024

63

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-03
Sampled:	04/02/24 09:10		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum		0.020	0.050	1		B371416	04/17/24 16:09	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:09	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:09	SW-846 6010D
7440-39-3	Barium	0.034	0.0057	0.050	1	J	B371416	04/17/24 16:09	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:09	SW-846 6010D
7440-43-9	Cadmium		0.0013	0.0040	1		B371416	04/17/24 16:09	SW-846 6010D
7440-70-2	Calcium	24	0.091	0.50	1		B371416	04/17/24 16:09	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:09	SW-846 6010D
7440-48-4	Cobalt	0.0069	0.0017	0.010	1	J	B371416	04/17/24 16:09	SW-846 6010D
7440-50-8	Copper	0.010	0.0095	0.010	1		B371416	04/18/24 16:00	SW-846 6010D
7439-89-6	Iron	3.7	0.023	0.050	1		B371416	04/17/24 16:09	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:09	SW-846 6010D
7439-95-4	Magnesium	4.0	0.016	0.050	1		B371416	04/17/24 16:09	SW-846 6010D
7439-96-5	Manganese	1.3	0.0028	0.010	1		B371416	04/17/24 16:09	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:09	SW-846 6010D
7440-09-7	Potassium	2.5	0.33	2.0	1		B371416	04/17/24 16:09	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:09	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:09	SW-846 6010D
7440-23-5	Sodium	16	0.38	2.0	1		B371416	04/18/24 16:00	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:09	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:09	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 16:09	SW-846 6010D

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-22A-04022024

64

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-04
Sampled:	04/02/24 09:24		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.049	0.020	0.050	1	J	B371416	04/17/24 15:23	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 15:23	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7440-39-3	Barium	0.020	0.0057	0.050	1	J	B371416	04/17/24 15:23	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 15:23	SW-846 6010D
7440-43-9	Cadmium		0.0013	0.0040	1		B371416	04/17/24 15:23	SW-846 6010D
7440-70-2	Calcium	26	0.091	0.50	1		B371416	04/17/24 15:23	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7440-50-8	Copper	0.011	0.0095	0.010	1		B371416	04/18/24 15:52	SW-846 6010D
7439-89-6	Iron	2.1	0.023	0.050	1		B371416	04/17/24 15:23	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7439-95-4	Magnesium	5.0	0.016	0.050	1		B371416	04/17/24 15:23	SW-846 6010D
7439-96-5	Manganese	0.19	0.0028	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7440-09-7	Potassium	0.86	0.33	2.0	1	J	B371416	04/17/24 15:23	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 15:23	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7440-23-5	Sodium	65	0.38	2.0	1	MS-19	B371416	04/18/24 15:52	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 15:23	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 15:23	SW-846 6010D
7440-66-6	Zinc	0.079	0.0040	0.010	1		B371416	04/17/24 15:23	SW-846 6010D

65

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-05
Sampled:	04/02/24 11:46		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.042	0.020	0.050	1	J	B371416	04/17/24 16:15	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:15	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7440-39-3	Barium	0.032	0.0057	0.050	1	J	B371416	04/17/24 16:15	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:15	SW-846 6010D
7440-43-9	Cadmium		0.0013	0.0040	1		B371416	04/17/24 16:15	SW-846 6010D
7440-70-2	Calcium	8.8	0.091	0.50	1		B371416	04/17/24 16:15	SW-846 6010D
7440-47-3	Chromium	0.018	0.0093	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7440-50-8	Copper	0.011	0.0095	0.010	1		B371416	04/18/24 16:08	SW-846 6010D
7439-89-6	Iron	0.11	0.023	0.050	1		B371416	04/17/24 16:15	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7439-95-4	Magnesium	1.5	0.016	0.050	1		B371416	04/17/24 16:15	SW-846 6010D
7439-96-5	Manganese	0.021	0.0028	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7440-09-7	Potassium	1.5	0.33	2.0	1	J	B371416	04/17/24 16:15	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:15	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7440-23-5	Sodium	14	0.38	2.0	1		B371416	04/18/24 16:08	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:15	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:15	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 16:15	SW-846 6010D

66

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-06
Sampled:	04/02/24 12:38		
% Solids:	0.00		

67

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-07
Sampled:	04/02/24 14:25		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.28	0.020	0.050	1		B371416	04/17/24 16:26	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:26	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7440-39-3	Barium	0.014	0.0057	0.050	1	J	B371416	04/17/24 16:26	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:26	SW-846 6010D
7440-43-9	Cadmium		0.0013	0.0040	1		B371416	04/17/24 16:26	SW-846 6010D
7440-70-2	Calcium	7.7	0.091	0.50	1		B371416	04/17/24 16:26	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7440-50-8	Copper		0.0095	0.010	1		B371416	04/18/24 16:23	SW-846 6010D
7439-89-6	Iron	0.36	0.023	0.050	1		B371416	04/17/24 16:26	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7439-95-4	Magnesium	1.3	0.016	0.050	1		B371416	04/17/24 16:26	SW-846 6010D
7439-96-5	Manganese	0.017	0.0028	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7440-09-7	Potassium	1.5	0.33	2.0	1	J	B371416	04/17/24 16:26	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:26	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7440-23-5	Sodium	13	0.38	2.0	1		B371416	04/18/24 16:23	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:26	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:26	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 16:26	SW-846 6010D

68

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-08
Sampled:	04/02/24 14:42		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.33	0.020	0.050	1		B371416	04/17/24 16:31	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:31	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7440-39-3	Barium	0.023	0.0057	0.050	1	J	B371416	04/17/24 16:31	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:31	SW-846 6010D
7440-43-9	Cadmium	0.049	0.0013	0.0040	1		B371416	04/17/24 16:31	SW-846 6010D
7440-70-2	Calcium	53	0.091	0.50	1		B371416	04/17/24 16:31	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7440-50-8	Copper	0.011	0.0095	0.010	1		B371416	04/18/24 16:43	SW-846 6010D
7439-89-6	Iron	0.30	0.023	0.050	1		B371416	04/17/24 16:31	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7439-95-4	Magnesium	5.7	0.016	0.050	1		B371416	04/17/24 16:31	SW-846 6010D
7439-96-5	Manganese	0.21	0.0028	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7440-09-7	Potassium	5.7	0.33	2.0	1		B371416	04/17/24 16:31	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:31	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7440-23-5	Sodium	24	0.38	2.0	1		B371416	04/18/24 16:43	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:31	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:31	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 16:31	SW-846 6010D

69

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-09
Sampled:	04/02/24 15:47		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.20	0.020	0.050	1		B371416	04/17/24 16:37	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:37	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7440-39-3	Barium	0.016	0.0057	0.050	1	J	B371416	04/17/24 16:37	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:37	SW-846 6010D
7440-43-9	Cadmium	0.0048	0.0013	0.0040	1		B371416	04/17/24 16:37	SW-846 6010D
7440-70-2	Calcium	28	0.091	0.50	1		B371416	04/17/24 16:37	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7440-50-8	Copper	0.033	0.0095	0.010	1		B371416	04/18/24 16:51	SW-846 6010D
7439-89-6	Iron	1.4	0.023	0.050	1		B371416	04/17/24 16:37	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7439-95-4	Magnesium	5.1	0.016	0.050	1		B371416	04/17/24 16:37	SW-846 6010D
7439-96-5	Manganese	0.13	0.0028	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7440-09-7	Potassium	4.0	0.33	2.0	1		B371416	04/17/24 16:37	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:37	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7440-23-5	Sodium	38	0.38	2.0	1		B371416	04/18/24 16:51	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:37	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:37	SW-846 6010D
7440-66-6	Zinc	0.0090	0.0040	0.010	1	J	B371416	04/17/24 16:37	SW-846 6010D

70

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-10
Sampled:	04/02/24 16:30		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	1.6	0.020	0.050	1		B371416	04/17/24 16:42	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:42	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:42	SW-846 6010D
7440-39-3	Barium	0.031	0.0057	0.050	1	J	B371416	04/17/24 16:42	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:42	SW-846 6010D
7440-43-9	Cadmium	0.0031	0.0013	0.0040	1	J	B371416	04/17/24 16:42	SW-846 6010D
7440-70-2	Calcium	7.8	0.091	0.50	1		B371416	04/17/24 16:42	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:42	SW-846 6010D
7440-48-4	Cobalt	0.0021	0.0017	0.010	1	J	B371416	04/17/24 16:42	SW-846 6010D
7440-50-8	Copper	0.039	0.0095	0.010	1		B371416	04/18/24 16:59	SW-846 6010D
7439-89-6	Iron	3.5	0.023	0.050	1		B371416	04/17/24 16:42	SW-846 6010D
7439-92-1	Lead	0.0076	0.0065	0.010	1	J	B371416	04/17/24 16:42	SW-846 6010D
7439-95-4	Magnesium	1.8	0.016	0.050	1		B371416	04/17/24 16:42	SW-846 6010D
7439-96-5	Manganese	0.082	0.0028	0.010	1		B371416	04/17/24 16:42	SW-846 6010D
7440-02-0	Nickel	0.0065	0.0024	0.010	1	J	B371416	04/17/24 16:42	SW-846 6010D
7440-09-7	Potassium	0.85	0.33	2.0	1	J	B371416	04/17/24 16:42	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:42	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:42	SW-846 6010D
7440-23-5	Sodium	10	0.38	2.0	1		B371416	04/18/24 16:59	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:42	SW-846 6010D
7440-62-2	Vanadium	0.012	0.0071	0.010	1		B371416	04/17/24 16:42	SW-846 6010D
7440-66-6	Zinc	0.18	0.0040	0.010	1		B371416	04/17/24 16:42	SW-846 6010D

71

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-11
Sampled:	04/03/24 08:19		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.075	0.020	0.050	1		B371416	04/17/24 16:48	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:48	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7440-39-3	Barium	0.013	0.0057	0.050	1	J	B371416	04/17/24 16:48	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:48	SW-846 6010D
7440-43-9	Cadmium		0.0013	0.0040	1		B371416	04/17/24 16:48	SW-846 6010D
7440-70-2	Calcium	19	0.091	0.50	1		B371416	04/17/24 16:48	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7440-50-8	Copper	0.0095	0.0095	0.010	1	J	B371416	04/18/24 17:07	SW-846 6010D
7439-89-6	Iron	0.076	0.023	0.050	1		B371416	04/17/24 16:48	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7439-95-4	Magnesium	5.8	0.016	0.050	1		B371416	04/17/24 16:48	SW-846 6010D
7439-96-5	Manganese		0.0028	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7440-09-7	Potassium	1.5	0.33	2.0	1	J	B371416	04/17/24 16:48	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:48	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7440-23-5	Sodium	13	0.38	2.0	1		B371416	04/18/24 17:07	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:48	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:48	SW-846 6010D
7440-66-6	Zinc	0.0048	0.0040	0.010	1	J	B371416	04/17/24 16:48	SW-846 6010D

72

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-12
Sampled:	04/03/24 09:36		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum		0.020	0.050	1		B371416	04/17/24 16:54	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:54	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7440-39-3	Barium	0.040	0.0057	0.050	1	J	B371416	04/17/24 16:54	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:54	SW-846 6010D
7440-43-9	Cadmium		0.0013	0.0040	1		B371416	04/17/24 16:54	SW-846 6010D
7440-70-2	Calcium	12	0.091	0.50	1		B371416	04/17/24 16:54	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7440-50-8	Copper		0.0095	0.010	1		B371416	04/18/24 17:14	SW-846 6010D
7439-89-6	Iron	2.3	0.023	0.050	1		B371416	04/17/24 16:54	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7439-95-4	Magnesium	5.2	0.016	0.050	1		B371416	04/17/24 16:54	SW-846 6010D
7439-96-5	Manganese	0.13	0.0028	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7440-09-7	Potassium	1.4	0.33	2.0	1	J	B371416	04/17/24 16:54	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:54	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7440-23-5	Sodium	37	0.38	2.0	1		B371416	04/18/24 17:14	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:54	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:54	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 16:54	SW-846 6010D

73

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-13
Sampled:	04/03/24 09:40		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.072	0.020	0.050	1		B371416	04/17/24 16:59	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 16:59	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7440-39-3	Barium	0.012	0.0057	0.050	1	J	B371416	04/17/24 16:59	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 16:59	SW-846 6010D
7440-43-9	Cadmium	0.027	0.0013	0.0040	1		B371416	04/17/24 16:59	SW-846 6010D
7440-70-2	Calcium	15	0.091	0.50	1		B371416	04/17/24 16:59	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7440-50-8	Copper	0.011	0.0095	0.010	1		B371416	04/18/24 17:22	SW-846 6010D
7439-89-6	Iron	0.14	0.023	0.050	1		B371416	04/17/24 16:59	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7439-95-4	Magnesium	1.6	0.016	0.050	1		B371416	04/17/24 16:59	SW-846 6010D
7439-96-5	Manganese	0.47	0.0028	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7440-09-7	Potassium	1.8	0.33	2.0	1	J	B371416	04/17/24 16:59	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 16:59	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7440-23-5	Sodium	11	0.38	2.0	1		B371416	04/18/24 17:22	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 16:59	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 16:59	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 16:59	SW-846 6010D

74

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-14
Sampled:	04/03/24 10:34		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.048	0.020	0.050	1	J	B371416	04/17/24 17:16	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 17:16	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7440-39-3	Barium	0.0076	0.0057	0.050	1	J	B371416	04/17/24 17:16	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 17:16	SW-846 6010D
7440-43-9	Cadmium		0.0013	0.0040	1		B371416	04/17/24 17:16	SW-846 6010D
7440-70-2	Calcium	16	0.091	0.50	1		B371416	04/17/24 17:16	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7440-50-8	Copper		0.0095	0.010	1		B371416	04/18/24 17:30	SW-846 6010D
7439-89-6	Iron	0.062	0.023	0.050	1		B371416	04/17/24 17:16	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7439-95-4	Magnesium	1.7	0.016	0.050	1		B371416	04/17/24 17:16	SW-846 6010D
7439-96-5	Manganese	0.18	0.0028	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7440-09-7	Potassium	0.71	0.33	2.0	1	J	B371416	04/17/24 17:16	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 17:16	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7440-23-5	Sodium	5.6	0.38	2.0	1		B371416	04/18/24 17:30	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 17:16	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 17:16	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 17:16	SW-846 6010D

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-2-04032024

75

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-15
Sampled:	04/03/24 11:35		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.044	0.020	0.050	1	J	B371416	04/17/24 17:42	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 17:42	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 17:42	SW-846 6010D
7440-39-3	Barium	0.044	0.0057	0.050	1	J	B371416	04/17/24 17:42	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 17:42	SW-846 6010D
7440-43-9	Cadmium	0.0040	0.0013	0.0040	1		B371416	04/17/24 17:42	SW-846 6010D
7440-70-2	Calcium	32	0.091	0.50	1		B371416	04/17/24 17:42	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 17:42	SW-846 6010D
7440-48-4	Cobalt		0.0017	0.010	1		B371416	04/17/24 17:42	SW-846 6010D
7440-50-8	Copper		0.0095	0.010	1		B371416	04/18/24 17:38	SW-846 6010D
7439-89-6	Iron	0.054	0.023	0.050	1		B371416	04/17/24 17:42	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 17:42	SW-846 6010D
7439-95-4	Magnesium	4.0	0.016	0.050	1		B371416	04/17/24 17:42	SW-846 6010D
7439-96-5	Manganese	0.0034	0.0028	0.010	1	J	B371416	04/17/24 17:42	SW-846 6010D
7440-02-0	Nickel		0.0024	0.010	1		B371416	04/17/24 17:42	SW-846 6010D
7440-09-7	Potassium	3.3	0.47	2.0	1		B371416	04/18/24 17:38	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 17:42	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 17:42	SW-846 6010D
7440-23-5	Sodium	55	0.38	2.0	1		B371416	04/18/24 17:38	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 17:42	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 17:42	SW-846 6010D
7440-66-6	Zinc		0.0040	0.010	1		B371416	04/17/24 17:42	SW-846 6010D

76

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-16
Sampled:	04/03/24 12:45		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.044	0.020	0.050	1	J	B371416	04/17/24 17:47	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 17:47	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 17:47	SW-846 6010D
7440-39-3	Barium	0.025	0.0057	0.050	1	J	B371416	04/17/24 17:47	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 17:47	SW-846 6010D
7440-43-9	Cadmium	0.0055	0.0013	0.0040	1		B371416	04/17/24 17:47	SW-846 6010D
7440-70-2	Calcium	19	0.091	0.50	1		B371416	04/17/24 17:47	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 17:47	SW-846 6010D
7440-48-4	Cobalt	0.0047	0.0017	0.010	1	J	B371416	04/17/24 17:47	SW-846 6010D
7440-50-8	Copper		0.0095	0.010	1		B371416	04/18/24 17:43	SW-846 6010D
7439-89-6	Iron	0.79	0.023	0.050	1		B371416	04/17/24 17:47	SW-846 6010D
7439-92-1	Lead		0.0065	0.010	1		B371416	04/17/24 17:47	SW-846 6010D
7439-95-4	Magnesium	2.7	0.016	0.050	1		B371416	04/17/24 17:47	SW-846 6010D
7439-96-5	Manganese	0.54	0.0028	0.010	1		B371416	04/17/24 17:47	SW-846 6010D
7440-02-0	Nickel	0.0025	0.0024	0.010	1	J	B371416	04/17/24 17:47	SW-846 6010D
7440-09-7	Potassium	2.2	0.47	2.0	1		B371416	04/18/24 17:43	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 17:47	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 17:47	SW-846 6010D
7440-23-5	Sodium	32	0.38	2.0	1		B371416	04/18/24 17:43	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 17:47	SW-846 6010D
7440-62-2	Vanadium		0.0071	0.010	1		B371416	04/17/24 17:47	SW-846 6010D
7440-66-6	Zinc	0.060	0.0040	0.010	1		B371416	04/17/24 17:47	SW-846 6010D

77

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-17
Sampled:	04/02/24 00:00		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	0.90	0.020	0.050	1		B371416	04/17/24 17:53	SW-846 6010D
7440-36-0	Antimony		0.011	0.050	1		B371416	04/17/24 17:53	SW-846 6010D
7440-38-2	Arsenic		0.0073	0.010	1		B371416	04/17/24 17:53	SW-846 6010D
7440-39-3	Barium	0.049	0.0057	0.050	1	J	B371416	04/17/24 17:53	SW-846 6010D
7440-41-7	Beryllium		0.0012	0.0040	1		B371416	04/17/24 17:53	SW-846 6010D
7440-43-9	Cadmium	0.52	0.0013	0.0040	1		B371416	04/17/24 17:53	SW-846 6010D
7440-70-2	Calcium	32	0.091	0.50	1		B371416	04/17/24 17:53	SW-846 6010D
7440-47-3	Chromium		0.0093	0.010	1		B371416	04/17/24 17:53	SW-846 6010D
7440-48-4	Cobalt	0.0059	0.0017	0.010	1	J	B371416	04/17/24 17:53	SW-846 6010D
7440-50-8	Copper	0.042	0.0095	0.010	1		B371416	04/18/24 17:51	SW-846 6010D
7439-89-6	Iron	5.1	0.023	0.050	1		B371416	04/17/24 17:53	SW-846 6010D
7439-92-1	Lead	0.013	0.0065	0.010	1		B371416	04/17/24 17:53	SW-846 6010D
7439-95-4	Magnesium	5.5	0.016	0.050	1		B371416	04/17/24 17:53	SW-846 6010D
7439-96-5	Manganese	0.28	0.0028	0.010	1		B371416	04/17/24 17:53	SW-846 6010D
7440-02-0	Nickel	0.0070	0.0024	0.010	1	J	B371416	04/17/24 17:53	SW-846 6010D
7440-09-7	Potassium	3.7	0.47	2.0	1		B371416	04/18/24 17:51	SW-846 6010D
7782-49-2	Selenium		0.018	0.050	1		B371416	04/17/24 17:53	SW-846 6010D
7440-22-4	Silver		0.0027	0.010	1		B371416	04/17/24 17:53	SW-846 6010D
7440-23-5	Sodium	61	0.38	2.0	1		B371416	04/18/24 17:51	SW-846 6010D
7440-28-0	Thallium		0.019	0.050	1		B371416	04/17/24 17:53	SW-846 6010D
7440-62-2	Vanadium	0.0081	0.0071	0.010	1	J	B371416	04/17/24 17:53	SW-846 6010D
7440-66-6	Zinc	0.10	0.0040	0.010	1		B371416	04/17/24 17:53	SW-846 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP4	Calibration:	2400423
		Sequence:	S103055

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103055-ICV1	Cadmium	2.00	2.02	101	mg/L	+/- 10.00%
	Chromium	2.00	2.09	105	mg/L	+/- 10.00%
S103055-CCV1	Cadmium	5.00	5.01	100	mg/L	+/- 10.00%
	Chromium	5.00	5.16	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK**SW-846 6010D**

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP4	Calibration:	2400423
		Sequence:	S103057

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103057-CCV1	Cadmium	5.00	5.07	101	mg/L	+/- 10.00%
	Chromium	5.00	5.17	103	mg/L	+/- 10.00%
S103057-CCV2	Cadmium	5.00	5.10	102	mg/L	+/- 10.00%
	Chromium	5.00	5.19	104	mg/L	+/- 10.00%
S103057-CCV3	Cadmium	5.00	5.02	100	mg/L	+/- 10.00%
	Chromium	5.00	5.10	102	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP2

Calibration: 2400442

Sequence: S103290

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103290-ICV1	Aluminum	2.00	2.10	105	mg/L	+/- 10.00%
	Antimony	2.00	1.99	99.6	mg/L	+/- 10.00%
	Arsenic	2.00	2.01	100	mg/L	+/- 10.00%
	Barium	2.00	2.02	101	mg/L	+/- 10.00%
	Beryllium	2.00	2.00	99.8	mg/L	+/- 10.00%
	Cadmium	2.00	1.99	99.5	mg/L	+/- 10.00%
	Calcium	2.00	2.05	103	mg/L	+/- 10.00%
	Chromium	2.00	2.03	101	mg/L	+/- 10.00%
	Cobalt	2.00	2.01	101	mg/L	+/- 10.00%
	Iron	2.00	2.13	106	mg/L	+/- 10.00%
	Lead	2.00	2.04	102	mg/L	+/- 10.00%
	Magnesium	2.00	2.11	106	mg/L	+/- 10.00%
	Manganese	2.00	1.99	99.6	mg/L	+/- 10.00%
	Nickel	2.00	2.03	101	mg/L	+/- 10.00%
	Potassium	2.00	1.96	98.1	mg/L	+/- 10.00%
	Selenium	2.00	2.01	100	mg/L	+/- 10.00%
	Silver	1.00	0.921	92.1	mg/L	+/- 10.00%
	Thallium	1.00	0.988	98.8	mg/L	+/- 10.00%
	Vanadium	2.00	1.97	98.5	mg/L	+/- 10.00%
	Zinc	2.00	2.03	102	mg/L	+/- 10.00%
S103290-CCV1	Aluminum	10.0	10.0	100	mg/L	+/- 10.00%
	Antimony	5.00	4.92	98.3	mg/L	+/- 10.00%
	Arsenic	5.00	4.95	99.0	mg/L	+/- 10.00%
	Barium	5.00	4.99	99.7	mg/L	+/- 10.00%
	Beryllium	5.00	4.70	94.0	mg/L	+/- 10.00%
	Cadmium	5.00	4.92	98.4	mg/L	+/- 10.00%
	Calcium	10.0	9.83	98.3	mg/L	+/- 10.00%
	Chromium	5.00	4.98	99.6	mg/L	+/- 10.00%
	Cobalt	5.00	4.96	99.3	mg/L	+/- 10.00%
	Iron	5.00	5.10	102	mg/L	+/- 10.00%
	Lead	5.00	5.01	100	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400442
		Sequence:	S103290

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103290-CCV1	Magnesium	10.0	10.0	100	mg/L	+/- 10.00%
	Manganese	5.00	5.03	101	mg/L	+/- 10.00%
	Nickel	5.00	4.99	99.8	mg/L	+/- 10.00%
	Potassium	10.0	9.23	92.3	mg/L	+/- 10.00%
	Selenium	5.00	4.98	99.6	mg/L	+/- 10.00%
	Silver	2.50	2.40	95.9	mg/L	+/- 10.00%
	Thallium	2.50	2.43	97.4	mg/L	+/- 10.00%
	Vanadium	5.00	4.92	98.4	mg/L	+/- 10.00%
	Zinc	5.00	5.04	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400442
		Sequence:	S103313

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103313-CCV1	Aluminum	10.0	9.45	94.5	mg/L	+/- 10.00%
	Antimony	5.00	4.86	97.2	mg/L	+/- 10.00%
	Arsenic	5.00	4.86	97.2	mg/L	+/- 10.00%
	Barium	5.00	4.89	97.8	mg/L	+/- 10.00%
	Beryllium	5.00	4.68	93.7	mg/L	+/- 10.00%
	Cadmium	5.00	4.86	97.1	mg/L	+/- 10.00%
	Calcium	10.0	9.30	93.0	mg/L	+/- 10.00%
	Chromium	5.00	4.88	97.7	mg/L	+/- 10.00%
	Cobalt	5.00	4.88	97.6	mg/L	+/- 10.00%
	Iron	5.00	4.62	92.4	mg/L	+/- 10.00%
	Lead	5.00	4.92	98.5	mg/L	+/- 10.00%
	Magnesium	10.0	9.36	93.6	mg/L	+/- 10.00%
	Manganese	5.00	4.66	93.1	mg/L	+/- 10.00%
	Nickel	5.00	4.91	98.1	mg/L	+/- 10.00%
	Potassium	10.0	9.55	95.5	mg/L	+/- 10.00%
	Selenium	5.00	4.92	98.5	mg/L	+/- 10.00%
	Silver	2.50	2.36	94.2	mg/L	+/- 10.00%
	Thallium	2.50	2.42	96.7	mg/L	+/- 10.00%
	Vanadium	5.00	4.85	96.9	mg/L	+/- 10.00%
	Zinc	5.00	4.95	99.0	mg/L	+/- 10.00%
S103313-CCV2	Aluminum	10.0	9.51	95.1	mg/L	+/- 10.00%
	Antimony	5.00	4.75	94.9	mg/L	+/- 10.00%
	Arsenic	5.00	4.78	95.6	mg/L	+/- 10.00%
	Barium	5.00	4.83	96.6	mg/L	+/- 10.00%
	Beryllium	5.00	4.71	94.2	mg/L	+/- 10.00%
	Cadmium	5.00	4.78	95.5	mg/L	+/- 10.00%
	Calcium	10.0	9.27	92.7	mg/L	+/- 10.00%
	Chromium	5.00	4.82	96.4	mg/L	+/- 10.00%
	Cobalt	5.00	4.82	96.4	mg/L	+/- 10.00%
	Iron	5.00	4.69	93.8	mg/L	+/- 10.00%
	Lead	5.00	4.85	97.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP2

Calibration: 2400442

Sequence: S103313

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103313-CCV2	Magnesium	10.0	9.34	93.4	mg/L	+/- 10.00%
	Manganese	5.00	4.69	93.8	mg/L	+/- 10.00%
	Nickel	5.00	4.85	97.1	mg/L	+/- 10.00%
	Potassium	10.0	9.23	92.3	mg/L	+/- 10.00%
	Selenium	5.00	4.79	95.8	mg/L	+/- 10.00%
	Silver	2.50	2.38	95.2	mg/L	+/- 10.00%
	Thallium	2.50	2.38	95.1	mg/L	+/- 10.00%
	Vanadium	5.00	4.77	95.3	mg/L	+/- 10.00%
	Zinc	5.00	4.88	97.6	mg/L	+/- 10.00%
S103313-CCV3	Aluminum	10.0	9.42	94.2	mg/L	+/- 10.00%
	Antimony	5.00	4.78	95.5	mg/L	+/- 10.00%
	Arsenic	5.00	4.78	95.6	mg/L	+/- 10.00%
	Barium	5.00	4.83	96.6	mg/L	+/- 10.00%
	Beryllium	5.00	4.66	93.3	mg/L	+/- 10.00%
	Cadmium	5.00	4.76	95.3	mg/L	+/- 10.00%
	Calcium	10.0	9.21	92.1	mg/L	+/- 10.00%
	Chromium	5.00	4.81	96.1	mg/L	+/- 10.00%
	Cobalt	5.00	4.81	96.1	mg/L	+/- 10.00%
	Iron	5.00	4.67	93.4	mg/L	+/- 10.00%
	Lead	5.00	4.87	97.5	mg/L	+/- 10.00%
	Magnesium	10.0	9.28	92.8	mg/L	+/- 10.00%
	Manganese	5.00	4.66	93.3	mg/L	+/- 10.00%
	Nickel	5.00	4.82	96.3	mg/L	+/- 10.00%
	Potassium	10.0	9.21	92.1	mg/L	+/- 10.00%
	Selenium	5.00	4.82	96.4	mg/L	+/- 10.00%
	Silver	2.50	2.34	93.6	mg/L	+/- 10.00%
	Thallium	2.50	2.40	96.1	mg/L	+/- 10.00%
	Vanadium	5.00	4.78	95.6	mg/L	+/- 10.00%
	Zinc	5.00	4.84	96.9	mg/L	+/- 10.00%
S103313-CCV4	Aluminum	10.0	9.48	94.8	mg/L	+/- 10.00%
	Antimony	5.00	4.74	94.9	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400442
		Sequence:	S103313

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103313-CCV4	Arsenic	5.00	4.76	95.2	mg/L	+/- 10.00%
	Barium	5.00	4.85	96.9	mg/L	+/- 10.00%
	Beryllium	5.00	4.60	91.9	mg/L	+/- 10.00%
	Cadmium	5.00	4.78	95.6	mg/L	+/- 10.00%
	Calcium	10.0	9.21	92.1	mg/L	+/- 10.00%
	Chromium	5.00	4.83	96.6	mg/L	+/- 10.00%
	Cobalt	5.00	4.83	96.6	mg/L	+/- 10.00%
	Iron	5.00	4.68	93.7	mg/L	+/- 10.00%
	Lead	5.00	4.84	96.9	mg/L	+/- 10.00%
	Magnesium	10.0	9.31	93.1	mg/L	+/- 10.00%
	Manganese	5.00	4.69	93.8	mg/L	+/- 10.00%
	Nickel	5.00	4.85	97.1	mg/L	+/- 10.00%
	Potassium	10.0	9.14	91.4	mg/L	+/- 10.00%
	Selenium	5.00	4.77	95.5	mg/L	+/- 10.00%
	Silver	2.50	2.39	95.7	mg/L	+/- 10.00%
	Thallium	2.50	2.38	95.1	mg/L	+/- 10.00%
	Vanadium	5.00	4.79	95.7	mg/L	+/- 10.00%
	Zinc	5.00	4.87	97.5	mg/L	+/- 10.00%
S103313-CCV5	Aluminum	10.0	9.66	96.6	mg/L	+/- 10.00%
	Antimony	5.00	4.69	93.8	mg/L	+/- 10.00%
	Arsenic	5.00	4.70	94.1	mg/L	+/- 10.00%
	Barium	5.00	4.86	97.1	mg/L	+/- 10.00%
	Beryllium	5.00	4.51	90.1	mg/L	+/- 10.00%
	Cadmium	5.00	4.80	96.1	mg/L	+/- 10.00%
	Calcium	10.0	9.30	93.0	mg/L	+/- 10.00%
	Chromium	5.00	4.84	96.7	mg/L	+/- 10.00%
	Cobalt	5.00	4.83	96.6	mg/L	+/- 10.00%
	Iron	5.00	4.85	97.0	mg/L	+/- 10.00%
	Lead	5.00	4.84	96.7	mg/L	+/- 10.00%
	Magnesium	10.0	9.45	94.5	mg/L	+/- 10.00%
	Manganese	5.00	4.81	96.2	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400442
		Sequence:	S103313

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103313-CCV5	Nickel	5.00	4.84	96.7	mg/L	+/- 10.00%
	Selenium	5.00	4.70	93.9	mg/L	+/- 10.00%
	Silver	2.50	2.38	95.1	mg/L	+/- 10.00%
	Thallium	2.50	2.35	94.1	mg/L	+/- 10.00%
	Vanadium	5.00	4.81	96.3	mg/L	+/- 10.00%
	Zinc	5.00	4.88	97.7	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP3

Calibration: 2400450

Sequence: S103416

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103416-ICV1	Arsenic	2.00	1.95	97.5	mg/L	+/- 10.00%
	Barium	2.00	1.98	99.1	mg/L	+/- 10.00%
	Beryllium	2.00	1.98	98.8	mg/L	+/- 10.00%
	Cadmium	2.00	1.99	99.6	mg/L	+/- 10.00%
	Calcium	2.00	2.07	104	mg/L	+/- 10.00%
	Chromium	2.00	2.03	102	mg/L	+/- 10.00%
	Cobalt	2.00	2.03	102	mg/L	+/- 10.00%
	Copper	2.00	2.02	101	mg/L	+/- 10.00%
	Iron	2.00	2.11	106	mg/L	+/- 10.00%
	Magnesium	2.00	2.14	107	mg/L	+/- 10.00%
	Manganese	2.00	2.02	101	mg/L	+/- 10.00%
	Nickel	2.00	2.05	103	mg/L	+/- 10.00%
	Potassium	2.00	2.15	108	mg/L	+/- 10.00%
	Selenium	2.00	1.95	97.6	mg/L	+/- 10.00%
	Sodium	2.00	2.09	104	mg/L	+/- 10.00%
	Thallium	1.00	1.02	102	mg/L	+/- 10.00%
	Vanadium	2.00	2.05	102	mg/L	+/- 10.00%
	Zinc	2.00	2.04	102	mg/L	+/- 10.00%
S103416-CCV1	Arsenic	5.00	4.90	98.0	mg/L	+/- 10.00%
	Barium	5.00	4.98	99.5	mg/L	+/- 10.00%
	Beryllium	5.00	4.96	99.3	mg/L	+/- 10.00%
	Cadmium	5.00	4.98	99.7	mg/L	+/- 10.00%
	Calcium	10.0	10.2	102	mg/L	+/- 10.00%
	Chromium	5.00	5.04	101	mg/L	+/- 10.00%
	Cobalt	5.00	5.08	102	mg/L	+/- 10.00%
	Copper	5.00	5.00	99.9	mg/L	+/- 10.00%
	Iron	5.00	5.03	101	mg/L	+/- 10.00%
	Magnesium	10.0	10.1	101	mg/L	+/- 10.00%
	Manganese	5.00	5.08	102	mg/L	+/- 10.00%
	Nickel	5.00	5.18	104	mg/L	+/- 10.00%
	Potassium	10.0	10.1	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP3	Calibration:	2400450
		Sequence:	S103416

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103416-CCV1	Selenium	5.00	4.92	98.4	mg/L	+/- 10.00%
	Sodium	10.0	9.99	99.9	mg/L	+/- 10.00%
	Thallium	2.50	2.51	100	mg/L	+/- 10.00%
	Vanadium	5.00	5.16	103	mg/L	+/- 10.00%
	Zinc	5.00	5.26	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP3	Calibration:	2400450
		Sequence:	S103420

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103420-CCV1	Copper	5.00	5.03	101	mg/L	+/- 10.00%
	Potassium	10.0	10.2	102	mg/L	+/- 10.00%
	Sodium	10.0	10.0	100	mg/L	+/- 10.00%
	Zinc	5.00	5.10	102	mg/L	+/- 10.00%
S103420-CCV2	Copper	5.00	4.98	99.5	mg/L	+/- 10.00%
	Potassium	10.0	10.3	103	mg/L	+/- 10.00%
	Sodium	10.0	10.2	102	mg/L	+/- 10.00%
	Zinc	5.00	5.04	101	mg/L	+/- 10.00%
S103420-CCV3	Copper	5.00	4.90	98.0	mg/L	+/- 10.00%
	Potassium	10.0	10.1	101	mg/L	+/- 10.00%
	Sodium	10.0	10.1	101	mg/L	+/- 10.00%
	Zinc	5.00	4.98	99.6	mg/L	+/- 10.00%
S103420-CCV4	Copper	5.00	4.90	98.0	mg/L	+/- 10.00%
	Potassium	10.0	10.1	101	mg/L	+/- 10.00%
	Sodium	10.0	10.0	100	mg/L	+/- 10.00%
	Zinc	5.00	4.89	97.7	mg/L	+/- 10.00%
S103420-CCV5	Copper	5.00	4.96	99.2	mg/L	+/- 10.00%
	Potassium	10.0	10.4	104	mg/L	+/- 10.00%
	Sodium	10.0	10.2	102	mg/L	+/- 10.00%
	Zinc	5.00	4.88	97.6	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP4	Calibration:	UNASSIGNED
		Sequence:	S103428

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103428-ICV1	Copper	2.00	2.01	101	mg/L	+/- 10.00%
S103428-CCV1	Copper	5.00	4.79	95.8	mg/L	+/- 10.00%
S103428-CCV2	Copper	5.00	4.89	97.8	mg/L	+/- 10.00%

LOW-CONCENTRATION CALIBRATION VERIFICATION

90

SW-846 6010D

Laboratory: Pace New England

SDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Calibration: 2400423

Laboratory ID: S103055-LCV1

Sequence: S103055

Standard ID: 23J0971

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Cadmium	0.00400	0.00421	5.3	20.00
Chromium	0.0100	0.0104	4.2	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

91

SW-846 6010D

Laboratory: Pace New England

SDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Calibration: 2400442

Laboratory ID: S103290-LCV1

Sequence: S103290

Standard ID: 23J0971

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Aluminum	0.0500	0.0509	1.8	20.00
Antimony	0.0500	0.0420	-16.0	20.00
Arsenic	0.0100	0.00914	-8.6	20.00
Barium	0.0500	0.0499	-0.1	20.00
Beryllium	0.00400	0.00395	-1.2	20.00
Cadmium	0.00400	0.00381	-4.8	20.00
Calcium	0.500	0.490	-2.0	20.00
Chromium	0.0100	0.00982	-1.8	20.00
Cobalt	0.0100	0.00989	-1.1	20.00
Iron	0.0500	0.0507	1.4	20.00
Lead	0.0100	0.0101	1.5	20.00
Magnesium	0.0500	0.0543	8.6	20.00
Manganese	0.0100	0.00991	-0.9	20.00
Nickel	0.0100	0.00947	-5.3	20.00
Potassium	2.00	1.84	-8.1	20.00
Selenium	0.0500	0.0499	-0.3	20.00
Silver	0.0100	0.0105	5.3	20.00
Thallium	0.0500	0.0490	-2.0	20.00
Zinc	0.0100	0.0103	2.5	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

92

SW-846 6010D

Laboratory: Pace New England

SDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Calibration: 2400442

Laboratory ID: S103290-LCV2

Sequence: S103290

Standard ID: 23L0532

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Vanadium	0.0100	0.0111	11.1	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

93

SW-846 6010D

Laboratory: Pace New England

SDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Calibration: 2400450

Laboratory ID: S103416-LCV1

Sequence: S103416

Standard ID: 23J0971

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Arsenic	0.0100	0.0109	8.6	20.00
Barium	0.0500	0.0525	5.0	20.00
Beryllium	0.00400	0.00414	3.5	20.00
Cadmium	0.00400	0.00387	-3.4	20.00
Calcium	0.500	0.524	4.7	20.00
Chromium	0.0100	0.0109	9.2	20.00
Cobalt	0.0100	0.0104	3.6	20.00
Iron	0.0500	0.0549	9.8	20.00
Magnesium	0.0500	0.0563	12.7	20.00
Manganese	0.0100	0.0102	2.0	20.00
Nickel	0.0100	0.0106	6.2	20.00
Potassium	2.00	2.12	6.1	20.00
Selenium	0.0500	0.0452	-9.5	20.00
Sodium	2.00	2.07	3.6	20.00
Thallium	0.0500	0.0406	-18.8	20.00
Vanadium	0.0100	0.0103	3.4	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

94

SW-846 6010D**Laboratory:** Pace New England**SDG:** 24D0735**Client:** NYDEC_EA Engineering, Science & Tech. - NY**Project:** DW_Dzus Fastener Co. Inc.**Calibration:** 2400450**Laboratory ID:** S103416-LCV2**Sequence:** S103416**Standard ID:** 23L0532

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Copper	0.0100	0.00964	-3.6	20.00
Zinc	0.0100	0.0110	9.5	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

95

SW-846 6010D

Laboratory: Pace New England

SDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Calibration: UNASSIGNED

Laboratory ID: S103428-LCV1

Sequence: S103428

Standard ID: 23J0971

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Copper	0.0100	0.0103	2.9	20.00

* Values outside of QC limits

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New EnglandWork Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP4Calibration: 2400423

Sequence: S103055

Lab Sample ID	Analyte	Found	Units	RL	C
S103055-ICB1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New EnglandWork Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP4Calibration: 2400423

Sequence: S103057

Lab Sample ID	Analyte	Found	Units	RL	C
B370650-BLK1	Cadmium		mg/Kg wet	0.33	U
	Chromium		mg/Kg wet	0.66	U
S103057-CCB1	Cadmium		mg/L	0.010	U
	Chromium		mg/L	0.020	U
S103057-CCB2	Cadmium		mg/L	0.010	U
	Chromium		mg/L	0.020	U
S103057-CCB3	Cadmium		mg/L	0.010	U
	Chromium		mg/L	0.020	U

FORM 3 - Blank Summary

98

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400442
 Sequence: S103290

Lab Sample ID	Analyte	Found	Units	RL	C
S103290-ICB1	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U

FORM 3 - Blank Summary

99

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400442
 Sequence: S103313

Lab Sample ID	Analyte	Found	Units	RL	C
S103313-CCB1	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U
B371416-BLK1	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U

FORM 3 - Blank Summary

100

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400442
 Sequence: S103313

Lab Sample ID	Analyte	Found	Units	RL	C
B371416-BLK1	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U
S103313-CCB2	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U
S103313-CCB3	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U

FORM 3 - Blank Summary

101

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400442
 Sequence: S103313

Lab Sample ID	Analyte	Found	Units	RL	C
S103313-CCB3	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U
S103313-CCB4	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U

FORM 3 - Blank Summary

102

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400442
 Sequence: S103313

Lab Sample ID	Analyte	Found	Units	RL	C
S103313-CCB4	Zinc		mg/L	0.010	U
S103313-CCB5	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U

FORM 3 - Blank Summary

103

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP3 Calibration: 2400450
Sequence: S103416

Lab Sample ID	Analyte	Found	Units	RL	C
S103416-ICB1	Arsenic	0.00539	mg/L	0.010	
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Sodium		mg/L	2.0	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U

FORM 3 - Blank Summary

104

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP3 Calibration: 2400450
Sequence: S103420

Lab Sample ID	Analyte	Found	Units	RL	C
S103420-CCB1	Copper		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Sodium		mg/L	2.0	U
	Zinc		mg/L	0.010	U
B371416-BLK2	Sodium		mg/L	2.0	U
S103420-CCB2	Copper		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Sodium		mg/L	2.0	U
	Zinc		mg/L	0.010	U
S103420-CCB3	Copper		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Sodium		mg/L	2.0	U
	Zinc		mg/L	0.010	U
S103420-CCB4	Copper		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Sodium		mg/L	2.0	U
	Zinc		mg/L	0.010	U
S103420-CCB5	Copper		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Sodium		mg/L	2.0	U
	Zinc		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP4

Calibration: UNASSIGNED

Sequence: S103428

Lab Sample ID	Analyte	Found	Units	RL	C
S103428-ICB1	Copper		mg/L	0.010	U
B371416-BLK3	Copper		mg/L	0.010	U
S103428-CCB1	Copper		mg/L	0.010	U

INTERFERENCE CHECK SAMPLE

106

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - |

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP4

Calibration: 2400423

Sequence: S103057

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103057-IFA1	Cadmium	0.010		0.00		mg/L
	Chromium	0.020		0.01		mg/L
S103057-IFB1	Cadmium	0.010	2.00	2.01	101	mg/L
	Chromium	0.020	1.00	1.00	99.9	mg/L
S103057-IFA2	Cadmium	0.010		0.00		mg/L
	Chromium	0.020		0.01		mg/L
S103057-IFB2	Cadmium	0.010	2.00	2.02	101	mg/L
	Chromium	0.020	1.00	0.99	99.1	mg/L

INTERFERENCE CHECK SAMPLE

107

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. -

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP2

Calibration: 2400442

Sequence: S103313

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103313-IFA1	Aluminum	0.050	250	254.05	102	mg/L
	Antimony	0.050		0.01		mg/L
	Arsenic	0.010		0.00		mg/L
	Barium	0.050		0.00		mg/L
	Beryllium	0.0040		0.00		mg/L
	Cadmium	0.0040		0.00		mg/L
	Calcium	0.50	250	237.70	95.1	mg/L
	Chromium	0.010		0.00		mg/L
	Cobalt	0.010		0.00		mg/L
	Iron	0.050	100	94.10	94.1	mg/L
	Lead	0.010		0.01		mg/L
	Magnesium	0.050	250	225.49	90.2	mg/L
	Manganese	0.010		0.00		mg/L
	Nickel	0.010		0.01		mg/L
	Potassium	2.0		0.03		mg/L
	Selenium	0.050		-0.03		mg/L
	Silver	0.010		0.00		mg/L
	Thallium	0.050		0.00		mg/L
	Vanadium	0.010		0.00		mg/L
	Zinc	0.010		0.00		mg/L
S103313-IFB1	Aluminum	0.050	250	254.26	102	mg/L
	Antimony	0.050	1.20	1.09	90.8	mg/L
	Arsenic	0.010	0.200	0.18	91.4	mg/L
	Barium	0.050	1.00	0.96	96.0	mg/L
	Beryllium	0.0040	1.00	1.00	100	mg/L
	Cadmium	0.0040	2.00	1.96	98.1	mg/L
	Calcium	0.50	250	240.30	96.1	mg/L
	Chromium	0.010	1.00	0.93	93.2	mg/L
	Cobalt	0.010	1.00	0.88	88.2	mg/L
	Iron	0.050	100	95.17	95.2	mg/L
	Lead	0.010	0.100	0.10	96.2	mg/L
	Magnesium	0.050	250	227.78	91.1	mg/L
	Manganese	0.010	1.00	0.95	95.0	mg/L
	Nickel	0.010	2.00	1.75	87.5	mg/L
	Potassium	2.0		0.04		mg/L

INTERFERENCE CHECK SAMPLE

108

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. -

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP2

Calibration: 2400442

Sequence: S103313

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103313-IFB1	Selenium	0.050	0.500	0.47	94.1	mg/L
	Silver	0.010	0.400	0.41	102	mg/L
	Thallium	0.050	0.200	0.21	105	mg/L
	Vanadium	0.010	1.00	0.95	94.6	mg/L
	Zinc	0.010	2.00	1.79	89.6	mg/L
S103313-IFA2	Aluminum	0.050	250	251.73	101	mg/L
	Antimony	0.050		0.01		mg/L
	Arsenic	0.010		0.00		mg/L
	Barium	0.050		0.00		mg/L
	Beryllium	0.0040		0.00		mg/L
	Cadmium	0.0040		0.00		mg/L
	Calcium	0.50	250	231.10	92.4	mg/L
	Chromium	0.010		0.00		mg/L
	Cobalt	0.010		0.00		mg/L
	Iron	0.050	100	90.56	90.6	mg/L
	Lead	0.010		0.00		mg/L
	Magnesium	0.050	250	220.44	88.2	mg/L
	Manganese	0.010		0.00		mg/L
	Nickel	0.010		0.01		mg/L
	Potassium	2.0		0.18		mg/L
	Selenium	0.050		-0.03		mg/L
	Silver	0.010		0.00		mg/L
	Thallium	0.050		0.00		mg/L
	Vanadium	0.010		0.00		mg/L
	Zinc	0.010		0.00		mg/L
S103313-IFB2	Aluminum	0.050	250	251.59	101	mg/L
	Antimony	0.050	1.20	1.08	89.8	mg/L
	Arsenic	0.010	0.200	0.19	94.5	mg/L
	Barium	0.050	1.00	0.94	94.3	mg/L
	Beryllium	0.0040	1.00	0.97	96.7	mg/L
	Cadmium	0.0040	2.00	1.93	96.6	mg/L
	Calcium	0.50	250	230.97	92.4	mg/L
	Chromium	0.010	1.00	0.91	91.5	mg/L
	Cobalt	0.010	1.00	0.87	86.8	mg/L
	Iron	0.050	100	90.68	90.7	mg/L

INTERFERENCE CHECK SAMPLE

109

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. -

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP2

Calibration: 2400442

Sequence: S103313

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103313-IFB2	Lead	0.010	0.100	0.09	93.3	mg/L
	Magnesium	0.050	250	220.36	88.1	mg/L
	Manganese	0.010	1.00	0.90	90.4	mg/L
	Nickel	0.010	2.00	1.72	86.1	mg/L
	Potassium	2.0		0.13		mg/L
	Selenium	0.050	0.500	0.46	92.1	mg/L
	Silver	0.010	0.400	0.40	99.7	mg/L
	Thallium	0.050	0.200	0.20	101	mg/L
	Vanadium	0.010	1.00	0.94	93.8	mg/L
	Zinc	0.010	2.00	1.76	87.8	mg/L
S103313-IFA3	Aluminum	0.050	250	252.36	101	mg/L
	Antimony	0.050		0.01		mg/L
	Arsenic	0.010		0.00		mg/L
	Barium	0.050		0.00		mg/L
	Beryllium	0.0040		0.00		mg/L
	Cadmium	0.0040		0.00		mg/L
	Calcium	0.50	250	236.29	94.5	mg/L
	Chromium	0.010		0.00		mg/L
	Cobalt	0.010		0.00		mg/L
	Iron	0.050	100	95.21	95.2	mg/L
	Lead	0.010		0.00		mg/L
	Magnesium	0.050	250	223.44	89.4	mg/L
	Manganese	0.010		0.00		mg/L
	Nickel	0.010		0.01		mg/L
	Potassium	2.0		0.05		mg/L
	Selenium	0.050		-0.03		mg/L
	Silver	0.010		0.00		mg/L
	Thallium	0.050		0.01		mg/L
	Vanadium	0.010		0.00		mg/L
	Zinc	0.010		-0.01		mg/L
S103313-IFB3	Aluminum	0.050	250	248.49	99.4	mg/L
	Antimony	0.050	1.20	1.05	87.3	mg/L
	Arsenic	0.010	0.200	0.18	87.7	mg/L
	Barium	0.050	1.00	0.95	94.5	mg/L
	Beryllium	0.0040	1.00	0.92	92.3	mg/L

INTERFERENCE CHECK SAMPLE

110

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. -

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP2

Calibration: 2400442

Sequence: S103313

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103313-IFB3	Cadmium	0.0040	2.00	1.95	97.3	mg/L
	Calcium	0.50	250	235.16	94.1	mg/L
	Chromium	0.010	1.00	0.92	91.9	mg/L
	Cobalt	0.010	1.00	0.87	86.9	mg/L
	Iron	0.050	100	92.83	92.8	mg/L
	Lead	0.010	0.100	0.09	93.1	mg/L
	Magnesium	0.050	250	220.11	88.0	mg/L
	Manganese	0.010	1.00	0.92	92.4	mg/L
	Nickel	0.010	2.00	1.72	85.9	mg/L
	Potassium	2.0		0.06		mg/L
	Selenium	0.050	0.500	0.45	89.9	mg/L
	Silver	0.010	0.400	0.38	94.4	mg/L
	Thallium	0.050	0.200	0.21	104	mg/L
	Vanadium	0.010	1.00	0.93	93.4	mg/L
	Zinc	0.010	2.00	1.79	89.4	mg/L

INTERFERENCE CHECK SAMPLE

111

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. -

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP3

Calibration: 2400450

Sequence: S103420

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103420-IFA1	Copper	0.010		0.00		mg/L
	Potassium	2.0		-0.01		mg/L
	Sodium	2.0		0.04		mg/L
	Zinc	0.010		0.00		mg/L
S103420-IFB1	Copper	0.010	1.00	1.02	102	mg/L
	Potassium	2.0		0.06		mg/L
	Sodium	2.0		0.04		mg/L
	Zinc	0.010	2.00	1.91	95.3	mg/L
S103420-IFA2	Copper	0.010		0.00		mg/L
	Potassium	2.0		0.13		mg/L
	Sodium	2.0		0.06		mg/L
	Zinc	0.010		0.00		mg/L
S103420-IFB2	Copper	0.010	1.00	1.00	100	mg/L
	Potassium	2.0		0.06		mg/L
	Sodium	2.0		0.06		mg/L
	Zinc	0.010	2.00	1.82	90.9	mg/L

INTERFERENCE CHECK SAMPLE

112

SW-846 6010D

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - |

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: ICP4

Calibration: UNASSIGNED

Sequence: S103428

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103428-IFA1	Copper	0.010		0.00		mg/L
S103428-IFB1	Copper	0.010	1.00	0.97	97.0	mg/L
S103428-IFA2	Copper	0.010		0.00		mg/L
S103428-IFB2	Copper	0.010	1.00	0.96	96.3	mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

113

152033-SM-MW-22A-04022024

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Analysis:	SW-846 6010D
Batch:	B371416	Preparation:	SW-846 3005A
% Solids:		Laboratory ID:	B371416-MS1
Column:		Sample Lab ID:	24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Aluminum	0.500	0.0495	0.543	98.7	75 - 125
Antimony	0.500	ND	0.495	99.0	75 - 125
Arsenic	0.500	ND	0.475	95.0	75 - 125
Barium	0.500	0.0197	0.509	97.8	75 - 125
Beryllium	0.500	ND	0.488	97.5	75 - 125
Cadmium	0.500	ND	0.495	98.9	75 - 125
Calcium	4.00	26.4	30.3	97.7	75 - 125
Chromium	0.500	ND	0.494	98.7	75 - 125
Cobalt	0.500	ND	0.484	96.8	75 - 125
Iron	4.00	2.15	5.88	93.4	75 - 125
Lead	0.500	ND	0.482	96.5	75 - 125
Magnesium	4.00	4.98	8.73	93.7	75 - 125
Manganese	0.500	0.185	0.649	92.7	75 - 125
Nickel	0.500	ND	0.485	97.1	75 - 125
Potassium	4.00	0.858	4.66	95.0	75 - 125
Selenium	0.500	ND	0.500	100	75 - 125
Silver	0.500	ND	0.510	102	75 - 125
Thallium	0.500	ND	0.492	98.5	75 - 125
Vanadium	0.500	ND	0.495	99.0	75 - 125
Zinc	1.00	0.0787	1.07	99.2	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

114

152033-SM-MW-22A-04022024

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Analysis:	SW-846 6010D
Batch:	B371416	Preparation:	SW-846 3005A
% Solids:		Laboratory ID:	B371416-MSD1
Column:		Sample Lab ID:	24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Aluminum	0.500	0.552	101	1.64	20	75 - 125
Antimony	0.500	0.486	97.2	1.84	20	75 - 125
Arsenic	0.500	0.465	93.0	2.11	20	75 - 125
Barium	0.500	0.501	96.3	1.48	20	75 - 125
Beryllium	0.500	0.479	95.8	1.81	20	75 - 125
Cadmium	0.500	0.487	97.5	1.47	20	75 - 125
Calcium	4.00	30.0	89.3	1.11	20	75 - 125
Chromium	0.500	0.486	97.3	1.48	20	75 - 125
Cobalt	0.500	0.477	95.4	1.42	20	75 - 125
Iron	4.00	5.95	95.1	1.19	20	75 - 125
Lead	0.500	0.474	94.9	1.68	20	75 - 125
Magnesium	4.00	8.73	93.7	0.0216	20	75 - 125
Manganese	0.500	0.655	93.8	0.871	20	75 - 125
Nickel	0.500	0.479	95.7	1.37	20	75 - 125
Potassium	4.00	4.56	92.6	2.07	20	75 - 125
Selenium	0.500	0.491	98.3	1.73	20	75 - 125
Silver	0.500	0.502	100	1.53	20	75 - 125
Thallium	0.500	0.487	97.4	1.06	20	75 - 125
Vanadium	0.500	0.488	97.5	1.46	20	75 - 125
Zinc	1.00	1.05	97.3	1.81	20	75 - 125

152033-SM-MW-22A-04022024

Laboratory: Pace New England

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Batch: B371416

% Solids:

Column:

Work Order: 24D0735

Project: DW_Dzus Fastener Co. Inc.

Analysis: SW-846 6010D

Preparation: SW-846 3005A

Laboratory ID: B371416-MS2

Sample Lab ID: 24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Copper	1.00	0.0113	1.03	102	75 - 125
Sodium	4.00	65.2	69.2	99.4	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Copper	1.00	1.03	102	0.167	20	75 - 125
Sodium	4.00	71.3 MS-19	151	2.95	20	75 - 125

POST DIGEST SPIKE SAMPLE RECOVERY

116

24D0735-04

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Laboratory ID:	B371416-PS1
Batch:	B371416	Analysis:	SW-846 6010D
Preparation:	SW-846 3005A	Initial/Final:	4.9 mL / 5 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Aluminum	2.01	0.0485	2.00	98.1	75 - 125
Antimony	1.94	ND	2.00	96.6	75 - 125
Arsenic	1.87	ND	2.00	93.7	75 - 125
Barium	1.92	0.0193	2.00	95.2	75 - 125
Beryllium	1.94	ND	2.00	97.1	75 - 125
Cadmium	1.92	ND	2.00	96.2	75 - 125
Calcium	40.8	25.9	16.0	93.7	75 - 125
Chromium	1.91	ND	2.00	95.1	75 - 125
Cobalt	1.87	ND	2.00	93.7	75 - 125
Iron	16.8	2.10	16.0	92.1	75 - 125
Lead	1.87	ND	2.00	93.6	75 - 125
Magnesium	19.9	4.88	16.0	94.2	75 - 125
Manganese	2.03	0.182	2.00	92.3	75 - 125
Nickel	1.88	ND	2.00	93.7	75 - 125
Potassium	16.6	0.841	16.0	98.3	75 - 125
Selenium	1.96	ND	2.00	97.9	75 - 125
Silver	1.90	ND	2.00	95.0	75 - 125
Thallium	2.01	ND	2.00	100	75 - 125
Vanadium	1.92	ND	2.00	96.0	75 - 125
Zinc	3.87	0.0772	4.00	94.8	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Soil	Preparation:	SW-846 3050B
Batch:	B370650	Laboratory ID:	B370650-BS1
Column:		Initial/Final:	0.505 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Cadmium	212	242	114	82.5 - 117.9
Chromium	180	220	122 *	81.1 - 118.3

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Cadmium	212	212	100	13.1	20	82.5 - 117.9
Chromium	180	184	102	17.8	30	81.1 - 118.3

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 3005A
Batch:	B371416	Laboratory ID:	B371416-BS1
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Aluminum	0.500	0.495	99.0	80 - 120
Antimony	0.500	0.491	98.3	80 - 120
Arsenic	0.500	0.471	94.1	80 - 120
Barium	0.500	0.500	100	80 - 120
Beryllium	0.500	0.490	97.9	80 - 120
Cadmium	0.500	0.495	99.0	80 - 120
Calcium	4.00	3.78	94.5	80 - 120
Chromium	0.500	0.498	99.6	80 - 120
Cobalt	0.500	0.493	98.7	80 - 120
Iron	4.00	3.77	94.2	80 - 120
Lead	0.500	0.492	98.5	80 - 120
Magnesium	4.00	3.84	96.0	80 - 120
Manganese	0.500	0.470	94.0	80 - 120
Nickel	0.500	0.497	99.5	80 - 120
Potassium	4.00	3.78	94.5	80 - 120
Selenium	0.500	0.495	98.9	80 - 120
Silver	0.500	0.517	103	80 - 120
Thallium	0.500	0.476	95.1	80 - 120
Vanadium	0.500	0.494	98.9	80 - 120
Zinc	1.00	1.00	100	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Aluminum	0.500	0.478	95.6	3.55	30	80 - 120
Antimony	0.500	0.488	97.6	0.682	20	80 - 120
Arsenic	0.500	0.466	93.2	0.946	20	80 - 120
Barium	0.500	0.495	99.0	1.01	20	80 - 120
Beryllium	0.500	0.484	96.8	1.15	20	80 - 120
Cadmium	0.500	0.491	98.2	0.821	20	80 - 120
Calcium	4.00	3.72	92.9	1.70	20	80 - 120
Chromium	0.500	0.493	98.6	0.963	20	80 - 120
Cobalt	0.500	0.488	97.6	1.09	20	80 - 120
Iron	4.00	3.71	92.6	1.72	20	80 - 120
Lead	0.500	0.490	98.1	0.401	20	80 - 120
Magnesium	4.00	3.77	94.3	1.82	20	80 - 120
Manganese	0.500	0.466	93.2	0.871	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 3005A
Batch:	B371416	Laboratory ID:	B371416-BSD1
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Nickel	0.500	0.493	98.5	0.932	30	80 - 120
Potassium	4.00	3.80	95.0	0.499	20	80 - 120
Selenium	0.500	0.495	99.1	0.124	20	80 - 120
Silver	0.500	0.513	103	0.778	20	80 - 120
Thallium	0.500	0.475	95.0	0.0779	20	80 - 120
Vanadium	0.500	0.489	97.8	1.09	20	80 - 120
Zinc	1.00	0.992	99.2	0.839	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 3005A
Batch:	B371416	Laboratory ID:	B371416-BS2
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Copper	1.00	0.991	99.1	80 - 120
Sodium	4.00	4.05	101	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Copper	1.00	0.992	99.2	0.0976	20	80 - 120
Sodium	4.00	4.04	101	0.211	20	80 - 120

SERIAL DILUTION

SW-846 6010D

Laboratory: Pace New England

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Soil

Sequence: B370650

Work Order: 24D0735

Project: DW_Dzus Fastener Co. Inc.

Laboratory ID: B370650-SRL1

Source: Dilution Check

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Chromium	ND	ND	N/A		20.00
Cadmium	ND	ND	N/A		20.00

SERIAL DILUTION

122

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Laboratory ID:	B371416-SRL1
Sequence:	B371416	Source:	152033-SM-MW-22A-04022024

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Arsenic	ND	ND	N/A		20.00
Iron	2.15	2.13	0.809		20.00
Lead	ND	ND	N/A		20.00
Magnesium	4.98	4.83	2.93		20.00
Manganese	0.185	0.184	0.742		20.00
Nickel	ND	ND	N/A		20.00
Potassium	ND	ND	N/A		20.00
Silver	ND	0.0146	N/A		20.00
Aluminum	ND	ND	N/A		20.00
Antimony	ND	ND	N/A		20.00
Selenium	ND	ND	N/A		20.00
Barium	ND	ND	N/A		20.00
Beryllium	ND	ND	N/A		20.00
Cadmium	ND	ND	N/A		20.00
Chromium	ND	ND	N/A		20.00
Cobalt	ND	ND	N/A		20.00
Vanadium	ND	ND	N/A		20.00
Zinc	0.0787	0.0722	8.69		20.00
Calcium	26.4	26.1	1.19		20.00
Thallium	ND	ND	N/A		20.00

METHOD DETECTION AND REPORTING LIMITS

123

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Instrument: ICP2

Analyte	MDL	MRL	Units	Method
Aluminum	0.025	0.050	mg/L	SW-846 6010D
Antimony	0.011	0.050	mg/L	SW-846 6010D
Arsenic	0.0050	0.010	mg/L	SW-846 6010D
Barium	0.0098	0.050	mg/L	SW-846 6010D
Beryllium	0.00090	0.0040	mg/L	SW-846 6010D
Cadmium	0.0015	0.0040	mg/L	SW-846 6010D
Calcium	0.21	0.50	mg/L	SW-846 6010D
Chromium	0.0053	0.010	mg/L	SW-846 6010D
Cobalt	0.0027	0.010	mg/L	SW-846 6010D
Iron	0.036	0.050	mg/L	SW-846 6010D
Lead	0.0044	0.010	mg/L	SW-846 6010D
Magnesium	0.016	0.050	mg/L	SW-846 6010D
Manganese	0.0018	0.010	mg/L	SW-846 6010D
Nickel	0.0046	0.010	mg/L	SW-846 6010D
Potassium	0.47	2.0	mg/L	SW-846 6010D
Selenium	0.0085	0.050	mg/L	SW-846 6010D
Silver	0.0044	0.010	mg/L	SW-846 6010D
Thallium	0.016	0.050	mg/L	SW-846 6010D
Vanadium	0.0054	0.010	mg/L	SW-846 6010D
Zinc	0.0080	0.010	mg/L	SW-846 6010D

METHOD DETECTION AND REPORTING LIMITS

124

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Instrument: ICP3

Analyte	MDL	MRL	Units	Method
Copper	0.0095	0.010	mg/L	SW-846 6010D
Potassium	0.47	2.0	mg/L	SW-846 6010D
Sodium	0.38	2.0	mg/L	SW-846 6010D

METHOD DETECTION AND REPORTING LIMITS

125

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Soil

Instrument: ICP4

Analyte	MDL	MRL	Units	Method
Cadmium	0.24	0.50	mg/Kg	SW-846 6010D
Chromium	0.63	1.0	mg/Kg	SW-846 6010D

PREPARATION BATCH SUMMARY

126

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Batch: B370650 Batch Matrix: Soil Preparation: SW-846 3050B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-SD-11-04012024	24D0735-01	04/05/24 13:20	1.58	50.00
152033-SM-SD-FD-04012024	24D0735-02	04/05/24 13:20	1.54	50.00
Blank	B370650-BLK1	04/05/24 13:20	1.52	50.00
LCS	B370650-BS1	04/05/24 13:20	0.51	50.00
LCS Dup	B370650-BSD1	04/05/24 13:20	0.50	50.00
Dilution Check	B370650-SRL1	04/05/24 13:20	1.52	50.00

PREPARATION BATCH SUMMARY

127

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Batch: B371416 Batch Matrix: Water Preparation: SW-846 3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-MW-22B-04022024	24D0735-03	04/16/24 14:00	50.00	50.00
152033-SM-MW-22A-04022024	24D0735-04	04/16/24 14:00	50.00	50.00
152033-SM-MW-13B-04022024	24D0735-05	04/16/24 14:00	50.00	50.00
152033-SM-MW-13A-04022024	24D0735-06	04/16/24 14:00	50.00	50.00
152033-SM-MW-9B-04022024	24D0735-07	04/16/24 14:00	50.00	50.00
152033-SM-MW-9-04022024	24D0735-08	04/16/24 14:00	50.00	50.00
152033-SM-MW-23A-04022024	24D0735-09	04/16/24 14:00	50.00	50.00
152033-SM-MW-23B-04022024	24D0735-10	04/16/24 14:00	50.00	50.00
152033-SM-MW-17-04032024	24D0735-11	04/16/24 14:00	50.00	50.00
152033-SM-MW-15B-04032024	24D0735-12	04/16/24 14:00	50.00	50.00
152033-SM-MW-15A-04032024	24D0735-13	04/16/24 14:00	50.00	50.00
152033-SM-MW-18-04032024	24D0735-14	04/16/24 14:00	50.00	50.00
152033-SM-MW-2-04032024	24D0735-15	04/16/24 14:00	50.00	50.00
152033-SM-MW-1-04032024	24D0735-16	04/16/24 14:00	50.00	50.00
152033-SM-MW-FD-04022024	24D0735-17	04/16/24 14:00	50.00	50.00
Blank	B371416-BLK1	04/13/24 10:47	50.00	50.00
Blank	B371416-BLK2	04/13/24 10:47	50.00	50.00
Blank	B371416-BLK3	04/13/24 10:47	50.00	50.00
LCS	B371416-BS1	04/13/24 10:47	50.00	50.00
LCS	B371416-BS2	04/13/24 10:47	50.00	50.00
LCS Dup	B371416-BSD1	04/13/24 10:47	50.00	50.00
LCS Dup	B371416-BSD2	04/13/24 10:47	50.00	50.00
152033-SM-MW-22A-04022024	B371416-MS1	04/13/24 10:47	50.00	50.00
152033-SM-MW-22A-04022024	B371416-MS2	04/13/24 10:47	50.00	50.00
152033-SM-MW-22A-04022024	B371416-MSD1	04/13/24 10:47	50.00	50.00
152033-SM-MW-22A-04022024	B371416-MSD2	04/13/24 10:47	50.00	50.00
152033-SM-MW-22A-04022024	B371416-SRL1	04/13/24 10:47	50.00	50.00

PREPARATION BENCH SHEET B370650

128

Prepared: 04/05/24 13:20

Printed: 4/22/2024 11:08:57AM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due	TAT	Spike Amount uL 1 2	Comments	Priority
B370650-BLK1	Blank		1.521	50					
B370650-BS1	LCS		0.505	50			505		
B370650-BSD1	LCS Dup		0.504	50			504		
B370650-MS1	Matrix Spike [24D0729-08]		1.535	50			250		
B370650-MSD1	Matrix Spike Dup [24D0729-08]		1.521	50			250		
B370650-PS1	Post Spike [24D0729-08]		1.521	50			1000		
B370650-SRL1	Dilution Check [24D0729-08]		1.521	50					
24D0729-08	152033-SM-SD-14-0401 A 2024		1.521	50	04/19/24	10		CAT B - Report to MDL	
24D0729-09	152033-SM-SD-13-0401 A 2024		1.563	50	04/19/24	10		CAT B - Report to MDL	
24D0729-10	152033-SM-SD-12-0401 A 2024		1.508	50	04/19/24	10		CAT B - Report to MDL	
24D0729-11	152033-SM-SD-09-0401 A 2024		1.552	50	04/19/24	10		CAT B - Report to MDL	
24D0729-12	152033-SM-SD-08-0401 A 2024		1.555	50	04/19/24	10		CAT B - Report to MDL	
24D0729-13	152033-SM-SD-07-0401 A 2024		1.575	50	04/19/24	10		CAT B - Report to MDL	
24D0729-14	152033-SM-SD-04-0401 A 2024		1.587	50	04/19/24	10		CAT B - Report to MDL	
24D0729-15	152033-SM-SD-03-0401 A 2024		1.505	50	04/19/24	10		CAT B - Report to MDL	
24D0729-16	152033-SM-SD-06-0401 A 2024		1.591	50	04/19/24	10		CAT B - Report to MDL	
24D0729-17	152033-SM-SD-01-0401 A 2024		1.538	50	04/19/24	10		CAT B - Report to MDL	
24D0729-18	152033-SM-SD-02-0401 A 2024		1.533	50	04/19/24	10		CAT B - Report to MDL	
24D0729-19	152033-SM-SD-05-0401 A 2024		1.569	50	04/19/24	10		CAT B - Report to MDL	
24D0729-20	152033-SM-SD-10-0401 A 2024		1.542	50	04/19/24	10		CAT B - Report to MDL	
24D0735-01	152033-SM-SD-11-0401 A 2024		1.575	50	04/19/24	10		CAT B - Report to MDL	
24D0735-02	152033-SM-SD-FD-0401A 2024		1.543	50	04/19/24	10		CAT B - Report to MDL	

Cd	Cr

Standard(s):	Standard ID#	Description
2305069 QC Standard CUSTOM BLEND 1000 uL	2307848	Hydrogen Peroxide (Fisher) 30% C
250 uL	23K0734	Resin Pellets Solid Matrix
24B0961 SRM D123-540 504 uL	24B0767	Ultimate Cup, 50mL Digestion tube
505 uL	24C0444	Nitric Acid 69-70%

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B370650

129

Prepared: 04/05/24 13:20

Printed: 4/22/2024 11:08:57AM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 2	Comments	Priority

EPPENDORF #M21639E
SR3 @ 95C
SCALE 2,3

SPIKED NDC 4/8/24
WITNESSED LD 4/8/24

DIGESTION START 1249
DURATION 1.25 HR

BROUGHT TO VOLUME DML 4/10/24
VERIFIED LD 4/10/24

6010 SOIL

24D0729-12 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-12 Chromium 6010 Total	CAT B - Report to MDL
24D0735-02 Chromium 6010 Total	CAT B - Report to MDL
24D0735-02 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-13 Chromium 6010 Total	CAT B - Report to MDL
24D0729-17 Chromium 6010 Total	CAT B - Report to MDL
24D0729-19 Chromium 6010 Total	CAT B - Report to MDL
24D0729-13 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-08 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-08 Chromium 6010 Total	CAT B - Report to MDL
24D0729-09 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-09 Chromium 6010 Total	CAT B - Report to MDL
24D0729-10 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-10 Chromium 6010 Total	CAT B - Report to MDL
24D0729-11 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-11 Chromium 6010 Total	CAT B - Report to MDL
24D0729-14 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-14 Chromium 6010 Total	CAT B - Report to MDL
24D0729-15 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-15 Chromium 6010 Total	CAT B - Report to MDL
24D0729-16 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-16 Chromium 6010 Total	CAT B - Report to MDL
24D0729-17 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-18 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-18 Chromium 6010 Total	CAT B - Report to MDL
24D0729-19 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-20 Cadmium 6010 Total	CAT B - Report to MDL
24D0729-20 Chromium 6010 Total	CAT B - Report to MDL
24D0735-01 Cadmium 6010 Total	CAT B - Report to MDL
24D0735-01 Chromium 6010 Total	CAT B - Report to MDL

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B371416

130

Prepared: 04/13/24 10:47

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due	TAT	Spike Amount uL 1 2	Comments	Priority
B371416-BLK1	Blank		50	50					
B371416-BLK2	Blank		50	50				Added 4/19/2024 by	
B371416-BLK3	Blank		50	50				Added 4/19/2024 by	
B371416-BS1	LCS		50	50			250		
B371416-BS2	LCS		50	50			250	Added 4/19/2024 by	
B371416-BSD1	LCS Dup		50	50			250		
B371416-BSD2	LCS Dup		50	50			250	Added 4/19/2024 by	
B371416-MS1	Matrix Spike [24D0735-04]		50	50			250		
B371416-MS2	Matrix Spike [24D0735-04]		50	50			250	Added 4/19/2024 by	
B371416-MSD1	Matrix Spike Dup [24D0735-04]		50	50			250		
B371416-MSD2	Matrix Spike Dup [24D0735-04]		50	50			250	Added 4/19/2024 by	
B371416-PS1	Post Spike [24D0735-04]		4.9	5			100		
B371416-SRL1	Dilution Check [24D0735-04]		50	50					
24D0735-03	152033-SM-MW-22B-04 A 022024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-04	152033-SM-MW-22A-04 A 022024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-05	152033-SM-MW-13B-04 A 022024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-06	152033-SM-MW-13A-04 A 022024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-07	152033-SM-MW-9B-040 B 22024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-08	152033-SM-MW-9-0402 A 2024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-09	152033-SM-MW-23A-04 A 022024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-10	152033-SM-MW-23B-04 A 022024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-11	152033-SM-MW-17-040 B 32024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-12	152033-SM-MW-15B-04 B 032024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-13	152033-SM-MW-15A-04 B 032024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-14	152033-SM-MW-18-040 B 32024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-15	152033-SM-MW-2-0403 A 2024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-16	152033-SM-MW-1-0403 B 2024		50	50	04/19/24	10		CAT B - Report to MDL	
24D0735-17	152033-SM-MW-FD-040 A 22024		50	50	04/19/24	10		CAT B - Report to MDL	

Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B371416

131

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 2	Comments	Priority
Ag								

Standard(s):

2305069 QC Standard CUSTOM BLEND 100 uL
250 uL

Standard ID#

Description

24B0767 Ultimate Cup, 50mL Digestion tube
24C0444 Nitric Acid 69-70%
24C0545 1:1 HCl

EPPENDORF #M21639E
SR3 @ 95C

pH <2 VERIFIED @ 1430 AGG 04-16-24

SPIKED AGG 04-16-24
WITNESSED DML 04-16-24

DIGESTION START 1455
DURATION 2.5 HR

BROUGHT TO VOLUME DML 04-17-24
VERIFIED AMV 04-17-24

6010 TW

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B371416

132

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due TAT	Spike Amount uL		Comments	Priority
			DIGESTED	mL	g L			1	2		
24D0735-08	Chromium 6010 Total	CAT B - Report to MDL									
24D0735-08	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-08	Copper 6010 Total	CAT B - Report to MDL									
24D0735-08	Iron 6010 Total	CAT B - Report to MDL									
24D0735-08	Lead 6010 Total	CAT B - Report to MDL									
24D0735-08	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-08	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-08	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-08	Vanadium 6010 Total	CAT B - Report to MDL									
24D0735-08	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-08	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-08	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-08	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-08	Silver 6010 Total	CAT B - Report to MDL									
24D0735-08	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-08	Magnesium 6010 Total	CAT B - Report to MDL									
24D0735-08	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-09	Aluminum 6010 Total	CAT B - Report to MDL									
24D0735-09	Antimony 6010 Total	CAT B - Report to MDL									
24D0735-09	Arsenic 6010 Total	CAT B - Report to MDL									
24D0735-09	Barium 6010 Total	CAT B - Report to MDL									
24D0735-09	Beryllium 6010 Total	CAT B - Report to MDL									
24D0735-09	Chromium 6010 Total	CAT B - Report to MDL									
24D0735-09	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-09	Copper 6010 Total	CAT B - Report to MDL									
24D0735-09	Iron 6010 Total	CAT B - Report to MDL									
24D0735-09	Lead 6010 Total	CAT B - Report to MDL									
24D0735-09	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-09	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-09	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-09	Vanadium 6010 Total	CAT B - Report to MDL									
24D0735-09	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-09	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-09	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-09	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-09	Magnesium 6010 Total	CAT B - Report to MDL									
24D0735-10	Antimony 6010 Total	CAT B - Report to MDL									
24D0735-10	Arsenic 6010 Total	CAT B - Report to MDL									
24D0735-10	Chromium 6010 Total	CAT B - Report to MDL									
24D0735-10	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-10	Lead 6010 Total	CAT B - Report to MDL									
24D0735-10	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-10	Vanadium 6010 Total	CAT B - Report to MDL									
24D0735-10	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-10	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-10	Silver 6010 Total	CAT B - Report to MDL									
24D0735-10	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-11	Aluminum 6010 Total	CAT B - Report to MDL									
24D0735-09	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-09	Silver 6010 Total	CAT B - Report to MDL									
24D0735-09	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-10	Aluminum 6010 Total	CAT B - Report to MDL									

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B371416

133

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount uL		Comments	Priority
			DIGESTED	mL	g L				1	2		
24D0735-10	Barium 6010 Total	CAT B - Report to MDL										
24D0735-10	Beryllium 6010 Total	CAT B - Report to MDL										
24D0735-10	Copper 6010 Total	CAT B - Report to MDL										
24D0735-10	Iron 6010 Total	CAT B - Report to MDL										
24D0735-10	Calcium 6010 Total	CAT B - Report to MDL										
24D0735-10	Thallium 6010 Total	CAT B - Report to MDL										
24D0735-10	Nickel 6010 Total	CAT B - Report to MDL										
24D0735-10	Potassium 6010 Total	CAT B - Report to MDL										
24D0735-10	Sodium 6010 Total	CAT B - Report to MDL										
24D0735-10	Magnesium 6010 Total	CAT B - Report to MDL										
24D0735-11	Antimony 6010 Total	CAT B - Report to MDL										
24D0735-11	Arsenic 6010 Total	CAT B - Report to MDL										
24D0735-11	Barium 6010 Total	CAT B - Report to MDL										
24D0735-11	Beryllium 6010 Total	CAT B - Report to MDL										
24D0735-11	Copper 6010 Total	CAT B - Report to MDL										
24D0735-11	Iron 6010 Total	CAT B - Report to MDL										
24D0735-11	Calcium 6010 Total	CAT B - Report to MDL										
24D0735-11	Thallium 6010 Total	CAT B - Report to MDL										
24D0735-13	Silver 6010 Total	CAT B - Report to MDL										
24D0735-13	Sodium 6010 Total	CAT B - Report to MDL										
24D0735-03	Antimony 6010 Total	CAT B - Report to MDL										
24D0735-03	Arsenic 6010 Total	CAT B - Report to MDL										
24D0735-03	Chromium 6010 Total	CAT B - Report to MDL										
24D0735-03	Vanadium 6010 Total	CAT B - Report to MDL										
24D0735-04	Antimony 6010 Total	CAT B - Report to MDL										
24D0735-04	Arsenic 6010 Total	CAT B - Report to MDL										
24D0735-13	Vanadium 6010 Total	CAT B - Report to MDL										
24D0735-13	Zinc 6010 Total	CAT B - Report to MDL										
24D0735-11	Chromium 6010 Total	CAT B - Report to MDL										
24D0735-11	Cobalt 6010 Total	CAT B - Report to MDL										
24D0735-11	Lead 6010 Total	CAT B - Report to MDL										
24D0735-11	Cadmium 6010 Total	CAT B - Report to MDL										
24D0735-13	Potassium 6010 Total	CAT B - Report to MDL										
24D0735-13	Selenium 6010 Total	CAT B - Report to MDL										
24D0735-03	Cadmium 6010 Total	CAT B - Report to MDL										
24D0735-03	Aluminum 6010 Total	CAT B - Report to MDL										
24D0735-03	Barium 6010 Total	CAT B - Report to MDL										
24D0735-03	Beryllium 6010 Total	CAT B - Report to MDL										
24D0735-03	Zinc 6010 Total	CAT B - Report to MDL										
24D0735-04	Aluminum 6010 Total	CAT B - Report to MDL										
24D0735-04	Barium 6010 Total	CAT B - Report to MDL										
24D0735-13	Thallium 6010 Total	CAT B - Report to MDL										
24D0735-14	Aluminum 6010 Total	CAT B - Report to MDL										
24D0735-14	Antimony 6010 Total	CAT B - Report to MDL										
24D0735-14	Arsenic 6010 Total	CAT B - Report to MDL										
24D0735-14	Barium 6010 Total	CAT B - Report to MDL										
24D0735-14	Cobalt 6010 Total	CAT B - Report to MDL										
24D0735-14	Copper 6010 Total	CAT B - Report to MDL										
24D0735-17	Aluminum 6010 Total	CAT B - Report to MDL										
24D0735-17	Antimony 6010 Total	CAT B - Report to MDL										
24D0735-17	Beryllium 6010 Total	CAT B - Report to MDL										
24D0735-17	Chromium 6010 Total	CAT B - Report to MDL										

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B371416

134

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due TAT	Spike Amount uL		Comments	Priority
			DIGESTED	mL	g L			1	2		
24D0735-17	Iron 6010 Total	CAT B - Report to MDL									
24D0735-17	Lead 6010 Total	CAT B - Report to MDL									
24D0735-17	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-17	Vanadium 6010 Total	CAT B - Report to MDL									
24D0735-17	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-17	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-17	Magnesium 6010 Total	CAT B - Report to MDL									
24D0735-17	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-14	Beryllium 6010 Total	CAT B - Report to MDL									
24D0735-14	Chromium 6010 Total	CAT B - Report to MDL									
24D0735-14	Iron 6010 Total	CAT B - Report to MDL									
24D0735-14	Lead 6010 Total	CAT B - Report to MDL									
24D0735-14	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-14	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-14	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-14	Magnesium 6010 Total	CAT B - Report to MDL									
24D0735-14	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-14	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-14	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-14	Silver 6010 Total	CAT B - Report to MDL									
24D0735-14	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-14	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-14	Vanadium 6010 Total	CAT B - Report to MDL									
24D0735-14	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-15	Aluminum 6010 Total	CAT B - Report to MDL									
24D0735-15	Antimony 6010 Total	CAT B - Report to MDL									
24D0735-15	Arsenic 6010 Total	CAT B - Report to MDL									
24D0735-15	Barium 6010 Total	CAT B - Report to MDL									
24D0735-15	Beryllium 6010 Total	CAT B - Report to MDL									
24D0735-15	Chromium 6010 Total	CAT B - Report to MDL									
24D0735-15	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-15	Copper 6010 Total	CAT B - Report to MDL									
24D0735-15	Iron 6010 Total	CAT B - Report to MDL									
24D0735-15	Lead 6010 Total	CAT B - Report to MDL									
24D0735-15	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-15	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-15	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-15	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-15	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-15	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-15	Silver 6010 Total	CAT B - Report to MDL									
24D0735-15	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-15	Magnesium 6010 Total	CAT B - Report to MDL									
24D0735-15	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-15	Vanadium 6010 Total	CAT B - Report to MDL									
24D0735-15	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-16	Aluminum 6010 Total	CAT B - Report to MDL									
24D0735-16	Antimony 6010 Total	CAT B - Report to MDL									
24D0735-16	Arsenic 6010 Total	CAT B - Report to MDL									
24D0735-16	Barium 6010 Total	CAT B - Report to MDL									
24D0735-16	Beryllium 6010 Total	CAT B - Report to MDL									
24D0735-16	Chromium 6010 Total	CAT B - Report to MDL									

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B371416

135

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due TAT	Spike Amount uL		Comments	Priority
			DIGESTED	mL	g L			1	2		
24D0735-16	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-16	Copper 6010 Total	CAT B - Report to MDL									
24D0735-16	Iron 6010 Total	CAT B - Report to MDL									
24D0735-16	Lead 6010 Total	CAT B - Report to MDL									
24D0735-16	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-16	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-16	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-16	Vanadium 6010 Total	CAT B - Report to MDL									
24D0735-16	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-16	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-16	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-16	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-16	Silver 6010 Total	CAT B - Report to MDL									
24D0735-16	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-16	Magnesium 6010 Total	CAT B - Report to MDL									
24D0735-16	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-17	Arsenic 6010 Total	CAT B - Report to MDL									
24D0735-17	Barium 6010 Total	CAT B - Report to MDL									
24D0735-17	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-17	Copper 6010 Total	CAT B - Report to MDL									
24D0735-17	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-17	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-17	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-17	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-17	Silver 6010 Total	CAT B - Report to MDL									
24D0735-17	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-04	Beryllium 6010 Total	CAT B - Report to MDL									
24D0735-04	Chromium 6010 Total	CAT B - Report to MDL									
24D0735-04	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-04	Copper 6010 Total	CAT B - Report to MDL									
24D0735-04	Cadmium 6010 Total	CAT B - Report to MDL									
24D0735-04	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-04	Iron 6010 Total	CAT B - Report to MDL									
24D0735-03	Calcium 6010 Total	CAT B - Report to MDL									
24D0735-03	Iron 6010 Total	CAT B - Report to MDL									
24D0735-03	Lead 6010 Total	CAT B - Report to MDL									
24D0735-03	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-03	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-03	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-03	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-04	Zinc 6010 Total	CAT B - Report to MDL									
24D0735-04	Thallium 6010 Total	CAT B - Report to MDL									
24D0735-04	Nickel 6010 Total	CAT B - Report to MDL									
24D0735-04	Potassium 6010 Total	CAT B - Report to MDL									
24D0735-04	Sodium 6010 Total	CAT B - Report to MDL									
24D0735-05	Aluminum 6010 Total	CAT B - Report to MDL									
24D0735-03	Cobalt 6010 Total	CAT B - Report to MDL									
24D0735-03	Copper 6010 Total	CAT B - Report to MDL									
24D0735-03	Magnesium 6010 Total	CAT B - Report to MDL									
24D0735-03	Manganese 6010 Total	CAT B - Report to MDL									
24D0735-03	Selenium 6010 Total	CAT B - Report to MDL									
24D0735-03	Silver 6010 Total	CAT B - Report to MDL									

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B371416

136

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-04	Lead 6010 Total	CAT B	-			Report to MDL						
24D0735-04	Vanadium 6010 Total	CAT B	-			Report to MDL						
24D0735-04	Magnesium 6010 Total	CAT B	-			Report to MDL						
24D0735-04	Manganese 6010 Total	CAT B	-			Report to MDL						
24D0735-04	Selenium 6010 Total	CAT B	-			Report to MDL						
24D0735-04	Silver 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Antimony 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Arsenic 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Chromium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Cobalt 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Barium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Beryllium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Copper 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Iron 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Lead 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Magnesium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Potassium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Selenium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Thallium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Vanadium 6010 Total	CAT B	-			Report to MDL						
24D0735-11	Sodium 6010 Total	CAT B	-			Report to MDL						
24D0735-11	Magnesium 6010 Total	CAT B	-			Report to MDL						
24D0735-12	Antimony 6010 Total	CAT B	-			Report to MDL						
24D0735-12	Arsenic 6010 Total	CAT B	-			Report to MDL						
24D0735-12	Chromium 6010 Total	CAT B	-			Report to MDL						
24D0735-12	Cobalt 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Cadmium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Calcium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Manganese 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Nickel 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Silver 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Sodium 6010 Total	CAT B	-			Report to MDL						
24D0735-05	Zinc 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Aluminum 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Antimony 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Arsenic 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Barium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Beryllium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Chromium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Cobalt 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Copper 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Iron 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Lead 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Cadmium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Calcium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Nickel 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Potassium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Magnesium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Manganese 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Selenium 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Silver 6010 Total	CAT B	-			Report to MDL						
24D0735-06	Sodium 6010 Total	CAT B	-			Report to MDL						

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B371416

137

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount uL		Comments	Priority
			DIGESTED	mL	g L				1	2		
24D0735-06	Thallium 6010 Total	CAT B	-	Report to MDL								
24D0735-06	Vanadium 6010 Total	CAT B	-	Report to MDL								
24D0735-06	Zinc 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Aluminum 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Antimony 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Arsenic 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Barium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Beryllium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Chromium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Cobalt 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Copper 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Iron 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Lead 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Cadmium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Calcium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Thallium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Vanadium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Nickel 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Potassium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Selenium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Silver 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Sodium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Magnesium 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Manganese 6010 Total	CAT B	-	Report to MDL								
24D0735-07	Zinc 6010 Total	CAT B	-	Report to MDL								
24D0735-08	Aluminum 6010 Total	CAT B	-	Report to MDL								
24D0735-08	Antimony 6010 Total	CAT B	-	Report to MDL								
24D0735-08	Arsenic 6010 Total	CAT B	-	Report to MDL								
24D0735-08	Barium 6010 Total	CAT B	-	Report to MDL								
24D0735-08	Beryllium 6010 Total	CAT B	-	Report to MDL								
24D0735-11	Vanadium 6010 Total	CAT B	-	Report to MDL								
24D0735-11	Zinc 6010 Total	CAT B	-	Report to MDL								
24D0735-11	Nickel 6010 Total	CAT B	-	Report to MDL								
24D0735-11	Potassium 6010 Total	CAT B	-	Report to MDL								
24D0735-11	Selenium 6010 Total	CAT B	-	Report to MDL								
24D0735-11	Silver 6010 Total	CAT B	-	Report to MDL								
24D0735-11	Manganese 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Aluminum 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Barium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Beryllium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Copper 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Iron 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Calcium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Thallium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Nickel 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Potassium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Sodium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Magnesium 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Antimony 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Arsenic 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Lead 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Cadmium 6010 Total	CAT B	-	Report to MDL								

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B371416

138

Prepared: 04/16/24 14:00

Printed: 4/22/2024 12:09:56PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-12	Vanadium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Zinc 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Selenium 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Silver 6010 Total	CAT B	-	Report to MDL								
24D0735-12	Manganese 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Aluminum 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Barium 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Beryllium 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Copper 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Iron 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Calcium 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Magnesium 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Chromium 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Cobalt 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Lead 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Cadmium 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Manganese 6010 Total	CAT B	-	Report to MDL								
24D0735-13	Nickel 6010 Total	CAT B	-	Report to MDL								

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

S103055

Instrument: ICP4

Calibration ID: 2400423

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103055-CAL1	QC		1		23J0970	24D0241	
S103055-CAL2	QC		2		23J0971	24D0241	
S103055-CAL3	QC		3		24D0039	24D0241	
S103055-CAL4	QC		4		24D0038	24D0241	
S103055-CAL5	QC		5		24D0037	24D0241	
S103055-CAL6	QC		6		24D0029	24D0241	
S103055-CAL7	QC		7		24D0035	24D0241	
S103055-CAL8	QC		8		23J0977	24D0241	
S103055-ICV1	QC		9		23K0257	24D0241	
S103055-ICB1	QC		10		23J0970	24D0241	
S103055-LCV1	QC		11		23J0971	24D0241	
S103055-LCV2	QC		12		23L0532	24D0241	
S103055-CCV1	QC		13		24D0029	24D0241	
S103055-IFA1	QC		14		24C0959	24D0241	
S103055-IFB1	QC		15		24D0240	24D0241	
S103055-HCV1	QC		16		24D0030	24D0241	
S103055-HCV2	QC		17		24C0960	24D0241	

Samples Loaded By

Date

Data Processed By

Date

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	128812.5
-1.6	15.0	167262.9
-1.2	15.0	211597.7
-0.8	15.0	252959.5
-0.4	15.0	288347.1
0.0	15.0	312693.9
0.4	15.0	308586.9
0.8	15.0	275747.1
1.2	15.0	224375.2
1.6	15.0	170946.7
0.0	10.0	10229.0
0.0	10.5	25569.6
0.0	11.0	38177.2
0.0	11.5	57124.9
0.0	12.0	79494.1
0.0	12.5	150009.3
0.0	13.0	197357.7
0.0	13.5	232622.5
0.0	14.0	273392.5
0.0	14.5	312615.2
0.0	15.0	309815.3
0.0	15.5	287359.0
0.0	16.0	259299.7
0.0	16.5	164102.8
0.0	17.0	122591.5
0.0	17.5	87733.0
0.0	18.0	60688.7
0.0	18.5	28358.3
0.0	19.0	18753.5
0.0	19.5	11236.5
-0.8	14.5	254511.0
-0.4	14.5	291216.8
0.0	14.5	312960.4
0.4	14.5	303799.3
0.0	12.5	153720.7
0.0	13.0	199120.5
0.0	13.5	233551.1
0.0	14.0	273976.7
0.0	14.5	311842.5
0.0	15.0	312123.0
0.0	15.5	291779.0
0.0	16.0	252516.0

4/11/2024 8:39:59 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 312123.0 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 312123.0 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-5.9	15.0	15398.3
-5.6	15.0	17011.2
-5.4	15.0	19453.3
-5.1	15.0	21274.5
-4.9	15.0	23359.6
-4.6	15.0	25865.3
-4.4	15.0	30123.3
-4.1	15.0	32646.8
-3.9	15.0	34543.8
-3.7	15.0	35221.3
-3.4	15.0	31991.9
-3.2	15.0	32264.1
-2.9	15.0	48790.9
-2.7	15.0	88481.2
-2.4	15.0	141611.4
-2.2	15.0	190308.7
-2.0	15.0	228512.9

-1.7	15.0	274397.4
-1.5	15.0	316868.4
-1.2	15.0	344054.6
-1.0	15.0	383924.6
-0.7	15.0	400987.4
-0.5	15.0	414168.9
-0.2	15.0	435951.7
0.0	15.0	440645.1
0.2	15.0	447008.4
0.5	15.0	441803.4
0.7	15.0	428869.0
1.0	15.0	423127.3
1.2	15.0	386196.4
1.5	15.0	357442.7
1.7	15.0	312652.4
2.0	15.0	268045.3
2.2	15.0	183417.8
2.4	15.0	90617.0
2.7	15.0	25014.6
2.9	15.0	11169.2
3.2	15.0	10427.8
3.4	15.0	10572.8
3.7	15.0	10555.3
3.9	15.0	10899.5
4.1	15.0	10855.8
4.4	15.0	11123.5
4.6	15.0	10677.2
4.9	15.0	10644.3
5.1	15.0	9785.4
5.4	15.0	8779.1
5.6	15.0	8400.4
5.9	15.0	8187.0

4/11/2024 8:48:25 AM aligned for analyte Mn 257.610

X viewing position set to 0.2 mm having Peak intensity 447008.4 for Radial viewing

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Method Loaded

Method Name: ICP4_012224

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2024 8:13:52 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-CAL1@BLANK 23IJ0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2024 8:57:00 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	227721.3	1531.27	0.67%	100	%
Y axial	1992055.2	24073.31	1.21%	100	%
Ag 328.068†	-29.0	12.35	42.61%	[0.00]	mg/L
Al 396.153†	-3.2	85.41	>999.9%	[0.00]	mg/L
As 188.979†	-5.4	6.16	114.44%	[0.00]	mg/L
B 208.889†	71.9	10.62	14.76%	[0.00]	mg/L
Ba 233.527†	4.2	4.65	110.05%	[0.00]	mg/L
Be 313.107†	723.5	8.86	1.22%	[0.00]	mg/L
Ca 317.933†	2019.5	17.18	0.85%	[0.00]	mg/L
Cd 228.802†	71.7	3.12	4.35%	[0.00]	mg/L
Co 228.616†	-50.9	3.17	6.23%	[0.00]	mg/L
Cr 267.716†	37.1	7.87	21.24%	[0.00]	mg/L
Cu 327.393†	72.7	49.33	67.85%	[0.00]	mg/L
Fe 238.204†	127.8	20.15	15.77%	[0.00]	mg/L
K 766.490†	-968.4	70.19	7.25%	[0.00]	mg/L
Mg 285.213†	-10.8	12.00	110.72%	[0.00]	mg/L
Mn 257.610†	-129.4	6.74	5.21%	[0.00]	mg/L
Mo 202.031†	-11.0	3.59	32.60%	[0.00]	mg/L
Na 589.592†	918.0	38.69	4.21%	[0.00]	mg/L
Ni 231.604†	-189.5	32.33	17.06%	[0.00]	mg/L
Pb 220.353†	65.2	5.45	8.37%	[0.00]	mg/L
Sb 206.836†	55.3	5.12	9.26%	[0.00]	mg/L
Se 196.026†	12.6	2.13	16.92%	[0.00]	mg/L
Sn 189.927†	10.2	6.24	61.35%	[0.00]	mg/L
Ti 337.279†	-354.4	8.10	2.29%	[0.00]	mg/L
Tl 351.924†	-27.2	33.51	123.14%	[0.00]	mg/L
V 290.880†	823.9	75.54	9.17%	[0.00]	mg/L
Zn 206.200†	130.1	8.63	6.63%	[0.00]	mg/L
Zr 343.823†	-59.7	60.93	102.06%	[0.00]	mg/L

User canceled analysis.

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-CAL1@BLANK 23IJ0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2024 9:03:04 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	228413.6	2247.83	0.98%	100	%
Y axial	1995974.8	18078.62	0.91%	100	%
Ag 328.068†	-40.6	39.93	98.36%	[0.00]	mg/L
Al 396.153†	6.5	20.31	312.55%	[0.00]	mg/L
As 188.979†	-5.6	6.63	119.00%	[0.00]	mg/L
B 208.889†	65.0	2.43	3.74%	[0.00]	mg/L
Ba 233.527†	-2.5	3.71	147.19%	[0.00]	mg/L
Be 313.107†	691.7	7.79	1.13%	[0.00]	mg/L
Ca 317.933†	2019.9	35.08	1.74%	[0.00]	mg/L

Cd 228.802†	69.1	6.14	8.89%	[0.00]	mg/L
Co 228.616†	-43.1	2.38	5.52%	[0.00]	mg/L
Cr 267.716†	41.4	12.85	31.07%	[0.00]	mg/L
Cu 327.393†	44.8	41.78	93.37%	[0.00]	mg/L
Fe 238.204†	121.4	3.25	2.68%	[0.00]	mg/L
K 766.490†	-1080.9	116.63	10.79%	[0.00]	mg/L
Mg 285.213†	-2.6	11.38	430.30%	[0.00]	mg/L
Mn 257.610†	-125.9	1.93	1.53%	[0.00]	mg/L
Mo 202.031†	-22.3	7.78	34.86%	[0.00]	mg/L
Na 589.592†	885.5	81.94	9.25%	[0.00]	mg/L
Ni 231.604†	-195.7	8.98	4.59%	[0.00]	mg/L
Pb 220.353†	72.0	5.39	7.49%	[0.00]	mg/L
Sb 206.836†	47.9	4.36	9.10%	[0.00]	mg/L
Se 196.026†	8.2	5.82	71.19%	[0.00]	mg/L
Sn 189.927†	10.3	3.02	29.29%	[0.00]	mg/L
Ti 337.279†	-348.8	34.38	9.86%	[0.00]	mg/L
Tl 351.924†	-1.0	40.25	>999.9%	[0.00]	mg/L
V 290.880†	766.8	38.35	5.00%	[0.00]	mg/L
Zn 206.200†	114.9	15.55	13.54%	[0.00]	mg/L
Zr 343.823†	-41.8	80.97	193.64%	[0.00]	mg/L

Batch ID: AVIO 500

Sequence No.: 2

Sample ID: SEQ-CAL2@ 23J0971

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 2

Date Collected: 4/11/2024 9:09:06 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL2@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Y radial	224341.7	3038.20	1.35%	98.5	%
Y axial	1950405.9	29457.79	1.51%	97.9	%
Ag 328.068†	350.1	18.06	5.16%	[0.01]	mg/L
Al 396.153†	214.2	10.44	4.88%	[0.05]	mg/L
As 188.979†	20.2	5.15	25.47%	[0.01]	mg/L
B 208.889†	623.6	17.40	2.79%	[0.1]	mg/L
Ba 233.527†	587.4	19.01	3.24%	[0.05]	mg/L
Be 313.107†	2581.8	98.84	3.83%	[0.004]	mg/L
Ca 317.933†	6806.3	150.81	2.22%	[0.5]	mg/L
Cd 228.802†	116.7	5.91	5.06%	[0.004]	mg/L
Co 228.616†	231.4	10.77	4.66%	[0.01]	mg/L
Cr 267.716†	508.5	12.94	2.54%	[0.01]	mg/L
Cu 327.393†	477.8	49.06	10.27%	[0.01]	mg/L
Fe 238.204†	415.3	19.60	4.72%	[0.05]	mg/L
Mg 285.213†	689.0	11.54	1.68%	[0.05]	mg/L
Mn 257.610†	434.8	2.94	0.68%	[0.01]	mg/L
Mo 202.031†	890.6	17.17	1.93%	[0.05]	mg/L
Ni 231.604†	375.9	15.49	4.12%	[0.01]	mg/L
Pb 220.353†	67.1	10.37	15.45%	[0.01]	mg/L
Sb 206.836†	111.7	11.07	9.91%	[0.05]	mg/L
Se 196.026†	92.2	4.30	4.66%	[0.05]	mg/L
Sn 189.927†	634.0	15.23	2.40%	[0.1]	mg/L
Ti 337.279†	708.0	17.52	2.48%	[0.02]	mg/L
Tl 351.924†	119.6	33.56	28.06%	[0.05]	mg/L
V 290.880†	805.3	37.00	4.59%	[0.01]	mg/L
Zn 206.200†	594.2	6.92	1.16%	[0.01]	mg/L

Batch ID: AVIO 500

Sequence No.: 3

Sample ID: SEQ-CAL3@ 23J0972

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 3

Date Collected: 4/11/2024 9:16:48 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL3@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	225083.1	2129.20	0.95%	98.8	%
Y axial	1951606.9	28635.86	1.47%	98.0	%
Ag 328.068†	2355.7	39.73	1.69%	[0.0625]	mg/L
Al 396.153†	1121.2	16.18	1.44%	[0.25]	mg/L
As 188.979†	203.1	3.50	1.72%	[0.125]	mg/L
B 208.889†	788.2	19.47	2.47%	[0.125]	mg/L
Ba 233.527†	1499.9	31.15	2.08%	[0.125]	mg/L
Be 313.107†	76952.4	244.12	0.32%	[0.125]	mg/L
Cd 228.802†	3234.0	63.28	1.96%	[0.125]	mg/L
Co 228.616†	2978.2	54.28	1.82%	[0.125]	mg/L
Cr 267.716†	6389.5	156.37	2.45%	[0.125]	mg/L
Cu 327.393†	7041.7	201.44	2.86%	[0.125]	mg/L
Fe 238.204†	1078.8	24.42	2.26%	[0.125]	mg/L
Mg 285.213†	3587.7	55.28	1.54%	[0.25]	mg/L
Mn 257.610†	5584.3	52.05	0.93%	[0.125]	mg/L
Mo 202.031†	2199.6	33.04	1.50%	[0.125]	mg/L
Ni 231.604†	4977.2	137.09	2.75%	[0.125]	mg/L
Pb 220.353†	839.8	23.62	2.81%	[0.125]	mg/L
Sb 206.836†	318.2	0.71	0.22%	[0.125]	mg/L
Se 196.026†	224.3	10.64	4.74%	[0.125]	mg/L
Sn 189.927†	859.3	16.91	1.97%	[0.125]	mg/L
Ti 337.279†	4438.6	43.54	0.98%	[0.125]	mg/L
Tl 351.924†	88.8	12.04	13.55%	[0.0625]	mg/L
Standard intensity and concentration values are not in the same order.					
V 290.880†	9218.5	210.85	2.29%	[0.125]	mg/L
Zn 206.200†	6868.7	130.99	1.91%	[0.125]	mg/L
Zr 343.823†	18455.3	400.47	2.17%	[0.125]	mg/L

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Batch ID: AVIO 500

Sequence No.: 4

Sample ID: SEQ-CAL4@ 23J0973

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 4

Date Collected: 4/11/2024 9:24:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL4@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	226659.3	1277.75	0.56%	99.5	%
Y axial	1972038.7	15695.30	0.80%	99.0	%
Ag 328.068†	9406.1	64.17	0.68%	[0.25]	mg/L
Al 396.153†	4470.8	41.39	0.93%	[1]	mg/L
As 188.979†	788.4	2.96	0.38%	[0.5]	mg/L
B 208.889†	3176.7	26.47	0.83%	[0.5]	mg/L
Ba 233.527†	5855.3	55.89	0.95%	[0.5]	mg/L
Be 313.107†	304851.2	1206.34	0.40%	[0.5]	mg/L
Ca 317.933†	13964.9	90.68	0.65%	[1]	mg/L
Cd 228.802†	12796.3	86.46	0.68%	[0.5]	mg/L
Co 228.616†	11992.2	65.47	0.55%	[0.5]	mg/L
Cr 267.716†	24984.5	207.41	0.83%	[0.5]	mg/L
Cu 327.393†	28684.4	295.42	1.03%	[0.5]	mg/L
Fe 238.204†	4140.1	37.07	0.90%	[0.5]	mg/L
Mg 285.213†	13971.2	28.70	0.21%	[1]	mg/L
Mn 257.610†	21811.8	119.69	0.55%	[0.5]	mg/L
Mo 202.031†	8628.7	62.09	0.72%	[0.5]	mg/L
Ni 231.604†	19913.0	99.45	0.50%	[0.5]	mg/L
Pb 220.353†	3347.9	20.75	0.62%	[0.5]	mg/L
Sb 206.836†	1266.5	9.92	0.78%	[0.5]	mg/L
Se 196.026†	903.8	7.31	0.81%	[0.5]	mg/L
Sn 189.927†	3383.1	19.79	0.58%	[0.5]	mg/L
Ti 337.279†	17450.6	101.05	0.58%	[0.5]	mg/L
Tl 351.924†	456.2	14.93	3.27%	[0.25]	mg/L
Standard intensity and concentration values are not in the same order.					

V 290.880†	36111.0	221.38	0.61%	[0.5] mg/L
Zn 206.200†	27949.0	274.78	0.98%	[0.5] mg/L
Zr 343.823†	72370.5	476.54	0.66%	[0.5] mg/L

Batch ID: AVIO 500

Sequence No.: 5

Sample ID: SEQ-CAL5@ 23J0974

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 5

Date Collected: 4/11/2024 9:31:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL5@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	221724.9	911.02	0.41%	97.4 %
Y axial	1926609.8	6454.01	0.33%	96.7 %
Ag 328.068†	18289.1	366.20	2.00%	[0.5] mg/L
Al 396.153†	8102.8	27.02	0.33%	[2] mg/L
As 188.979†	1595.9	5.47	0.34%	[1] mg/L
B 208.889†	6513.3	45.57	0.70%	[1] mg/L
Ba 233.527†	11850.3	62.01	0.52%	[1] mg/L
Be 313.107†	616631.3	3579.10	0.58%	[1] mg/L
Ca 317.933†	25378.1	139.79	0.55%	[2] mg/L
Cd 228.802†	25818.4	298.51	1.16%	[1] mg/L
Co 228.616†	23950.5	212.79	0.89%	[1] mg/L
Cr 267.716†	50072.5	530.01	1.06%	[1] mg/L
Cu 327.393†	57596.5	582.10	1.01%	[1] mg/L
Fe 238.204†	7645.3	68.79	0.90%	[1] mg/L
K 766.490†	8324.6	44.98	0.54%	[2] mg/L
Mg 285.213†	25428.0	144.69	0.57%	[2] mg/L
Mn 257.610†	43912.5	226.14	0.51%	[1] mg/L
Mo 202.031†	17420.7	229.78	1.32%	[1] mg/L
Na 589.592†	18983.1	128.44	0.68%	[2] mg/L
Ni 231.604†	39697.8	434.98	1.10%	[1] mg/L
Pb 220.353†	6614.9	44.95	0.68%	[1] mg/L
Sb 206.836†	2564.8	19.00	0.74%	[1] mg/L
Se 196.026†	1801.4	17.24	0.96%	[1] mg/L
Sn 189.927†	6847.6	43.45	0.63%	[1] mg/L
Ti 337.279†	35256.5	98.18	0.28%	[1] mg/L
Tl 351.924†	926.5	27.97	3.02%	[0.5] mg/L

Standard intensity and concentration values are not in the same order.

V 290.880†	72624.3	693.69	0.96%	[1] mg/L
Zn 206.200†	55808.8	701.83	1.26%	[1] mg/L
Zr 343.823†	148508.2	1334.73	0.90%	[1] mg/L

Batch ID: AVIO 500

Sequence No.: 6

Sample ID: SEQ-CAL6@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 6

Date Collected: 4/11/2024 9:38:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL6@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	222544.0	1257.96	0.57%	97.7 %
Y axial	1924583.8	15760.95	0.82%	96.6 %
Ag 328.068†	81835.3	1223.28	1.49%	[2.5] mg/L
Al 396.153†	41686.0	111.42	0.27%	[10] mg/L
As 188.979†	7622.0	101.81	1.34%	[5] mg/L
B 208.889†	31035.9	481.59	1.55%	[5] mg/L
Ba 233.527†	56092.1	717.88	1.28%	[5] mg/L
Be 313.107†	2888181.0	47661.72	1.65%	[5] mg/L
Ca 317.933†	130417.0	443.34	0.34%	[10] mg/L

Cd 228.802†	122766.6	361.93	0.29%	[5] mg/L
Co 228.616†	112437.8	202.81	0.18%	[5] mg/L
Cr 267.716†	237101.7	439.17	0.19%	[5] mg/L
Cu 327.393†	270097.6	838.76	0.31%	[5] mg/L
Fe 238.204†	38394.6	71.95	0.19%	[5] mg/L
K 766.490†	49869.2	142.64	0.29%	[10] mg/L
Mg 285.213†	127793.8	325.71	0.25%	[10] mg/L
Mn 257.610†	203722.1	515.88	0.25%	[5] mg/L
Mo 202.031†	82588.5	287.01	0.35%	[5] mg/L
Na 589.592†	97013.5	263.42	0.27%	[10] mg/L
Ni 231.604†	185615.0	487.72	0.26%	[5] mg/L
Pb 220.353†	30736.4	479.42	1.56%	[5] mg/L
Sb 206.836†	12152.1	163.97	1.35%	[5] mg/L
Se 196.026†	8643.1	111.27	1.29%	[5] mg/L
Sn 189.927†	31972.2	491.28	1.54%	[5] mg/L
Ti 337.279†	167229.3	353.72	0.21%	[5] mg/L
Tl 351.924†	4348.7	74.37	1.71%	[2.5] mg/L
Standard intensity and concentration values are not in the same order.				
V 290.880†	348011.5	960.68	0.28%	[5] mg/L
Zn 206.200†	266839.7	755.40	0.28%	[5] mg/L
Zr 343.823†	696548.0	1910.15	0.27%	[5] mg/L

Batch ID: AVIO 500

Sequence No.: 7

Sample ID: SEQ-CAL7@ 23J0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 7

Date Collected: 4/11/2024 9:44:01 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL7@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	203394.7	220.19	0.11%	89.3 %
Y axial	1747650.5	29472.11	1.69%	87.7 %
Ag 328.068†	163166.6	5023.79	3.08%	[5] mg/L
Al 396.153†	86545.4	262.68	0.30%	[20] mg/L
As 188.979†	15751.8	325.92	2.07%	[10] mg/L
B 208.889†	63665.4	1130.63	1.78%	[10] mg/L
Ba 233.527†	114516.3	1660.34	1.45%	[10] mg/L
Be 313.107†	5889983.6	76595.78	1.30%	[10] mg/L
Ca 317.933†	266317.2	849.29	0.32%	[20] mg/L
Cd 228.802†	250442.7	698.00	0.28%	[10] mg/L
Co 228.616†	226030.6	529.33	0.23%	[10] mg/L
Cr 267.716†	480498.4	1033.42	0.22%	[10] mg/L
Cu 327.393†	550982.1	1664.21	0.30%	[10] mg/L
Fe 238.204†	77986.7	203.39	0.26%	[10] mg/L
K 766.490†	110318.1	148.46	0.13%	[20] mg/L
Mg 285.213†	261053.9	625.53	0.24%	[20] mg/L
Mn 257.610†	412196.4	937.35	0.23%	[10] mg/L
Mo 202.031†	168777.4	472.65	0.28%	[10] mg/L
Na 589.592†	201236.6	535.69	0.27%	[20] mg/L
Ni 231.604†	373358.5	1181.50	0.32%	[10] mg/L
Pb 220.353†	61598.4	60.29	0.10%	[10] mg/L
Sb 206.836†	25034.3	506.61	2.02%	[10] mg/L
Se 196.026†	17617.0	296.82	1.68%	[10] mg/L
Sn 189.927†	65005.0	1305.05	2.01%	[10] mg/L
Ti 337.279†	344775.3	1099.63	0.32%	[10] mg/L
Tl 351.924†	8526.8	85.14	1.00%	[5] mg/L
Standard intensity and concentration values are not in the same order.				
V 290.880†	712691.7	1503.51	0.21%	[10] mg/L
Zn 206.200†	534406.5	2046.98	0.38%	[10] mg/L
Zr 343.823†	1442268.8	3578.01	0.25%	[10] mg/L

Batch ID: AVIO 500

Sequence No.: 8

Sample ID: SEQ-CAL8@ 23J0977

Autosampler Location: 8

Date Collected: 4/11/2024 9:50:08 AM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CAL8@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y radial	191957.7	2671.03	1.39%	84.3 %
Y axial	1688171.6	10917.57	0.65%	84.7 %
Al 396.153†	214063.2	141.54	0.07%	[50] mg/L
Ca 317.933†	674825.9	1443.90	0.21%	[50] mg/L
Fe 238.204†	201555.5	126.51	0.06%	[25] mg/L
K 766.490†	282303.4	744.55	0.26%	[50] mg/L
Mg 285.213†	667549.0	770.99	0.12%	[50] mg/L
Na 589.592†	513702.6	669.09	0.13%	[50] mg/L

CALIBRATION
PASSED >0.998
NDC 04/12/2024

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	32700	0.00000	0.999919	
Al 396.153	7	Lin Thru 0	0.0	4283	0.00000	0.999979	
As 188.979	6	Lin Thru 0	0.0	1565	0.00000	0.999915	
B 208.889	6	Lin Thru 0	0.0	6336	0.00000	0.999947	
Ba 233.527	6	Lin Thru 0	0.0	11410	0.00000	0.999960	
Be 313.107	6	Lin Thru 0	0.0	587000	0.00000	0.999959	
Ca 317.933	6	Lin Thru 0	0.0	13460	0.00000	0.999971	
Cd 228.802	6	Lin Thru 0	0.0	24950	0.00000	0.999964	
Co 228.616	6	Lin Thru 0	0.0	22590	0.00000	0.999980	
Cr 267.716	6	Lin Thru 0	0.0	47950	0.00000	0.999976	
Cu 327.393	6	Lin Thru 0	0.0	54910	0.00000	0.999958	
Fe 238.204	7	Lin Thru 0	0.0	8014	0.00000	0.999906	
K 766.490	4	Lin Thru 0	0.0	5605	0.00000	0.999714	
Mg 285.213	7	Lin Thru 0	0.0	13290	0.00000	0.999944	
Mn 257.610	6	Lin Thru 0	0.0	41150	0.00000	0.999967	
Mo 202.031	6	Lin Thru 0	0.0	16810	0.00000	0.999958	
Na 589.592	4	Lin Thru 0	0.0	10230	0.00000	0.999926	
Ni 231.604	6	Lin Thru 0	0.0	37320	0.00000	0.999976	
Pb 220.353	6	Lin Thru 0	0.0	6162	0.00000	0.999970	
Sb 206.836	6	Lin Thru 0	0.0	2490	0.00000	0.999928	
Se 196.026	6	Lin Thru 0	0.0	1756	0.00000	0.999968	
Sn 189.927	6	Lin Thru 0	0.0	6483	0.00000	0.999964	
Ti 337.279	6	Lin Thru 0	0.0	34280	0.00000	0.999925	
Tl 351.924	6	Lin Thru 0	0.0	1714	0.00000	0.999930	
V 290.880	6	Lin Thru 0	0.0	70950	0.00000	0.999954	
Zn 206.200	6	Lin Thru 0	0.0	53450	0.00000	0.999990	
Zr 343.823	5	Lin Thru 0	0.0	143300	0.00000	0.999901	

Calibration data for Ag 328.068

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	39.93	98.36	N/A
SEQ-CAL2@ 23J0971	350.1	0.01	0.0107	18.06	5.16	7.08%
SEQ-CAL3@ 23J0972	2355.7	0.0625	0.0721	39.73	1.69	15.28%
SEQ-CAL4@ 23J0973	9406.1	0.25	0.2877	64.17	0.68	15.08%
SEQ-CAL5@ 23J0974	18289.1	0.5	0.5594	366.20	2.00	11.88%
SEQ-CAL6@ 23J0975	81835.3	2.5	2.503	1223.28	1.49	0.12%
SEQ-CAL7@ 23J0976	163166.6	5.0	4.991	5023.79	3.08	-0.19%
Correlation Coef.: 0.999919		Slope: 32700		Intercept: 0.0		

Calibration data for Al 396.153

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	20.31	312.55	N/A

SEQ-CAL2@ 23J0971	214.2	0.05	0.0500	10.44	4.88	0.01%
SEQ-CAL3@ 23J0972	1121.2	0.25	0.2617	16.18	1.44	4.70%
SEQ-CAL4@ 23J0973	4470.8	1.0	1.044	41.39	0.93	4.37%
SEQ-CAL5@ 23J0974	8102.8	2.0	1.892	27.02	0.33	-5.42%
SEQ-CAL6@ 23J0975	41686.0	10.0	9.732	111.42	0.27	-2.68%
SEQ-CAL7@ 23J0976	86545.4	20.0	20.20	262.68	0.30	1.02%
SEQ-CAL8@ 23J0977	214063.2	50.0	49.98	141.54	0.07	-0.05%
Correlation Coef.: 0.999979 Slope: 4283 Intercept: 0.0						

Calibration data for As 188.979

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	6.63	119.00	N/A
SEQ-CAL2@ 23J0971	20.2	0.01	0.0129	5.15	25.47	29.26%
SEQ-CAL3@ 23J0972	203.1	0.125	0.1297	3.50	1.72	3.79%
SEQ-CAL4@ 23J0973	788.4	0.5	0.5037	2.96	0.38	0.74%
SEQ-CAL5@ 23J0974	1595.9	1.0	1.020	5.47	0.34	1.96%
SEQ-CAL6@ 23J0975	7622.0	5.0	4.869	101.81	1.34	-2.61%
SEQ-CAL7@ 23J0976	15751.8	10.0	10.06	325.92	2.07	0.63%
Correlation Coef.: 0.999915 Slope: 1565 Intercept: 0.0						

Calibration data for B 208.889

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.43	3.74	N/A
SEQ-CAL2@ 23J0971	623.6	0.1	0.0984	17.40	2.79	-1.57%
SEQ-CAL3@ 23J0972	788.2	0.125	0.1244	19.47	2.47	-0.48%
SEQ-CAL4@ 23J0973	3176.7	0.5	0.5014	26.47	0.83	0.27%
SEQ-CAL5@ 23J0974	6513.3	1.0	1.028	45.57	0.70	2.80%
SEQ-CAL6@ 23J0975	31035.9	5.0	4.898	481.59	1.55	-2.03%
SEQ-CAL7@ 23J0976	63665.4	10.0	10.05	1130.63	1.78	0.48%
Correlation Coef.: 0.999947 Slope: 6336 Intercept: 0.0						

Calibration data for Ba 233.527

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.71	147.19	N/A
SEQ-CAL2@ 23J0971	587.4	0.05	0.0515	19.01	3.24	2.98%
SEQ-CAL3@ 23J0972	1499.9	0.125	0.1315	31.15	2.08	5.17%
SEQ-CAL4@ 23J0973	5855.3	0.5	0.5132	55.89	0.95	2.64%
SEQ-CAL5@ 23J0974	11850.3	1.0	1.039	62.01	0.52	3.87%
SEQ-CAL6@ 23J0975	56092.1	5.0	4.916	717.88	1.28	-1.67%
SEQ-CAL7@ 23J0976	114516.3	10.0	10.04	1660.34	1.45	0.37%
Correlation Coef.: 0.999960 Slope: 11410 Intercept: 0.0						

Calibration data for Be 313.107

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	7.79	1.13	N/A
SEQ-CAL2@ 23J0971	2581.8	0.004	0.0044	98.84	3.83	9.95%
SEQ-CAL3@ 23J0972	76952.4	0.125	0.1311	244.12	0.32	4.87%
SEQ-CAL4@ 23J0973	304851.2	0.5	0.5193	1206.34	0.40	3.87%
SEQ-CAL5@ 23J0974	616631.3	1.0	1.050	3579.10	0.58	5.05%
SEQ-CAL6@ 23J0975	2888181.0	5.0	4.920	47661.72	1.65	-1.60%
SEQ-CAL7@ 23J0976	5889983.6	10.0	10.03	76595.78	1.30	0.34%
Correlation Coef.: 0.999959 Slope: 587000 Intercept: 0.0						

Calibration data for Ca 317.933

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	35.08	1.74	N/A
SEQ-CAL2@ 23J0971	6806.3	0.5	0.5058	150.81	2.22	1.16%
SEQ-CAL4@ 23J0973	13964.9	1.0	1.038	90.68	0.65	3.78%
SEQ-CAL5@ 23J0974	25378.1	2.0	1.886	139.79	0.55	-5.70%
SEQ-CAL6@ 23J0975	130417.0	10.0	9.692	443.34	0.34	-3.08%
SEQ-CAL7@ 23J0976	266317.2	20.0	19.79	849.29	0.32	-1.04%
SEQ-CAL8@ 23J0977	674825.9	50.0	50.15	1443.90	0.21	0.30%
Correlation Coef.: 0.999971 Slope: 13460 Intercept: 0.0						

Calibration data for Cd 228.802

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	6.14	8.89	N/A
SEQ-CAL2@ 23J0971	116.7	0.004	0.0047	5.91	5.06	16.88%
SEQ-CAL3@ 23J0972	3234.0	0.125	0.1296	63.28	1.96	3.68%
SEQ-CAL4@ 23J0973	12796.3	0.5	0.5128	86.46	0.68	2.56%
SEQ-CAL5@ 23J0974	25818.4	1.0	1.035	298.51	1.16	3.46%
SEQ-CAL6@ 23J0975	122766.6	5.0	4.920	361.93	0.29	-1.61%
SEQ-CAL7@ 23J0976	250442.7	10.0	10.04	698.00	0.28	0.36%
Correlation Coef.: 0.999964 Slope: 24950 Intercept: 0.0						

Calibration data for Co 228.616

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.38	5.52	N/A
SEQ-CAL2@ 23J0971	231.4	0.01	0.0102	10.77	4.66	2.42%
SEQ-CAL3@ 23J0972	2978.2	0.125	0.1318	54.28	1.82	5.45%
SEQ-CAL4@ 23J0973	11992.2	0.5	0.5308	65.47	0.55	6.15%
SEQ-CAL5@ 23J0974	23950.5	1.0	1.060	212.79	0.89	6.00%
SEQ-CAL6@ 23J0975	112437.8	5.0	4.976	202.81	0.18	-0.47%
SEQ-CAL7@ 23J0976	226030.6	10.0	10.00	529.33	0.23	0.04%
Correlation Coef.: 0.999980 Slope: 22590 Intercept: 0.0						

Calibration data for Cr 267.716

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	12.85	31.07	N/A
SEQ-CAL2@ 23J0971	508.5	0.01	0.0106	12.94	2.54	6.06%
SEQ-CAL3@ 23J0972	6389.5	0.125	0.1333	156.37	2.45	6.61%
SEQ-CAL4@ 23J0973	24984.5	0.5	0.5211	207.41	0.83	4.22%
SEQ-CAL5@ 23J0974	50072.5	1.0	1.044	530.01	1.06	4.44%
SEQ-CAL6@ 23J0975	237101.7	5.0	4.945	439.17	0.19	-1.10%
SEQ-CAL7@ 23J0976	480498.4	10.0	10.02	1033.42	0.22	0.22%
Correlation Coef.: 0.999976 Slope: 47950 Intercept: 0.0						

Calibration data for Cu 327.393

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	41.78	93.37	N/A
SEQ-CAL2@ 23J0971	477.8	0.01	0.0087	49.06	10.27	-12.98%
SEQ-CAL3@ 23J0972	7041.7	0.125	0.1282	201.44	2.86	2.59%
SEQ-CAL4@ 23J0973	28684.4	0.5	0.5224	295.42	1.03	4.48%
SEQ-CAL5@ 23J0974	57596.5	1.0	1.049	582.10	1.01	4.89%
SEQ-CAL6@ 23J0975	270097.6	5.0	4.919	838.76	0.31	-1.62%
SEQ-CAL7@ 23J0976	550982.1	10.0	10.03	1664.21	0.30	0.34%
Correlation Coef.: 0.999958 Slope: 54910 Intercept: 0.0						

Calibration data for Fe 238.204

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.25	2.68	N/A
SEQ-CAL2@ 23J0971	415.3	0.05	0.0518	19.60	4.72	3.65%
SEQ-CAL3@ 23J0972	1078.8	0.125	0.1346	24.42	2.26	7.69%
SEQ-CAL4@ 23J0973	4140.1	0.5	0.5166	37.07	0.90	3.32%
SEQ-CAL5@ 23J0974	7645.3	1.0	0.9540	68.79	0.90	-4.60%
SEQ-CAL6@ 23J0975	38394.6	5.0	4.791	71.95	0.19	-4.18%
SEQ-CAL7@ 23J0976	77986.7	10.0	9.731	203.39	0.26	-2.69%
SEQ-CAL8@ 23J0977	201555.5	25.0	25.15	126.51	0.06	0.60%
Correlation Coef.: 0.999906 Slope: 8014 Intercept: 0.0						

Calibration data for K 766.490

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	116.63	10.79	N/A
SEQ-CAL5@ 23J0974	8324.6	2.0	1.485	44.98	0.54	-25.74%
SEQ-CAL6@ 23J0975	49869.2	10.0	8.898	142.64	0.29	-11.02%
SEQ-CAL7@ 23J0976	110318.1	20.0	19.68	148.46	0.13	-1.59%
SEQ-CAL8@ 23J0977	282303.4	50.0	50.37	744.55	0.26	0.74%
Correlation Coef.: 0.999714 Slope: 5605 Intercept: 0.0						

Calibration data for Mg 285.213

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	11.38	430.30	N/A
SEQ-CAL2@ 23J0971	689.0	0.05	0.0518	11.54	1.68	3.68%
SEQ-CAL3@ 23J0972	3587.7	0.25	0.2699	55.28	1.54	7.97%
SEQ-CAL4@ 23J0973	13971.2	1.0	1.051	28.70	0.21	5.11%
SEQ-CAL5@ 23J0974	25428.0	2.0	1.913	144.69	0.57	-4.35%
SEQ-CAL6@ 23J0975	127793.8	10.0	9.615	325.71	0.25	-3.85%
SEQ-CAL7@ 23J0976	261053.9	20.0	19.64	625.53	0.24	-1.80%
SEQ-CAL8@ 23J0977	667549.0	50.0	50.22	770.99	0.12	0.45%
Correlation Coef.: 0.999944 Slope: 13290 Intercept: 0.0						

Calibration data for Mn 257.610

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.93	1.53	N/A
SEQ-CAL2@ 23J0971	434.8	0.01	0.0106	2.94	0.68	5.65%
SEQ-CAL3@ 23J0972	5584.3	0.125	0.1357	52.05	0.93	8.56%
SEQ-CAL4@ 23J0973	21811.8	0.5	0.5300	119.69	0.55	6.01%
SEQ-CAL5@ 23J0974	43912.5	1.0	1.067	226.14	0.51	6.71%
SEQ-CAL6@ 23J0975	203722.1	5.0	4.950	515.88	0.25	-0.99%
SEQ-CAL7@ 23J0976	412196.4	10.0	10.02	937.35	0.23	0.16%
Correlation Coef.: 0.999967 Slope: 41150 Intercept: 0.0						

Calibration data for Mo 202.031

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	7.78	34.86	N/A
SEQ-CAL2@ 23J0971	890.6	0.05	0.0530	17.17	1.93	5.95%
SEQ-CAL3@ 23J0972	2199.6	0.125	0.1308	33.04	1.50	4.67%
SEQ-CAL4@ 23J0973	8628.7	0.5	0.5133	62.09	0.72	2.65%
SEQ-CAL5@ 23J0974	17420.7	1.0	1.036	229.78	1.32	3.62%
SEQ-CAL6@ 23J0975	82588.5	5.0	4.913	287.01	0.35	-1.75%
SEQ-CAL7@ 23J0976	168777.4	10.0	10.04	472.65	0.28	0.39%
Correlation Coef.: 0.999958 Slope: 16810 Intercept: 0.0						

Calibration data for Na 589.592

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	81.94	9.25	N/A
SEQ-CAL5@ 23J0974	18983.1	2.0	1.856	128.44	0.68	-7.18%
SEQ-CAL6@ 23J0975	97013.5	10.0	9.487	263.42	0.27	-5.13%
SEQ-CAL7@ 23J0976	201236.6	20.0	19.68	535.69	0.27	-1.60%
SEQ-CAL8@ 23J0977	513702.6	50.0	50.24	669.09	0.13	0.47%
Correlation Coef.: 0.999926 Slope: 10230 Intercept: 0.0						

Calibration data for Ni 231.604

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	8.98	4.59	N/A
SEQ-CAL2@ 23J0971	375.9	0.01	0.0101	15.49	4.12	0.72%
SEQ-CAL3@ 23J0972	4977.2	0.125	0.1334	137.09	2.75	6.70%
SEQ-CAL4@ 23J0973	19913.0	0.5	0.5336	99.45	0.50	6.72%
SEQ-CAL5@ 23J0974	39697.8	1.0	1.064	434.98	1.10	6.38%
SEQ-CAL6@ 23J0975	185615.0	5.0	4.974	487.72	0.26	-0.52%
SEQ-CAL7@ 23J0976	373358.5	10.0	10.00	1181.50	0.32	0.05%
Correlation Coef.: 0.999976 Slope: 37320 Intercept: 0.0						

Calibration data for Pb 220.353

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.39	7.49	N/A
SEQ-CAL2@ 23J0971	67.1	0.01	0.0109	10.37	15.45	8.87%
SEQ-CAL3@ 23J0972	839.8	0.125	0.1363	23.62	2.81	9.03%
SEQ-CAL4@ 23J0973	3347.9	0.5	0.5433	20.75	0.62	8.66%
SEQ-CAL5@ 23J0974	6614.9	1.0	1.073	44.95	0.68	7.35%
SEQ-CAL6@ 23J0975	30736.4	5.0	4.988	479.42	1.56	-0.24%
SEQ-CAL7@ 23J0976	61598.4	10.0	9.996	60.29	0.10	-0.04%
Correlation Coef.: 0.999970 Slope: 6162 Intercept: 0.0						

Calibration data for Sb 206.836

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	4.36	9.10	N/A
SEQ-CAL2@ 23J0971	111.7	0.05	0.0449	11.07	9.91	-10.24%
SEQ-CAL3@ 23J0972	318.2	0.125	0.1278	0.71	0.22	2.27%
SEQ-CAL4@ 23J0973	1266.5	0.5	0.5087	9.92	0.78	1.75%
SEQ-CAL5@ 23J0974	2564.8	1.0	1.030	19.00	0.74	3.02%
SEQ-CAL6@ 23J0975	12152.1	5.0	4.881	163.97	1.35	-2.37%
SEQ-CAL7@ 23J0976	25034.3	10.0	10.06	506.61	2.02	0.56%
Correlation Coef.: 0.999928 Slope: 2490 Intercept: 0.0						

Calibration data for Se 196.026

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.82	71.19	N/A
SEQ-CAL2@ 23J0971	92.2	0.05	0.0525	4.30	4.66	5.07%
SEQ-CAL3@ 23J0972	224.3	0.125	0.1278	10.64	4.74	2.23%
SEQ-CAL4@ 23J0973	903.8	0.5	0.5148	7.31	0.81	2.96%
SEQ-CAL5@ 23J0974	1801.4	1.0	1.026	17.24	0.96	2.61%
SEQ-CAL6@ 23J0975	8643.1	5.0	4.923	111.27	1.29	-1.54%
SEQ-CAL7@ 23J0976	17617.0	10.0	10.03	296.82	1.68	0.35%
Correlation Coef.: 0.999968 Slope: 1756 Intercept: 0.0						

Calibration data for Sn 189.927

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.02	29.29	N/A
SEQ-CAL2@ 23J0971	634.0	0.1	0.0978	15.23	2.40	-2.21%

Seq	Cal	ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL3@	23J0972		859.3	0.125	0.1326	16.91	1.97	6.05%
SEQ-CAL4@	23J0973		3383.1	0.5	0.5219	19.79	0.58	4.37%
SEQ-CAL5@	23J0974		6847.6	1.0	1.056	43.45	0.63	5.63%
SEQ-CAL6@	23J0975		31972.2	5.0	4.932	491.28	1.54	-1.36%
SEQ-CAL7@	23J0976		65005.0	10.0	10.03	1305.05	2.01	0.27%

Correlation Coef.: 0.999964 Slope: 6483 Intercept: 0.0

Calibration data for Ti 337.279

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	34.38	9.86	N/A
SEQ-CAL2@ 23J0971	708.0	0.02	0.0207	17.52	2.48	3.26%
SEQ-CAL3@ 23J0972	4438.6	0.125	0.1295	43.54	0.98	3.58%
SEQ-CAL4@ 23J0973	17450.6	0.5	0.5091	101.05	0.58	1.81%
SEQ-CAL5@ 23J0974	35256.5	1.0	1.028	98.18	0.28	2.85%
SEQ-CAL6@ 23J0975	167229.3	5.0	4.878	353.72	0.21	-2.43%
SEQ-CAL7@ 23J0976	344775.3	10.0	10.06	1099.63	0.32	0.58%

Correlation Coef.: 0.999925 Slope: 34280 Intercept: 0.0

Calibration data for Tl 351.924

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	40.25	>999.9%	N/A
SEQ-CAL2@ 23J0971	119.6	0.05	0.0698	33.56	28.06	39.60%
SEQ-CAL3@ 23J0972	88.8	0.0625	0.0518	12.04	13.55	-17.04%
SEQ-CAL4@ 23J0973	456.2	0.25	0.2662	14.93	3.27	6.48%
SEQ-CAL5@ 23J0974	926.5	0.5	0.5407	27.97	3.02	8.13%
SEQ-CAL6@ 23J0975	4348.7	2.5	2.538	74.37	1.71	1.51%
SEQ-CAL7@ 23J0976	8526.8	5.0	4.976	85.14	1.00	-0.48%

Correlation Coef.: 0.999930 Slope: 1714 Intercept: 0.0

Calibration data for V 290.880

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	38.35	5.00	N/A
SEQ-CAL2@ 23J0971	805.3	0.01	0.0113	37.00	4.59	13.50%
SEQ-CAL3@ 23J0972	9218.5	0.125	0.1299	210.85	2.29	3.94%
SEQ-CAL4@ 23J0973	36111.0	0.5	0.5089	221.38	0.61	1.79%
SEQ-CAL5@ 23J0974	72624.3	1.0	1.024	693.69	0.96	2.36%
SEQ-CAL6@ 23J0975	348011.5	5.0	4.905	960.68	0.28	-1.90%
SEQ-CAL7@ 23J0976	712691.7	10.0	10.04	1503.51	0.21	0.45%

Correlation Coef.: 0.999954 Slope: 70950 Intercept: 0.0

Calibration data for Zn 206.200

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	15.55	13.54	N/A
SEQ-CAL2@ 23J0971	594.2	0.01	0.0111	6.92	1.16	11.17%
SEQ-CAL3@ 23J0972	6868.7	0.125	0.1285	130.99	1.91	2.80%
SEQ-CAL4@ 23J0973	27949.0	0.5	0.5229	274.78	0.98	4.58%
SEQ-CAL5@ 23J0974	55808.8	1.0	1.044	701.83	1.26	4.41%
SEQ-CAL6@ 23J0975	266839.7	5.0	4.992	755.40	0.28	-0.15%
SEQ-CAL7@ 23J0976	534406.5	10.0	9.998	2046.98	0.38	-0.02%

Correlation Coef.: 0.999990 Slope: 53450 Intercept: 0.0

Calibration data for Zr 343.823

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	80.97	193.64	N/A
SEQ-CAL3@ 23J0972	18455.3	0.125	0.1288	400.47	2.17	3.04%

SEQ-CAL4@	23J0973	72370.5	0.5	0.5051	476.54	0.66	1.01%
SEQ-CAL5@	23J0974	148508.2	1.0	1.036	1334.73	0.90	3.64%
SEQ-CAL6@	23J0975	696548.0	5.0	4.861	1910.15	0.27	-2.78%
SEQ-CAL7@	23J0976	1442268.8	10.0	10.07	3578.01	0.25	0.65%
Correlation Coef.: 0.999901 Slope: 143300 Intercept: 0.0							

No 6010 Ag, As, K,
Ti; OK 200.7 NDC
04/12/2024

Method Loaded

Method Name: ICP4_012224*

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2024 8:13:52 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 8

Date Collected: 4/11/2024 10:05:56 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICV@ 23K0257

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	194194.3	85.3 %	0.03	85.3 %	0.03	0.04%
Y axial	1790097.2	89.9 %	0.91	89.9 %	0.91	1.01%
Ag 328.068†	35271.0	1.076 mg/L	0.0178	1.076 mg/L	0.0178	1.65%
QC value greater than the upper limit for Ag 328.068 Recovery = 107.60%						
Al 396.153†	9377.2	2.042 mg/L	0.0156	2.042 mg/L	0.0156	0.76%
QC value within limits for Al 396.153 Recovery = 102.10%						
As 188.979†	3196.4	2.026 mg/L	0.0201	2.026 mg/L	0.0201	0.99%
QC value within limits for As 188.979 Recovery = 101.28%						
B 208.889†	12831.2	1.909 mg/L	0.0194	1.909 mg/L	0.0194	1.02%
QC value within limits for B 208.889 Recovery = 95.46%						
Ba 233.527†	21822.8	1.913 mg/L	0.0069	1.913 mg/L	0.0069	0.36%
QC value within limits for Ba 233.527 Recovery = 95.64%						
Be 313.107†	1195722.6	2.030 mg/L	0.0066	2.030 mg/L	0.0066	0.33%
QC value within limits for Be 313.107 Recovery = 101.52%						
Ca 317.933†	27435.2	2.039 mg/L	0.0133	2.039 mg/L	0.0133	0.65%
QC value within limits for Ca 317.933 Recovery = 101.94%						
Cd 228.802†	51685.1	2.022 mg/L	0.0167	2.022 mg/L	0.0167	0.83%
QC value within limits for Cd 228.802 Recovery = 101.10%						
Co 228.616†	47296.2	2.091 mg/L	0.0181	2.091 mg/L	0.0181	0.87%

No 200.7: Ag, Cu,
Pb OK 6010; No K,
TI NDC 04/12/2024

QC value within limits for Co 228.616 Recovery = 104.53%
 Cr 267.716† 100354.0 2.094 mg/L 0.0070 2.094 mg/L 0.0070 0.33%
 QC value within limits for Cr 267.716 Recovery = 104.70%
 Cu 327.393† 115115.8 2.109 mg/L 0.0058 2.109 mg/L 0.0058 0.27%
 QC value greater than the upper limit for Cu 327.393 Recovery = 105.43%
 Fe 238.204† 16557.8 2.091 mg/L 0.0122 2.091 mg/L 0.0122 0.58%
 QC value within limits for Fe 238.204 Recovery = 104.57%
 K 766.490† 9853.3 1.758 mg/L 0.0354 1.758 mg/L 0.0354 2.01%
 QC value less than the lower limit for K 766.490 Recovery = 87.90%
 Mg 285.213† 27854.5 2.090 mg/L 0.0154 2.090 mg/L 0.0154 0.74%
 QC value within limits for Mg 285.213 Recovery = 104.50%
 Mn 257.610† 83834.0 2.037 mg/L 0.0128 2.037 mg/L 0.0128 0.63%
 QC value within limits for Mn 257.610 Recovery = 101.86%
 Mo 202.031† 34160.0 2.032 mg/L 0.0179 2.032 mg/L 0.0179 0.88%
 QC value within limits for Mo 202.031 Recovery = 101.60%
 Na 589.592† 21197.4 2.073 mg/L 0.0148 2.073 mg/L 0.0148 0.72%
 QC value within limits for Na 589.592 Recovery = 103.65%
 Ni 231.604† 77350.4 2.070 mg/L 0.0095 2.070 mg/L 0.0095 0.46%
 QC value within limits for Ni 231.604 Recovery = 103.52%
 Pb 220.353† 12928.6 2.102 mg/L 0.0262 2.102 mg/L 0.0262 1.25%
 QC value greater than the upper limit for Pb 220.353 Recovery = 105.09%
 Sb 206.836† 5054.1 2.034 mg/L 0.0184 2.034 mg/L 0.0184 0.91%
 QC value within limits for Sb 206.836 Recovery = 101.71%
 Se 196.026† 3580.8 2.040 mg/L 0.0234 2.040 mg/L 0.0234 1.15%
 QC value within limits for Se 196.026 Recovery = 101.98%
 Sn 189.927† 13443.7 2.077 mg/L 0.0216 2.077 mg/L 0.0216 1.04%
 QC value within limits for Sn 189.927 Recovery = 103.84%
 Ti 337.279† 68304.2 1.992 mg/L 0.0146 1.992 mg/L 0.0146 0.73%
 QC value within limits for Ti 337.279 Recovery = 99.58%
 Tl 351.924† 1927.7 1.153 mg/L 0.0104 1.153 mg/L 0.0104 0.90%
 QC value greater than the upper limit for Tl 351.924 Recovery = 115.31%
 V 290.880† 144239.2 2.033 mg/L 0.0068 2.033 mg/L 0.0068 0.34%
 QC value within limits for V 290.880 Recovery = 101.66%
 Zn 206.200† 109499.6 2.059 mg/L 0.0146 2.059 mg/L 0.0146 0.71%
 QC value within limits for Zn 206.200 Recovery = 102.95%
 Zr 343.823† 296172.3 2.067 mg/L 0.0055 2.067 mg/L 0.0055 0.26%
 QC value within limits for Zr 343.823 Recovery = 103.34%
 QC Failed. Continue with analysis.
 User canceled analysis.

No 200.7: Ag, Cu, Pb OK 6010; No K, TI NDC
 04/12/2024

Batch ID: AVIO 500

Sequence No.: 2

Sample ID: SEQ-ICB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2024 10:11:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	201465.4	88.5 %	1.16	88.5 %	1.16	1.31%
Y axial	1807017.9	90.7 %	0.35	90.7 %	0.35	0.38%
Ag 328.068†	68.5	0.0021 mg/L	0.00040	0.0021 mg/L	0.00040	19.28%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-23.1	-0.0055 mg/L	0.00142	-0.0055 mg/L	0.00142	25.68%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-0.2	-0.0001 mg/L	0.00291	-0.0001 mg/L	0.00291	>999.9%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	29.0	0.0045 mg/L	0.00208	0.0045 mg/L	0.00208	46.49%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	8.4	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	14.17%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	193.6	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	23.53%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	25.0	0.0019 mg/L	0.00105	0.0019 mg/L	0.00105	56.59%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	14.0	0.0006 mg/L	0.00074	0.0006 mg/L	0.00074	131.51%

Co	228.616†	QC value within limits for Cd 228.802	Recovery = Not calculated				
		-13.8	-0.0006 mg/L	0.00049	-0.0006 mg/L	0.00049	80.10%
Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated				
		9.4	0.0002 mg/L	0.00030	0.0002 mg/L	0.00030	149.67%
Cu	327.393†	QC value within limits for Cr 267.716	Recovery = Not calculated				
		1.6	0.0000 mg/L	0.00093	0.0000 mg/L	0.00093	>999.9%
Fe	238.204†	QC value within limits for Cu 327.393	Recovery = Not calculated				
		15.0	0.0019 mg/L	0.00110	0.0019 mg/L	0.00110	59.03%
K	766.490†	QC value within limits for Fe 238.204	Recovery = Not calculated				
		-418.3	-0.0746 mg/L	0.01609	-0.0746 mg/L	0.01609	21.57%
Mg	285.213†	QC value within limits for K 766.490	Recovery = Not calculated				
		-4.7	-0.0004 mg/L	0.00036	-0.0004 mg/L	0.00036	100.87%
Mn	257.610†	QC value within limits for Mg 285.213	Recovery = Not calculated				
		-13.8	-0.0003 mg/L	0.00025	-0.0003 mg/L	0.00025	75.55%
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated				
		31.4	0.0019 mg/L	0.00032	0.0019 mg/L	0.00032	17.29%
Na	589.592†	QC value within limits for Mo 202.031	Recovery = Not calculated				
		-528.3	-0.0517 mg/L	0.00362	-0.0517 mg/L	0.00362	7.01%
Ni	231.604†	QC value within limits for Na 589.592	Recovery = Not calculated				
		-31.4	-0.0008 mg/L	0.00045	-0.0008 mg/L	0.00045	53.04%
Pb	220.353†	QC value within limits for Ni 231.604	Recovery = Not calculated				
		18.0	0.0029 mg/L	0.00023	0.0029 mg/L	0.00023	7.79%
Sb	206.836†	QC value within limits for Pb 220.353	Recovery = Not calculated				
		8.6	0.0035 mg/L	0.00159	0.0035 mg/L	0.00159	45.52%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated				
		12.4	0.0071 mg/L	0.00643	0.0071 mg/L	0.00643	90.65%
Sn	189.927†	QC value within limits for Se 196.026	Recovery = Not calculated				
		11.7	0.0018 mg/L	0.00022	0.0018 mg/L	0.00022	12.37%
Ti	337.279†	QC value within limits for Sn 189.927	Recovery = Not calculated				
		-56.0	-0.0016 mg/L	0.00091	-0.0016 mg/L	0.00091	55.45%
Tl	351.924†	QC value within limits for Ti 337.279	Recovery = Not calculated				
		9.2	0.0054 mg/L	0.02057	0.0054 mg/L	0.02057	382.53%
V	290.880†	QC value within limits for Tl 351.924	Recovery = Not calculated				
		104.5	0.0015 mg/L	0.00047	0.0015 mg/L	0.00047	31.66%
Zn	206.200†	QC value within limits for V 290.880	Recovery = Not calculated				
		70.0	0.0013 mg/L	0.00014	0.0013 mg/L	0.00014	10.79%
Zr	343.823†	QC value within limits for Zn 206.200	Recovery = Not calculated				
		145.2	0.0010 mg/L	0.00043	0.0010 mg/L	0.00043	42.09%
All analyte(s) passed QC.							

Batch ID: AVIO 500

Sequence No.: 3

Sample ID: SEQ-LCV@ 23J0971

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 14

Date Collected: 4/11/2024 10:19:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@ 23J0971

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	200725.8	88.1 %		1.46	88.1 %	1.46	1.66%
Y axial	1771678.4	88.9 %		0.88	88.9 %	0.88	0.99%
Ag 328.068†	347.8	0.0107 mg/L		0.00094	0.0107 mg/L	0.00094	8.76%
Al 396.153†	244.7	0.0540 mg/L		0.00168	0.0540 mg/L	0.00168	3.10%
As 188.979†	18.5	0.0114 mg/L		0.00321	0.0114 mg/L	0.00321	28.05%
B 208.889†	616.7	0.0943 mg/L		0.00177	0.0943 mg/L	0.00177	1.87%
Ba 233.527†	563.4	0.0494 mg/L		0.00101	0.0494 mg/L	0.00101	2.04%
Be 313.107†	2419.8	0.0041 mg/L		0.00010	0.0041 mg/L	0.00010	2.35%
Ca 317.933†	6546.8	0.4865 mg/L		0.01062	0.4865 mg/L	0.01062	2.18%
Cd 228.802†	112.2	0.0042 mg/L		0.00016	0.0042 mg/L	0.00016	3.72%

No K, Ti; SEE Pb RR NDC 04/12/2024

QC value within limits for Cd 228.802 Recovery = 105.32%

Co 228.616† 211.5 0.0094 mg/L 0.00022 0.0094 mg/L 0.00022 2.34%

QC value within limits for Co 228.616 Recovery = 93.87%

Cr 267.716† 499.6 0.0104 mg/L 0.00033 0.0104 mg/L 0.00033 3.15%

QC value within limits for Cr 267.716 Recovery = 104.24%

Cu 327.393† 580.2 0.0106 mg/L 0.00108 0.0106 mg/L 0.00108 10.22%

QC value within limits for Cu 327.393 Recovery = 106.09%

Fe 238.204† 405.9 0.0508 mg/L 0.00347 0.0508 mg/L 0.00347 6.83%

QC value within limits for Fe 238.204 Recovery = 101.53%

K 766.490† 8465.9 1.510 mg/L 0.0128 1.510 mg/L 0.0128 0.85%

QC value less than the lower limit for K 766.490 Recovery = 75.52%

Mg 285.213† 668.0 0.0502 mg/L 0.00169 0.0502 mg/L 0.00169 3.37%

QC value within limits for Mg 285.213 Recovery = 100.32%

Mn 257.610† 410.2 0.0100 mg/L 0.00012 0.0100 mg/L 0.00012 1.24%

QC value within limits for Mn 257.610 Recovery = 99.70%

Mo 202.031† 882.5 0.0525 mg/L 0.00036 0.0525 mg/L 0.00036 0.68%

QC value within limits for Mo 202.031 Recovery = 104.99%

Na 589.592† 20130.6 1.969 mg/L 0.0229 1.969 mg/L 0.0229 1.16%

QC value within limits for Na 589.592 Recovery = 98.43%

Ni 231.604† 352.0 0.0094 mg/L 0.00030 0.0094 mg/L 0.00030 3.20%

QC value within limits for Ni 231.604 Recovery = 94.12%

Pb 220.353† 76.7 0.0126 mg/L 0.00018 0.0126 mg/L 0.00018 1.45%

QC value greater than the upper limit for Pb 220.353 Recovery = 125.51%

Sb 206.836† 116.9 0.0477 mg/L 0.00149 0.0477 mg/L 0.00149 3.12%

QC value within limits for Sb 206.836 Recovery = 95.45%

Se 196.026† 100.7 0.0574 mg/L 0.00302 0.0574 mg/L 0.00302 5.26%

QC value within limits for Se 196.026 Recovery = 114.77%

Sn 189.927† 635.1 0.0980 mg/L 0.00150 0.0980 mg/L 0.00150 1.53%

QC value within limits for Sn 189.927 Recovery = 97.99%

Ti 337.279† 627.0 0.0183 mg/L 0.00065 0.0183 mg/L 0.00065 3.55%

QC value within limits for Ti 337.279 Recovery = 91.45%

Tl 351.924† 103.5 0.0604 mg/L 0.04617 0.0604 mg/L 0.04617 76.44%

QC value greater than the upper limit for Tl 351.924 Recovery = 120.80%

V 290.880† 786.4 0.0111 mg/L 0.00024 0.0111 mg/L 0.00024 2.13%

QC value within limits for V 290.880 Recovery = 110.93%

Zn 206.200† 592.3 0.0109 mg/L 0.00009 0.0109 mg/L 0.00009 0.80%

QC value within limits for Zn 206.200 Recovery = 109.47%

Zr 343.823† 160.8 0.0011 mg/L 0.00045 0.0011 mg/L 0.00045 40.52%

QC Failed. Continue with analysis.

User canceled analysis.

No K, Ti; SEE Pb RR NDC 04/12/2024

Method Loaded

Method Name: ICP4_012224*

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2024 10:10:35 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 7

Sample ID: SEQ-LCV@RR

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 22

Date Collected: 4/11/2024 10:28:08 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	196306.9	86.2 %		0.75	86.2 %	0.75	0.87%
Y axial	1811256.3	90.9 %		0.73	90.9 %	0.73	0.80%
Ag 328.068†	165.5	0.0051 mg/L		0.00058	0.0051 mg/L	0.00058	11.43%
Al 396.153†	28.7	0.0059 mg/L		0.02100	0.0059 mg/L	0.02100	354.39%
As 188.979†	14.2	0.0090 mg/L		0.00351	0.0090 mg/L	0.00351	39.20%
B 208.889†	71.9	0.0107 mg/L		0.00254	0.0107 mg/L	0.00254	23.69%
Ba 233.527†	108.4	0.0095 mg/L		0.00072	0.0095 mg/L	0.00072	7.57%
Be 313.107†	5763.6	0.0098 mg/L		0.00012	0.0098 mg/L	0.00012	1.26%
Ca 317.933†	155.1	0.0115 mg/L		0.00415	0.0115 mg/L	0.00415	36.00%
Cd 228.802†	245.7	0.0096 mg/L		0.00014	0.0096 mg/L	0.00014	1.49%
Co 228.616†	212.4	0.0094 mg/L		0.00034	0.0094 mg/L	0.00034	3.58%
Cr 267.716†	499.4	0.0104 mg/L		0.00028	0.0104 mg/L	0.00028	2.70%
Cu 327.393†	403.1	0.0074 mg/L		0.00091	0.0074 mg/L	0.00091	12.26%
Fe 238.204†	89.8	0.0113 mg/L		0.00040	0.0113 mg/L	0.00040	3.49%
K 766.490†	-436.7	-0.0779 mg/L		0.01289	-0.0779 mg/L	0.01289	16.54%
Mg 285.213†	116.0	0.0087 mg/L		0.00079	0.0087 mg/L	0.00079	9.03%
Mn 257.610†	385.4	0.0094 mg/L		0.00006	0.0094 mg/L	0.00006	0.66%
Mo 202.031†	184.4	0.0110 mg/L		0.00044	0.0110 mg/L	0.00044	4.05%
Na 589.592†	-282.7	-0.0276 mg/L		0.00225	-0.0276 mg/L	0.00225	8.13%
Ni 231.604†	343.1	0.0092 mg/L		0.00020	0.0092 mg/L	0.00020	2.19%
Pb 220.353†	65.9	0.0107 mg/L		0.00211	0.0107 mg/L	0.00211	19.67%
QC value within limits for Pb 220.353 Recovery = 107.16%							
Sb 206.836†	26.2	0.0106 mg/L		0.00368	0.0106 mg/L	0.00368	34.83%
Se 196.026†	22.9	0.0130 mg/L		0.00118	0.0130 mg/L	0.00118	9.03%
Sn 189.927†	70.2	0.0108 mg/L		0.00070	0.0108 mg/L	0.00070	6.50%
Ti 337.279†	278.0	0.0081 mg/L		0.00082	0.0081 mg/L	0.00082	10.16%
Tl 351.924†	36.8	0.0216 mg/L		0.02675	0.0216 mg/L	0.02675	123.98%
V 290.880†	750.8	0.0106 mg/L		0.00067	0.0106 mg/L	0.00067	6.33%
Zn 206.200†	527.8	0.0099 mg/L		0.00022	0.0099 mg/L	0.00022	2.17%
Zr 343.823†	1353.4	0.0094 mg/L		0.00006	0.0094 mg/L	0.00006	0.66%

All analyte(s) passed QC.

User canceled analysis.

Batch ID: AVIO 500

Sequence No.: 4

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2024 10:36:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	192150.5	84.4 %		0.97	84.4 %	0.97	1.15%
Y axial	1736452.6	87.2 %		0.26	87.2 %	0.26	0.30%
Ag 328.068†	83597.8	2.550 mg/L		0.0353	2.550 mg/L	0.0353	1.38%

No TI NDC
04/12/2024

QC value within limits for Ag 328.068 Recovery = 101.99%
 Al 396.153† 43613.8 9.810 mg/L 0.0086 9.810 mg/L 0.0086 0.09%
 QC value within limits for Al 396.153 Recovery = 98.10%
 As 188.979† 8020.9 5.083 mg/L 0.0932 5.083 mg/L 0.0932 1.83%
 QC value within limits for As 188.979 Recovery = 101.66%
 B 208.889† 32418.8 4.825 mg/L 0.0822 4.825 mg/L 0.0822 1.70%
 QC value within limits for B 208.889 Recovery = 96.51%
 Ba 233.527† 55346.2 4.851 mg/L 0.0518 4.851 mg/L 0.0518 1.07%
 QC value within limits for Ba 233.527 Recovery = 97.02%
 Be 313.107† 2982029.6 5.063 mg/L 0.0762 5.063 mg/L 0.0762 1.51%
 QC value within limits for Be 313.107 Recovery = 101.27%
 Ca 317.933† 133741.8 9.939 mg/L 0.0292 9.939 mg/L 0.0292 0.29%
 QC value within limits for Ca 317.933 Recovery = 99.39%
 Cd 228.802† 128170.3 5.012 mg/L 0.0082 5.012 mg/L 0.0082 0.16%
 QC value within limits for Cd 228.802 Recovery = 100.25%
 Co 228.616† 116039.9 5.129 mg/L 0.0208 5.129 mg/L 0.0208 0.41%
 QC value within limits for Co 228.616 Recovery = 102.58%
 Cr 267.716† 247076.8 5.156 mg/L 0.0178 5.156 mg/L 0.0178 0.35%
 QC value within limits for Cr 267.716 Recovery = 103.11%
 Cu 327.393† 280765.6 5.144 mg/L 0.0158 5.144 mg/L 0.0158 0.31%
 QC value within limits for Cu 327.393 Recovery = 102.88%
 Fe 238.204† 39410.0 4.980 mg/L 0.0036 4.980 mg/L 0.0036 0.07%
 QC value within limits for Fe 238.204 Recovery = 99.60%
 K 766.490† 53388.4 9.525 mg/L 0.0074 9.525 mg/L 0.0074 0.08%
 QC value within limits for K 766.490 Recovery = 95.25%
 Mg 285.213† 132654.1 9.965 mg/L 0.0318 9.965 mg/L 0.0318 0.32%
 QC value within limits for Mg 285.213 Recovery = 99.65%
 Mn 257.610† 208890.0 5.076 mg/L 0.0138 5.076 mg/L 0.0138 0.27%
 QC value within limits for Mn 257.610 Recovery = 101.52%
 Mo 202.031† 85839.1 5.106 mg/L 0.0104 5.106 mg/L 0.0104 0.20%
 QC value within limits for Mo 202.031 Recovery = 102.12%
 Na 589.592† 102214.2 9.996 mg/L 0.0352 9.996 mg/L 0.0352 0.35%
 QC value within limits for Na 589.592 Recovery = 99.96%
 Ni 231.604† 192120.0 5.143 mg/L 0.0120 5.143 mg/L 0.0120 0.23%
 QC value within limits for Ni 231.604 Recovery = 102.85%
 Pb 220.353† 31523.9 5.126 mg/L 0.0649 5.126 mg/L 0.0649 1.27%
 QC value within limits for Pb 220.353 Recovery = 102.51%
 Sb 206.836† 12701.8 5.114 mg/L 0.0616 5.114 mg/L 0.0616 1.20%
 QC value within limits for Sb 206.836 Recovery = 102.28%
 Se 196.026† 8983.0 5.116 mg/L 0.0927 5.116 mg/L 0.0927 1.81%
 QC value within limits for Se 196.026 Recovery = 102.33%
 Sn 189.927† 33656.4 5.199 mg/L 0.0714 5.199 mg/L 0.0714 1.37%
 QC value within limits for Sn 189.927 Recovery = 103.99%
 Ti 337.279† 172822.1 5.039 mg/L 0.0184 5.039 mg/L 0.0184 0.36%
 QC value within limits for Ti 337.279 Recovery = 100.78%
 Tl 351.924† 4727.2 2.830 mg/L 0.0677 2.830 mg/L 0.0677 2.39%
 QC value greater than the upper limit for Tl 351.924 Recovery = 113.21%
 V 290.880† 364228.3 5.135 mg/L 0.0152 5.135 mg/L 0.0152 0.30%
 QC value within limits for V 290.880 Recovery = 102.70%
 Zn 206.200† 274912.5 5.168 mg/L 0.0177 5.168 mg/L 0.0177 0.34%
 QC value within limits for Zn 206.200 Recovery = 103.37%
 Zr 343.823† 752960.3 5.255 mg/L 0.0147 5.255 mg/L 0.0147 0.28%
 QC value within limits for Zr 343.823 Recovery = 105.09%
 QC Failed. Continue with analysis.

No TI NDC
 04/12/2024

Batch ID: AVIO 500

Sequence No.: 5

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 11

Date Collected: 4/11/2024 10:44:03 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	180440.0	79.2 %	1.92	79.2 %	1.92	2.43%
Y axial	1608533.6	80.7 %	0.92	80.7 %	0.92	1.14%

Ag	328.068†	-502.5	-0.0052 mg/L	0.00009	-0.0052 mg/L	0.00009	1.66%
	QC value within limits for Ag	328.068	Recovery = Not calculated				
Al	396.153†	1096699.5	256.0 mg/L	0.76	256.0 mg/L	0.76	0.30%
	QC value within limits for Al	396.153	Recovery = 102.39%				
As	188.979†	-3.6	0.0094 mg/L	0.00941	0.0094 mg/L	0.00941	99.70%
	QC value within limits for As	188.979	Recovery = Not calculated				
B	208.889†	10.0	-0.0005 mg/L	0.00080	-0.0005 mg/L	0.00080	156.21%
	QC value within limits for B	208.889	Recovery = Not calculated				
Ba	233.527†	98.4	0.0086 mg/L	0.00058	0.0086 mg/L	0.00058	6.70%
	QC value within limits for Ba	233.527	Recovery = Not calculated				
Be	313.107†	379.1	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.89%
	QC value within limits for Be	313.107	Recovery = Not calculated				
Ca	317.933†	3333980.4	247.8 mg/L	0.95	247.8 mg/L	0.95	0.38%
	QC value within limits for Ca	317.933	Recovery = 99.10%				
Cd	228.802†	4.1	0.0002 mg/L	0.00060	0.0002 mg/L	0.00060	264.96%
	QC value within limits for Cd	228.802	Recovery = Not calculated				
Co	228.616†	-48.5	-0.0021 mg/L	0.00068	-0.0021 mg/L	0.00068	32.18%
	QC value within limits for Co	228.616	Recovery = Not calculated				
Cr	267.716†	295.2	0.0087 mg/L	0.00054	0.0087 mg/L	0.00054	6.25%
	QC value within limits for Cr	267.716	Recovery = Not calculated				
Cu	327.393†	-432.1	-0.0034 mg/L	0.00058	-0.0034 mg/L	0.00058	17.35%
	QC value within limits for Cu	327.393	Recovery = Not calculated				
Fe	238.204†	786775.7	98.18 mg/L	0.315	98.18 mg/L	0.315	0.32%
	QC value within limits for Fe	238.204	Recovery = 98.18%				
K	766.490†	-315.8	-0.0563 mg/L	0.01593	-0.0563 mg/L	0.01593	28.26%
	QC value within limits for K	766.490	Recovery = Not calculated				
Mg	285.213†	3127380.8	235.3 mg/L	0.34	235.3 mg/L	0.34	0.15%
	QC value within limits for Mg	285.213	Recovery = 94.12%				
Mn	257.610†	-273.4	-0.0040 mg/L	0.00036	-0.0040 mg/L	0.00036	8.89%
	QC value within limits for Mn	257.610	Recovery = Not calculated				
Mo	202.031†	616.6	0.0367 mg/L	0.00080	0.0367 mg/L	0.00080	2.17%
	QC value within limits for Mo	202.031	Recovery = Not calculated				
Na	589.592†	277.9	0.0272 mg/L	0.01067	0.0272 mg/L	0.01067	39.28%
	QC value within limits for Na	589.592	Recovery = Not calculated				
Ni	231.604†	-313.4	-0.0034 mg/L	0.00096	-0.0034 mg/L	0.00096	28.02%
	QC value within limits for Ni	231.604	Recovery = Not calculated				
Pb	220.353†	-94.5	0.0076 mg/L	0.00183	0.0076 mg/L	0.00183	24.10%
	QC value within limits for Pb	220.353	Recovery = Not calculated				
Sb	206.836†	14.3	0.0063 mg/L	0.00395	0.0063 mg/L	0.00395	62.96%
	QC value within limits for Sb	206.836	Recovery = Not calculated				
Se	196.026†	-56.9	0.0311 mg/L	0.00546	0.0311 mg/L	0.00546	17.57%
	QC value within limits for Se	196.026	Recovery = Not calculated				
Sn	189.927†	-44.1	-0.0068 mg/L	0.00165	-0.0068 mg/L	0.00165	24.15%
	QC value within limits for Sn	189.927	Recovery = Not calculated				
Ti	337.279†	-93.7	-0.0027 mg/L	0.00033	-0.0027 mg/L	0.00033	12.13%
	QC value within limits for Ti	337.279	Recovery = Not calculated				
Tl	351.924†	-51.0	-0.0107 mg/L	0.01241	-0.0107 mg/L	0.01241	116.14%
	QC value within limits for Tl	351.924	Recovery = Not calculated				
V	290.880†	-1470.8	-0.0030 mg/L	0.00116	-0.0030 mg/L	0.00116	38.96%
	QC value within limits for V	290.880	Recovery = Not calculated				
Zn	206.200†	116.8	0.0022 mg/L	0.00029	0.0022 mg/L	0.00029	12.98%
	QC value within limits for Zn	206.200	Recovery = Not calculated				
Zr	343.823†	649.6	0.0003 mg/L	0.00031	0.0003 mg/L	0.00031	93.94%
All analyte(s) passed QC.							

Batch ID: AVIO 500

Sequence No.: 6

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 12

Date Collected: 4/11/2024 10:51:04 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	191154.8	83.9 %	0.96	83.9 %	0.96	1.14%
Y axial	1620361.8	81.3 %	0.32	81.3 %	0.32	0.39%

Ag	328.068†	13601.0	0.4311 mg/L	0.00210	0.4311 mg/L	0.00210	0.49%
	QC value within limits for Ag	328.068	Recovery = 107.77%				
Al	396.153†	1061739.2	247.8 mg/L	0.25	247.8 mg/L	0.25	0.10%
	QC value within limits for Al	396.153	Recovery = 99.12%				
As	188.979†	306.7	0.2055 mg/L	0.00255	0.2055 mg/L	0.00255	1.24%
	QC value within limits for As	188.979	Recovery = 102.75%				
B	208.889†	22.3	0.0014 mg/L	0.00123	0.0014 mg/L	0.00123	87.22%
	QC value within limits for B	208.889	Recovery = Not calculated				
Ba	233.527†	11594.0	1.016 mg/L	0.0088	1.016 mg/L	0.0088	0.86%
	QC value within limits for Ba	233.527	Recovery = 101.62%				
Be	313.107†	603003.7	1.024 mg/L	0.0014	1.024 mg/L	0.0014	0.14%
	QC value within limits for Be	313.107	Recovery = 102.39%				
Ca	317.933†	3260641.4	242.3 mg/L	0.21	242.3 mg/L	0.21	0.09%
	QC value within limits for Ca	317.933	Recovery = 96.92%				
Cd	228.802†	50265.1	2.012 mg/L	0.0127	2.012 mg/L	0.0127	0.63%
	QC value within limits for Cd	228.802	Recovery = 100.60%				
Co	228.616†	20215.4	0.8947 mg/L	0.00433	0.8947 mg/L	0.00433	0.48%
	QC value within limits for Co	228.616	Recovery = 89.47%				
Cr	267.716†	47755.1	0.9987 mg/L	0.00598	0.9987 mg/L	0.00598	0.60%
	QC value within limits for Cr	267.716	Recovery = 99.87%				
Cu	327.393†	51895.8	0.9496 mg/L	0.00403	0.9496 mg/L	0.00403	0.42%
	QC value within limits for Cu	327.393	Recovery = 94.96%				
Fe	238.204†	784350.0	97.88 mg/L	0.067	97.88 mg/L	0.067	0.07%
	QC value within limits for Fe	238.204	Recovery = 97.88%				
K	766.490†	-290.6	-0.0518 mg/L	0.02498	-0.0518 mg/L	0.02498	48.19%
	QC value within limits for K	766.490	Recovery = Not calculated				
Mg	285.213†	3116635.9	234.5 mg/L	0.40	234.5 mg/L	0.40	0.17%
	QC value within limits for Mg	285.213	Recovery = 93.79%				
Mn	257.610†	39885.9	0.9719 mg/L	0.00938	0.9719 mg/L	0.00938	0.97%
	QC value within limits for Mn	257.610	Recovery = 97.19%				
Mo	202.031†	621.5	0.0370 mg/L	0.00051	0.0370 mg/L	0.00051	1.38%
	QC value within limits for Mo	202.031	Recovery = Not calculated				
Na	589.592†	310.9	0.0304 mg/L	0.02165	0.0304 mg/L	0.02165	71.22%
	QC value within limits for Na	589.592	Recovery = Not calculated				
Ni	231.604†	67498.0	1.813 mg/L	0.0098	1.813 mg/L	0.0098	0.54%
	QC value within limits for Ni	231.604	Recovery = 90.63%				
Pb	220.353†	489.7	0.1006 mg/L	0.00197	0.1006 mg/L	0.00197	1.96%
	QC value within limits for Pb	220.353	Recovery = 100.58%				
Sb	206.836†	2710.4	1.073 mg/L	0.0022	1.073 mg/L	0.0022	0.20%
	QC value within limits for Sb	206.836	Recovery = 89.43%				
Se	196.026†	846.2	0.5446 mg/L	0.00038	0.5446 mg/L	0.00038	0.07%
	QC value within limits for Se	196.026	Recovery = 108.92%				
Sn	189.927†	-49.9	-0.0077 mg/L	0.00044	-0.0077 mg/L	0.00044	5.69%
	QC value within limits for Sn	189.927	Recovery = Not calculated				
Ti	337.279†	-8.1	-0.0002 mg/L	0.00151	-0.0002 mg/L	0.00151	636.56%
	QC value within limits for Ti	337.279	Recovery = Not calculated				
Tl	351.924†	353.0	0.2238 mg/L	0.00556	0.2238 mg/L	0.00556	2.48%
	QC value within limits for Tl	351.924	Recovery = 111.92%				
V	290.880†	70022.1	1.005 mg/L	0.0023	1.005 mg/L	0.0023	0.22%
	QC value within limits for V	290.880	Recovery = 100.46%				
Zn	206.200†	100496.1	1.885 mg/L	0.0124	1.885 mg/L	0.0124	0.66%
	QC value within limits for Zn	206.200	Recovery = 94.27%				
Zr	343.823†	706.2	0.0007 mg/L	0.00046	0.0007 mg/L	0.00046	62.00%
All analyte(s) passed QC.							

Batch ID: AVIO 500

Sequence No.: 7

Sample ID: SEQ-LCV@RR

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 22

Date Collected: 4/11/2024 10:58:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	197991.5	86.9 %	6.19	86.9 %	6.19	7.12%
Y axial	2075782.0	104 %	1.49	104 %	1.49	1.43%

EMPTY CUP NDC
04/12/2024

Saturated within auto integration window (code 4)

Ag 328.068†	-0.8	-0.0001 mg/L	0.00104	-0.0001 mg/L	0.00104	>999.9%
Al 396.153†	52.8	0.0123 mg/L	0.01169	0.0123 mg/L	0.01169	95.28%
As 188.979†	2.5	0.0016 mg/L	0.00116	0.0016 mg/L	0.00116	72.38%
B 208.889†	-20.2	-0.0032 mg/L	0.00025	-0.0032 mg/L	0.00025	7.59%
Ba 233.527†	64.8	0.0057 mg/L	0.00458	0.0057 mg/L	0.00458	80.63%
Be 313.107†	3098.5	0.0053 mg/L	0.00618	0.0053 mg/L	0.00618	116.64%
Ca 317.933†	267.5	0.0199 mg/L	0.01720	0.0199 mg/L	0.01720	86.53%
Cd 228.802†	-17.4	-0.0007 mg/L	0.00008	-0.0007 mg/L	0.00008	10.18%
Co 228.616†	-6.0	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	63.52%
Cr 267.716†	1.8	0.0000 mg/L	0.00039	0.0000 mg/L	0.00039	>999.9%
Cu 327.393†	-27.0	-0.0005 mg/L	0.00096	-0.0005 mg/L	0.00096	196.36%
Fe 238.204†	64.5	0.0080 mg/L	0.00923	0.0080 mg/L	0.00923	114.68%
K 766.490†	-231.8	-0.0414 mg/L	0.04289	-0.0414 mg/L	0.04289	103.69%
Mg 285.213†	186.4	0.0140 mg/L	0.01051	0.0140 mg/L	0.01051	75.03%
Mn 257.610†	245.4	0.0060 mg/L	0.00470	0.0060 mg/L	0.00470	78.79%
Mo 202.031†	15.7	0.0009 mg/L	0.00057	0.0009 mg/L	0.00057	60.99%
Na 589.592†	-427.4	-0.0418 mg/L	0.01188	-0.0418 mg/L	0.01188	28.43%
Ni 231.604†	-10.3	-0.0003 mg/L	0.00040	-0.0003 mg/L	0.00040	144.26%
Pb 220.353†	-5.3	-0.0009 mg/L	0.00096	-0.0009 mg/L	0.00096	112.39%
QC value less than the lower limit for Pb 220.353			Recovery = -8.50%			
Sb 206.836†	-7.7	-0.0031 mg/L	0.00154	-0.0031 mg/L	0.00154	50.29%
Se 196.026†	1.1	0.0006 mg/L	0.00393	0.0006 mg/L	0.00393	628.42%
Sn 189.927†	-3.0	-0.0005 mg/L	0.00039	-0.0005 mg/L	0.00039	85.75%
Ti 337.279†	212.7	0.0062 mg/L	0.00453	0.0062 mg/L	0.00453	73.00%
Tl 351.924†	-12.2	-0.0071 mg/L	0.00980	-0.0071 mg/L	0.00980	137.24%
V 290.880†	-366.9	-0.0052 mg/L	0.00023	-0.0052 mg/L	0.00023	4.37%
Zn 206.200†	-95.8	-0.0018 mg/L	0.00003	-0.0018 mg/L	0.00003	1.59%
Zr 343.823†	50.7	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	33.36%

QC Failed. Continue with analysis.

EMPTY CUP NDC

04/12/2024

Batch ID: AVIO 500

Sequence No.: 8

Sample ID: SEQ-HCV1@100

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

User canceled analysis.

Autosampler Location: 15

Date Collected: 4/11/2024 11:04:59 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 8

Sample ID: SEQ-HCV1@100

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 15

Date Collected: 4/11/2024 11:06:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	203010.5	89.1 %	0.80	89.1 %	0.80	0.89%
Y axial	1705018.7	85.6 %	1.28	85.6 %	1.28	1.49%
Ag 328.068†	-11.3	0.5245 mg/L	0.00078	0.5245 mg/L	0.00078	0.15%
Al 396.153†	437530.4	102.2 mg/L	0.96	102.2 mg/L	0.96	0.93%
QC value within limits for Al 396.153 Recovery = 102.23%						
As 188.979†	157192.5	100.2 mg/L	2.45	100.2 mg/L	2.45	2.44%
QC value within limits for As 188.979 Recovery = 100.24%						
B 208.889†	-110.6	-0.0161 mg/L	0.00157	-0.0161 mg/L	0.00157	9.73%
Ba 233.527†	1219911.6	106.9 mg/L	1.42	106.9 mg/L	1.42	1.33%
QC value within limits for Ba 233.527 Recovery = 106.92%						
Be 313.107†	57285776.3	97.24 mg/L	1.253	97.24 mg/L	1.253	1.29%
Ca 317.933†	1815.1	0.1349 mg/L	0.00322	0.1349 mg/L	0.00322	2.39%
Cd 228.802†	2387375.6	93.25 mg/L	0.566	93.25 mg/L	0.566	0.61%
QC value within limits for Cd 228.802 Recovery = 93.25%						
Co 228.616†	2269997.9	100.5 mg/L	0.19	100.5 mg/L	0.19	0.19%
QC value within limits for Co 228.616 Recovery = 100.53%						

No TI NDC 04/12/2024

Cr 267.716†	4859494.5	101.4 mg/L	0.13	101.4 mg/L	0.13	0.13%
QC value within limits for Cr 267.716 Recovery = 101.38%						
Cu 327.393†	5790010.2	105.5 mg/L	0.23	105.5 mg/L	0.23	0.22%
QC value within limits for Cu 327.393 Recovery = 105.45%						
Fe 238.204†	807432.3	102.0 mg/L	1.04	102.0 mg/L	1.04	1.02%
QC value within limits for Fe 238.204 Recovery = 101.97%						
K 766.490†	-424.7	-0.0758 mg/L	0.03105	-0.0758 mg/L	0.03105	40.98%
Mg 285.213†	-2621.5	-0.0137 mg/L	0.00323	-0.0137 mg/L	0.00323	23.55%
Mn 257.610†	4183121.2	101.7 mg/L	1.09	101.7 mg/L	1.09	1.08%
QC value within limits for Mn 257.610 Recovery = 101.65%						
Mo 202.031†	-404.3	-0.0240 mg/L	0.00076	-0.0240 mg/L	0.00076	3.16%
Na 589.592†	-410.0	-0.0401 mg/L	0.00953	-0.0401 mg/L	0.00953	23.77%
Ni 231.604†	3814181.4	102.0 mg/L	0.20	102.0 mg/L	0.20	0.20%
QC value within limits for Ni 231.604 Recovery = 102.02%						
Pb 220.353†	634907.0	102.9 mg/L	0.39	102.9 mg/L	0.39	0.38%
QC value within limits for Pb 220.353 Recovery = 102.90%						
Sb 206.836†	4808.3	0.2844 mg/L	0.05427	0.2844 mg/L	0.05427	19.08%
Se 196.026†	186307.4	106.1 mg/L	2.54	106.1 mg/L	2.54	2.39%
QC value within limits for Se 196.026 Recovery = 106.12%						
Sn 189.927†	-46.5	-0.0072 mg/L	0.00139	-0.0072 mg/L	0.00139	19.34%
Ti 337.279†	-127.7	-0.0037 mg/L	0.00386	-0.0037 mg/L	0.00386	103.62%
Tl 351.924†	212650.0	124.0 mg/L	2.22	124.0 mg/L	2.22	1.79%
QC value greater than the upper limit for Tl 351.924 Recovery = 124.00%						
V 290.880†	7350531.8	103.6 mg/L	0.14	103.6 mg/L	0.14	0.14%
QC value within limits for V 290.880 Recovery = 103.59%						
Zn 206.200†	5329130.8	100.2 mg/L	0.73	100.2 mg/L	0.73	0.73%
QC value within limits for Zn 206.200 Recovery = 100.23%						
Zr 343.823†	-260.7	-0.0061 mg/L	0.00045	-0.0061 mg/L	0.00045	7.41%
QC Failed. Continue with analysis.						

No TI NDC 04/12/2024

Batch ID: AVIO 500

Sequence No.: 9

Sample ID: SEQ-HCV2@500/100

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 16

Date Collected: 4/11/2024 11:15:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	170637.3	74.9 %	1.28	74.9 %	1.28	1.70%
Y axial	1489838.9	74.8 %	0.93	74.8 %	0.93	1.24%
Ag 328.068†	-4.9	0.0257 mg/L	0.00096	0.0257 mg/L	0.00096	3.72%
Al 396.153†	2235952.0	521.9 mg/L	1.42	521.9 mg/L	1.42	0.27%
QC value within limits for Al 396.153 Recovery = 104.37%						
As 188.979†	-11.4	0.0152 mg/L	0.00631	0.0152 mg/L	0.00631	41.45%
B 208.889†	613404.4	96.81 mg/L	0.039	96.81 mg/L	0.039	0.04%
Ba 233.527†	299.8	0.0263 mg/L	0.00114	0.0263 mg/L	0.00114	4.34%
Be 313.107†	2168.4	0.0037 mg/L	0.00019	0.0037 mg/L	0.00019	5.06%
Ca 317.933†	6667419.0	495.5 mg/L	6.65	495.5 mg/L	6.65	1.34%
QC value within limits for Ca 317.933 Recovery = 99.10%						
Cd 228.802†	112.9	0.0048 mg/L	0.00050	0.0048 mg/L	0.00050	10.58%
Co 228.616†	78.4	0.0035 mg/L	0.00034	0.0035 mg/L	0.00034	9.48%
Cr 267.716†	69.8	0.0136 mg/L	0.00047	0.0136 mg/L	0.00047	3.48%
Cu 327.393†	1091.2	0.0289 mg/L	0.00178	0.0289 mg/L	0.00178	6.15%
Fe 238.204†	3814061.4	475.9 mg/L	3.20	475.9 mg/L	3.20	0.67%
QC value within limits for Fe 238.204 Recovery = 95.19%						
K 766.490†	1186706.6	211.7 mg/L	1.80	211.7 mg/L	1.80	0.85%
QC value within limits for K 766.490 Recovery = 105.86%						
Mg 285.213†	2583267.5	194.6 mg/L	0.89	194.6 mg/L	0.89	0.46%
QC value within limits for Mg 285.213 Recovery = 97.28%						
Mn 257.610†	-1111.9	-0.0142 mg/L	0.00026	-0.0142 mg/L	0.00026	1.85%
Mo 202.031†	641.2	0.0381 mg/L	0.00254	0.0381 mg/L	0.00254	6.67%
Na 589.592†	5015507.9	490.5 mg/L	5.33	490.5 mg/L	5.33	1.09%
QC value within limits for Na 589.592 Recovery = 98.10%						
Ni 231.604†	-1061.3	-0.0043 mg/L	0.00183	-0.0043 mg/L	0.00183	42.76%
Pb 220.353†	202.5	0.0713 mg/L	0.00225	0.0713 mg/L	0.00225	3.15%

Sb 206.836†	-2.3	-0.0003 mg/L	0.00317	-0.0003 mg/L	0.00317 >999.9%
Se 196.026†	-277.6	0.1495 mg/L	0.02295	0.1495 mg/L	0.02295 15.35%
Sn 189.927†	-43.2	-0.0067 mg/L	0.00162	-0.0067 mg/L	0.00162 24.29%
Ti 337.279†	-107.7	-0.0032 mg/L	0.00065	-0.0032 mg/L	0.00065 20.50%
Tl 351.924†	-209.4	-0.0301 mg/L	0.00702	-0.0301 mg/L	0.00702 23.33%
V 290.880†	586.2	-0.0025 mg/L	0.00124	-0.0025 mg/L	0.00124 50.66%
Zn 206.200†	1162.1	-0.0234 mg/L	0.00130	-0.0234 mg/L	0.00130 5.55%
Zr 343.823†	2633.7	-0.0020 mg/L	0.00078	-0.0020 mg/L	0.00078 39.43%

All analyte(s) passed QC.

User canceled analysis.

S103057

Instrument: ICP4

Calibration ID: 2400423

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103057-IFA1	QC		1		24C0959	24D0241	
S103057-IFB1	QC		2		24D0240	24D0241	
B370650-BLK1	QC		3			24D0241	
B370650-BS1	QC		4			24D0241	
B370650-BSD1	QC		5			24D0241	
B370650-MS1	QC		6			24D0241	
B370650-MSD1	QC		7			24D0241	
B370650-PS1	QC		8			24D0241	
B370650-SRL1	QC		9			24D0241	
24D0729-08	Cadmium 6010 Total	A	10			24D0241	CAT B - Report to MDL
24D0729-08	Chromium 6010 Total	A	11			24D0241	CAT B - Report to MDL
24D0729-09	Cadmium 6010 Total	A	12			24D0241	CAT B - Report to MDL
24D0729-09	Chromium 6010 Total	A	13			24D0241	CAT B - Report to MDL
24D0729-10	Cadmium 6010 Total	A	14			24D0241	CAT B - Report to MDL
24D0729-10	Chromium 6010 Total	A	15			24D0241	CAT B - Report to MDL
S103057-CCV1	QC		16		24D0029	24D0241	
S103057-CCB1	QC		17		23J0970	24D0241	
24D0729-11	Cadmium 6010 Total	A	18			24D0241	CAT B - Report to MDL
24D0729-11	Chromium 6010 Total	A	19			24D0241	CAT B - Report to MDL
24D0729-12	Cadmium 6010 Total	A	20			24D0241	CAT B - Report to MDL
24D0729-12	Chromium 6010 Total	A	21			24D0241	CAT B - Report to MDL
24D0729-13	Cadmium 6010 Total	A	22			24D0241	CAT B - Report to MDL
24D0729-13	Chromium 6010 Total	A	23			24D0241	CAT B - Report to MDL
24D0729-14	Cadmium 6010 Total	A	24			24D0241	CAT B - Report to MDL
24D0729-14	Chromium 6010 Total	A	25			24D0241	CAT B - Report to MDL
24D0729-15	Cadmium 6010 Total	A	26			24D0241	CAT B - Report to MDL
24D0729-15	Chromium 6010 Total	A	27			24D0241	CAT B - Report to MDL
24D0729-16	Cadmium 6010 Total	A	28			24D0241	CAT B - Report to MDL
24D0729-16	Chromium 6010 Total	A	29			24D0241	CAT B - Report to MDL
24D0729-17	Cadmium 6010 Total	A	30			24D0241	CAT B - Report to MDL
24D0729-17	Chromium 6010 Total	A	31			24D0241	CAT B - Report to MDL
24D0729-18	Cadmium 6010 Total	A	32			24D0241	CAT B - Report to MDL
24D0729-18	Chromium 6010 Total	A	33			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103057

Instrument: ICP4

Calibration ID: 2400423

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0729-19	Cadmium 6010 Total	A	34			24D0241	CAT B - Report to MDL
24D0729-19	Chromium 6010 Total	A	35			24D0241	CAT B - Report to MDL
24D0729-20	Cadmium 6010 Total	A	36			24D0241	CAT B - Report to MDL
24D0729-20	Chromium 6010 Total	A	37			24D0241	CAT B - Report to MDL
S103057-CCV2	QC		38		24D0029	24D0241	
S103057-CCB2	QC		39		23J0970	24D0241	
24D0735-01	Chromium 6010 Total	A	40			24D0241	CAT B - Report to MDL
24D0735-01	Cadmium 6010 Total	A	41			24D0241	CAT B - Report to MDL
24D0735-02	Chromium 6010 Total	A	42			24D0241	CAT B - Report to MDL
24D0735-02	Cadmium 6010 Total	A	43			24D0241	CAT B - Report to MDL
S103057-IFA2	QC		44		24C0959	24D0241	
S103057-IFB2	QC		45		24D0240	24D0241	
S103057-CCV3	QC		46		24D0029	24D0241	
S103057-CCB3	QC		47		23J0970	24D0241	

Samples Loaded By

Date

Data Processed By

Date

=====
Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 12:28:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 12:30:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 7

Date Collected: 4/11/2024 12:43:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Mean Corrected		Calib.	Sample			
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	208630.1	91.6 %	0.11	91.6 %	0.11	0.12%
Y axial	1889829.3	94.9 %	1.20	94.9 %	1.20	1.27%
Ag 328.068†	10.6	0.0003 mg/L	0.00083	0.0003 mg/L	0.00083	248.14%
Al 396.153†	2.0	0.0004 mg/L	0.00619	0.0004 mg/L	0.00619	>999.9%
As 188.979†	8.2	0.0052 mg/L	0.00369	0.0052 mg/L	0.00369	70.68%
B 208.889†	21.9	0.0034 mg/L	0.00062	0.0034 mg/L	0.00062	18.11%
Ba 233.527†	-0.2	-0.0000 mg/L	0.00046	-0.0000 mg/L	0.00046	>999.9%
Be 313.107†	-111.4	-0.0002 mg/L	0.00005	-0.0002 mg/L	0.00005	23.73%
Ca 317.933†	95.9	0.0071 mg/L	0.00123	0.0071 mg/L	0.00123	17.24%
Cd 228.802†	-6.3	-0.0004 mg/L	0.00040	-0.0004 mg/L	0.00040	99.52%
Co 228.616†	-19.0	-0.0008 mg/L	0.00025	-0.0008 mg/L	0.00025	29.69%
Cr 267.716†	29.3	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009	15.39%
Cu 327.393†	-139.1	-0.0025 mg/L	0.00212	-0.0025 mg/L	0.00212	83.68%
Fe 238.204†	98.9	0.0123 mg/L	0.00187	0.0123 mg/L	0.00187	15.16%
K 766.490†	-427.5	-0.0763 mg/L	0.00926	-0.0763 mg/L	0.00926	12.14%
Mg 285.213†	21.0	0.0016 mg/L	0.00066	0.0016 mg/L	0.00066	41.48%
Mn 257.610†	-5.2	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	189.28%
Mo 202.031†	16.3	0.0010 mg/L	0.00042	0.0010 mg/L	0.00042	42.90%
Na 589.592†	-183.7	-0.0180 mg/L	0.00716	-0.0180 mg/L	0.00716	39.85%
Ni 231.604†	-36.5	-0.0010 mg/L	0.00027	-0.0010 mg/L	0.00027	27.74%
Pb 220.353†	0.2	0.0000 mg/L	0.00175	0.0000 mg/L	0.00175	>999.9%
Sb 206.836†	1.5	0.0006 mg/L	0.00177	0.0006 mg/L	0.00177	297.49%
Se 196.026†	9.8	0.0056 mg/L	0.00184	0.0056 mg/L	0.00184	32.81%
Sn 189.927†	0.8	0.0001 mg/L	0.00091	0.0001 mg/L	0.00091	728.37%
Ti 337.279†	12.2	0.0004 mg/L	0.00050	0.0004 mg/L	0.00050	140.64%
Tl 351.924†	-35.5	-0.0207 mg/L	0.00742	-0.0207 mg/L	0.00742	35.87%
V 290.880†	168.1	0.0024 mg/L	0.00163	0.0024 mg/L	0.00163	68.91%
Zn 206.200†	33.3	0.0006 mg/L	0.00011	0.0006 mg/L	0.00011	18.07%
Zr 343.823†	107.9	0.0008 mg/L	0.00026	0.0008 mg/L	0.00026	34.83%

Batch ID: AVIO 500

Sequence No.: 13

Sample ID: B370650-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 23

Date Collected: 4/11/2024 12:51:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-BLK1

Mean Data: 2376550 DATA								
	Mean Corrected		Calib.		Sample			
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	201081.2	88.3	%	0.34	88.3	%	0.34	0.39%
Y axial	1912672.0	96.0	%	0.34	96.0	%	0.34	0.35%
Ag 328.068†	-3.9	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	17.98%

Al 396.153†	-21.3	-0.0051 mg/L	0.00659	-0.0051 mg/L	0.00659	129.24%
As 188.979†	8.4	0.0053 mg/L	0.00165	0.0053 mg/L	0.00165	31.06%
B 208.889†	57.9	0.0090 mg/L	0.00106	0.0090 mg/L	0.00106	11.71%
Ba 233.527†	12.3	0.0011 mg/L	0.00021	0.0011 mg/L	0.00021	19.10%
Be 313.107†	-252.0	-0.0004 mg/L	0.00002	-0.0004 mg/L	0.00002	3.77%
Ca 317.933†	571.3	0.0425 mg/L	0.00152	0.0425 mg/L	0.00152	3.59%
Cd 228.802†	12.3	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	62.27%
Co 228.616†	-16.7	-0.0007 mg/L	0.00014	-0.0007 mg/L	0.00014	19.06%
Cr 267.716†	53.8	0.0011 mg/L	0.00014	0.0011 mg/L	0.00014	12.05%
Cu 327.393†	1423.9	0.0259 mg/L	0.00435	0.0259 mg/L	0.00435	16.76%
Fe 238.204†	144.6	0.0180 mg/L	0.00031	0.0180 mg/L	0.00031	1.71%
K 766.490†	-175.3	-0.0313 mg/L	0.02127	-0.0313 mg/L	0.02127	68.02%
Mg 285.213†	38.4	0.0029 mg/L	0.00049	0.0029 mg/L	0.00049	17.09%
Mn 257.610†	52.8	0.0013 mg/L	0.00041	0.0013 mg/L	0.00041	32.18%
Mo 202.031†	32.5	0.0019 mg/L	0.00117	0.0019 mg/L	0.00117	60.64%
Na 589.592†	448.6	0.0439 mg/L	0.01499	0.0439 mg/L	0.01499	34.18%
Ni 231.604†	6.1	0.0002 mg/L	0.00024	0.0002 mg/L	0.00024	141.89%
Pb 220.353†	27.1	0.0044 mg/L	0.00133	0.0044 mg/L	0.00133	30.38%
Sb 206.836†	16.6	0.0067 mg/L	0.00201	0.0067 mg/L	0.00201	30.13%
Se 196.026†	18.1	0.0103 mg/L	0.00219	0.0103 mg/L	0.00219	21.24%
Sn 189.927†	243.8	0.0376 mg/L	0.00114	0.0376 mg/L	0.00114	3.03%
Ti 337.279†	6.1	0.0002 mg/L	0.00020	0.0002 mg/L	0.00020	110.58%
Tl 351.924†	-13.7	-0.0080 mg/L	0.00664	-0.0080 mg/L	0.00664	83.34%
V 290.880†	117.1	0.0016 mg/L	0.00024	0.0016 mg/L	0.00024	14.54%
Zn 206.200†	839.1	0.0157 mg/L	0.00049	0.0157 mg/L	0.00049	3.09%
Zr 343.823†	117.4	0.0008 mg/L	0.00022	0.0008 mg/L	0.00022	26.34%

Batch ID: AVIO 500

Sequence No.: 14

Sample ID: B370650-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 24

Date Collected: 4/11/2024 1:01:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	197794.5	86.9 %	0.62	86.9 %	0.62	0.71%
Y axial	1785867.4	89.6 %	0.42	89.6 %	0.42	0.46%
Ag 328.068†	32872.6	1.014 mg/L	0.0095	1.014 mg/L	0.0095	0.94%
Al 396.153†	281524.0	65.61 mg/L	0.364	65.61 mg/L	0.364	0.55%
As 188.979†	5726.0	3.653 mg/L	0.0308	3.653 mg/L	0.0308	0.84%
B 208.889†	16576.4	2.519 mg/L	0.0186	2.519 mg/L	0.0186	0.74%
Ba 233.527†	39248.4	3.440 mg/L	0.0551	3.440 mg/L	0.0551	1.60%
Be 313.107†	1199057.0	2.038 mg/L	0.0311	2.038 mg/L	0.0311	1.53%
Ca 317.933†	820483.5	60.97 mg/L	0.410	60.97 mg/L	0.410	0.67%
Cd 228.802†	63496.5	2.446 mg/L	0.0147	2.446 mg/L	0.0147	0.60%
Co 228.616†	22027.0	0.9692 mg/L	0.00938	0.9692 mg/L	0.00938	0.97%
Cr 267.716†	106581.9	2.223 mg/L	0.0148	2.223 mg/L	0.0148	0.66%
Cu 327.393†	137675.5	2.512 mg/L	0.0202	2.512 mg/L	0.0202	0.81%
Fe 238.204†	553128.9	69.03 mg/L	0.504	69.03 mg/L	0.504	0.73%
K 766.490†	73667.7	13.14 mg/L	0.047	13.14 mg/L	0.047	0.36%
Mg 285.213†	250975.5	18.91 mg/L	0.114	18.91 mg/L	0.114	0.60%
Mn 257.610†	259843.1	6.316 mg/L	0.0405	6.316 mg/L	0.0405	0.64%
Mo 202.031†	28658.0	1.705 mg/L	0.0146	1.705 mg/L	0.0146	0.86%
Na 589.592†	58275.4	5.699 mg/L	0.0182	5.699 mg/L	0.0182	0.32%
Ni 231.604†	138568.2	3.714 mg/L	0.0266	3.714 mg/L	0.0266	0.72%
Pb 220.353†	6638.2	1.083 mg/L	0.0103	1.083 mg/L	0.0103	0.95%
Sb 206.836†	2995.6	1.200 mg/L	0.0058	1.200 mg/L	0.0058	0.49%
Se 196.026†	3475.3	2.020 mg/L	0.0262	2.020 mg/L	0.0262	1.30%
Sn 189.927†	5956.2	0.9246 mg/L	0.00735	0.9246 mg/L	0.00735	0.79%
Ti 337.279†	128807.3	3.757 mg/L	0.0234	3.757 mg/L	0.0234	0.62%
Tl 351.924†	4412.9	2.581 mg/L	0.0291	2.581 mg/L	0.0291	1.13%
V 290.880†	90079.2	1.267 mg/L	0.0111	1.267 mg/L	0.0111	0.87%
Zn 206.200†	106544.7	2.004 mg/L	0.0152	2.004 mg/L	0.0152	0.76%
Zr 343.823†	12375.1	0.0834 mg/L	0.00067	0.0834 mg/L	0.00067	0.80%

Batch ID: AVIO 500

Sequence No.: 15

Sample ID: B370650-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 25

Date Collected: 4/11/2024 1:09:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	195586.5	85.9	%	1.35	85.9	%	1.57%
Y axial	1790396.4	89.9	%	0.39	89.9	%	0.43%
Ag 328.068†	28467.7	0.8782	mg/L	0.00139	0.8782	mg/L	0.16%
Al 396.153†	248820.3	57.99	mg/L	1.033	57.99	mg/L	1.78%
As 188.979†	4917.1	3.137	mg/L	0.0102	3.137	mg/L	0.32%
B 208.889†	14541.8	2.213	mg/L	0.0008	2.213	mg/L	0.04%
Ba 233.527†	33726.8	2.956	mg/L	0.0383	2.956	mg/L	1.30%
Be 313.107†	1017226.7	1.729	mg/L	0.0328	1.729	mg/L	1.90%
Ca 317.933†	700666.1	52.07	mg/L	1.016	52.07	mg/L	1.95%
Cd 228.802†	55530.0	2.141	mg/L	0.0013	2.141	mg/L	0.06%
Co 228.616†	18867.2	0.8299	mg/L	0.00043	0.8299	mg/L	0.05%
Cr 267.716†	88948.5	1.855	mg/L	0.0026	1.855	mg/L	0.14%
Cu 327.393†	117674.8	2.147	mg/L	0.0040	2.147	mg/L	0.19%
Fe 238.204†	497927.9	62.14	mg/L	1.136	62.14	mg/L	1.83%
K 766.490†	64040.4	11.43	mg/L	0.022	11.43	mg/L	0.19%
Mg 285.213†	216744.6	16.34	mg/L	0.012	16.34	mg/L	0.07%
Mn 257.610†	232469.5	5.651	mg/L	0.0116	5.651	mg/L	0.21%
Mo 202.031†	24288.8	1.445	mg/L	0.0012	1.445	mg/L	0.08%
Na 589.592†	50768.8	4.965	mg/L	0.0123	4.965	mg/L	0.25%
Ni 231.604†	118470.1	3.175	mg/L	0.0033	3.175	mg/L	0.10%
Pb 220.353†	5864.2	0.9570	mg/L	0.00299	0.9570	mg/L	0.31%
Sb 206.836†	2592.5	1.039	mg/L	0.0029	1.039	mg/L	0.28%
Se 196.026†	2981.8	1.735	mg/L	0.0053	1.735	mg/L	0.31%
Sn 189.927†	5162.4	0.8015	mg/L	0.00105	0.8015	mg/L	0.13%
Ti 337.279†	114046.8	3.327	mg/L	0.0022	3.327	mg/L	0.07%
Tl 351.924†	3939.3	2.304	mg/L	0.0073	2.304	mg/L	0.32%
V 290.880†	76461.5	1.076	mg/L	0.0025	1.076	mg/L	0.24%
Zn 206.200†	91992.0	1.730	mg/L	0.0036	1.730	mg/L	0.21%
Zr 343.823†	10837.5	0.0730	mg/L	0.00007	0.0730	mg/L	0.10%

Batch ID: AVIO 500

Sequence No.: 16

Sample ID: B370650-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 26

Date Collected: 4/11/2024 1:18:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	200728.6	88.1	%	0.60	88.1	%	0.68%
Y axial	1831832.2	92.0	%	0.23	92.0	%	0.25%
Ag 328.068†	17248.9	0.5319	mg/L	0.00787	0.5319	mg/L	1.48%
Al 396.153†	72196.2	16.82	mg/L	0.028	16.82	mg/L	0.17%
As 188.979†	777.4	0.5024	mg/L	0.00240	0.5024	mg/L	0.48%
B 208.889†	5770.7	0.8818	mg/L	0.00559	0.8818	mg/L	0.63%
Ba 233.527†	7373.6	0.6463	mg/L	0.00282	0.6463	mg/L	0.44%
Be 313.107†	291487.6	0.4945	mg/L	0.00062	0.4945	mg/L	0.13%
Ca 317.933†	101801.3	7.565	mg/L	0.0870	7.565	mg/L	1.15%
Cd 228.802†	12580.8	0.4923	mg/L	0.00347	0.4923	mg/L	0.71%
Co 228.616†	12101.5	0.5326	mg/L	0.00324	0.5326	mg/L	0.61%
Cr 267.716†	31655.5	0.6598	mg/L	0.00366	0.6598	mg/L	0.55%
Cu 327.393†	65110.8	1.187	mg/L	0.0058	1.187	mg/L	0.49%
Fe 238.204†	623776.2	77.84	mg/L	0.207	77.84	mg/L	0.27%

K 766.490†	34511.8	6.158 mg/L	0.0534	6.158 mg/L	0.0534	0.87%
Mg 285.213†	116227.0	8.798 mg/L	0.0988	8.798 mg/L	0.0988	1.12%
Mn 257.610†	258809.5	6.291 mg/L	0.0165	6.291 mg/L	0.0165	0.26%
Mo 202.031†	8552.2	0.5087 mg/L	0.00287	0.5087 mg/L	0.00287	0.56%
Na 589.592†	45710.2	4.470 mg/L	0.0051	4.470 mg/L	0.0051	0.11%
Ni 231.604†	19842.0	0.5341 mg/L	0.00283	0.5341 mg/L	0.00283	0.53%
Pb 220.353†	3503.7	0.5679 mg/L	0.00504	0.5679 mg/L	0.00504	0.89%
Sb 206.836†	1102.2	0.4427 mg/L	0.00479	0.4427 mg/L	0.00479	1.08%
Se 196.026†	813.9	0.5094 mg/L	0.00550	0.5094 mg/L	0.00550	1.08%
Sn 189.927†	3448.7	0.5346 mg/L	0.00403	0.5346 mg/L	0.00403	0.75%
Ti 337.279†	57914.7	1.689 mg/L	0.0190	1.689 mg/L	0.0190	1.13%
Tl 351.924†	903.4	0.5381 mg/L	0.00234	0.5381 mg/L	0.00234	0.43%
V 290.880†	44486.3	0.6230 mg/L	0.00469	0.6230 mg/L	0.00469	0.75%
Zn 206.200†	65090.0	1.221 mg/L	0.0057	1.221 mg/L	0.0057	0.47%
Zr 343.823†	2158.2	0.0117 mg/L	0.00021	0.0117 mg/L	0.00021	1.79%

Batch ID: AVIO 500

Sequence No.: 17

Sample ID: B370650-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 27

Date Collected: 4/11/2024 1:27:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y radial	201645.2	88.5	%	0.62	88.5	0.62	0.70%
Y axial	1858539.3	93.3	%	0.51	93.3	0.51	0.54%
Ag 328.068†	16593.8	0.5191	mg/L	0.00387	0.5191	0.00387	0.75%
Al 396.153†	82346.2	19.19	mg/L	0.042	19.19	0.042	0.22%
As 188.979†	795.7	0.5601	mg/L	0.00861	0.5601	0.00861	1.54%
B 208.889†	5635.8	0.8600	mg/L	0.00628	0.8600	0.00628	0.73%
Ba 233.527†	7048.0	0.6177	mg/L	0.00370	0.6177	0.00370	0.60%
Be 313.107†	282708.9	0.4794	mg/L	0.00096	0.4794	0.00096	0.20%
Ca 317.933†	103495.1	7.691	mg/L	0.0755	7.691	0.0755	0.98%
Cd 228.802†	12253.3	0.4788	mg/L	0.00222	0.4788	0.00222	0.46%
Co 228.616†	11822.9	0.5219	mg/L	0.00310	0.5219	0.00310	0.59%
Cr 267.716†	26619.3	0.5643	mg/L	0.00254	0.5643	0.00254	0.45%
Cu 327.393†	63080.2	1.150	mg/L	0.0057	1.150	0.0057	0.50%
Fe 238.204†	3672854.8	458.3	mg/L	1.18	458.3	1.18	0.26%
K 766.490†	24823.3	4.429	mg/L	0.0614	4.429	0.0614	1.39%
Mg 285.213†	125262.3	9.749	mg/L	0.1105	9.749	0.1105	1.13%
Mn 257.610†	278837.0	6.788	mg/L	0.0186	6.788	0.0186	0.27%
Mo 202.031†	8685.6	0.5166	mg/L	0.00228	0.5166	0.00228	0.44%
Na 589.592†	44659.0	4.367	mg/L	0.0117	4.367	0.0117	0.27%
Ni 231.604†	18579.3	0.5195	mg/L	0.00321	0.5195	0.00321	0.62%
Pb 220.353†	3506.2	0.5571	mg/L	0.00384	0.5571	0.00384	0.69%
Sb 206.836†	1082.8	0.4361	mg/L	0.00222	0.4361	0.00222	0.51%
Se 196.026†	551.0	0.6053	mg/L	0.00880	0.6053	0.00880	1.45%
Sn 189.927†	3220.2	0.4981	mg/L	0.00264	0.4981	0.00264	0.53%
Ti 337.279†	30919.3	0.9019	mg/L	0.00595	0.9019	0.00595	0.66%
Tl 351.924†	782.5	0.5428	mg/L	0.01238	0.5428	0.01238	2.28%
V 290.880†	46716.8	0.6300	mg/L	0.00405	0.6300	0.00405	0.64%
Zn 206.200†	97915.2	1.834	mg/L	0.0064	1.834	0.0064	0.35%
Zr 343.823†	3990.4	0.0082	mg/L	0.00020	0.0082	0.00020	2.44%

Batch ID: AVIO 500

Sequence No.: 18

Sample ID: B370650-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 28

Date Collected: 4/11/2024 1:36:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-PS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	192691.3	84.6	%	0.63	84.6	%	0.63	0.74%
Y axial	1775700.2	89.1	%	1.11	89.1	%	1.11	1.24%
Ag 328.068†	30.0	0.0135	mg/L	0.00082	0.0135	mg/L	0.00082	6.08%
Al 396.153†	93472.6	21.70	mg/L	0.144	21.70	mg/L	0.144	0.66%
As 188.979†	3120.2	1.986	mg/L	0.0270	1.986	mg/L	0.0270	1.36%
B 208.889†	23505.3	3.592	mg/L	0.0622	3.592	mg/L	0.0622	1.73%
Ba 233.527†	23866.6	2.092	mg/L	0.0127	2.092	mg/L	0.0127	0.61%
Be 313.107†	1187883.8	2.016	mg/L	0.0277	2.016	mg/L	0.0277	1.38%
Ca 317.933†	264539.2	19.66	mg/L	0.109	19.66	mg/L	0.109	0.56%
Cd 228.802†	50949.1	1.994	mg/L	0.0025	1.994	mg/L	0.0025	0.13%
Co 228.616†	46872.3	2.070	mg/L	0.0338	2.070	mg/L	0.0338	1.64%
Cr 267.716†	102628.5	2.140	mg/L	0.0016	2.140	mg/L	0.0016	0.07%
Cu 327.393†	229964.4	4.191	mg/L	0.0021	4.191	mg/L	0.0021	0.05%
Fe 238.204†	646477.7	80.69	mg/L	1.175	80.69	mg/L	1.175	1.46%
K 766.490†	100757.8	17.98	mg/L	0.099	17.98	mg/L	0.099	0.55%
Mg 285.213†	323705.3	24.41	mg/L	0.120	24.41	mg/L	0.120	0.49%
Mn 257.610†	323078.1	7.853	mg/L	0.0488	7.853	mg/L	0.0488	0.62%
Mo 202.031†	34773.2	2.068	mg/L	0.0044	2.068	mg/L	0.0044	0.21%
Na 589.592†	170956.8	16.72	mg/L	0.201	16.72	mg/L	0.201	1.20%
Ni 231.604†	77293.1	2.072	mg/L	0.0028	2.072	mg/L	0.0028	0.14%
Pb 220.353†	12716.1	2.065	mg/L	0.0361	2.065	mg/L	0.0361	1.75%
Sb 206.836†	5001.4	2.014	mg/L	0.0289	2.014	mg/L	0.0289	1.43%
Se 196.026†	3492.1	2.036	mg/L	0.0389	2.036	mg/L	0.0389	1.91%
Sn 189.927†	13065.6	2.020	mg/L	0.0344	2.020	mg/L	0.0344	1.70%
Ti 337.279†	102546.3	2.991	mg/L	0.0127	2.991	mg/L	0.0127	0.43%
Tl 351.924†	3736.9	2.188	mg/L	0.0241	2.188	mg/L	0.0241	1.10%
V 290.880†	154895.1	2.181	mg/L	0.0016	2.181	mg/L	0.0016	0.07%
Zn 206.200†	230088.7	4.314	mg/L	0.0169	4.314	mg/L	0.0169	0.39%
Zr 343.823†	1721.3	0.0086	mg/L	0.00019	0.0086	mg/L	0.00019	2.17%

Batch ID: AVIO 500

Sequence No.: 19

Sample ID: B370650-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 29

Date Collected: 4/11/2024 1:44:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370650-SRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	197989.0	86.9	%	0.90	86.9	%	0.90	1.03%
Y axial	2040289.9	102	%	13.71	102	%	13.71	13.38%
Ag 328.068†	-17.5	-0.0003	mg/L	0.00042	-0.0003	mg/L	0.00042	130.85%
Al 396.153†	16594.3	3.874	mg/L	0.0231	3.874	mg/L	0.0231	0.60%
As 188.979†	6.6	0.0059	mg/L	0.00239	0.0059	mg/L	0.00239	40.50%
B 208.889†	26.4	0.0041	mg/L	0.00557	0.0041	mg/L	0.00557	136.46%
Ba 233.527†	261.3	0.0229	mg/L	0.00299	0.0229	mg/L	0.00299	13.05%
Be 313.107†	77.9	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	54.76%
Ca 317.933†	8626.0	0.6410	mg/L	0.01106	0.6410	mg/L	0.01106	1.73%
Cd 228.802†	16.7	0.0006	mg/L	0.00131	0.0006	mg/L	0.00131	227.75%
Co 228.616†	105.5	0.0043	mg/L	0.00433	0.0043	mg/L	0.00433	100.01%
Cr 267.716†	283.6	0.0057	mg/L	0.00524	0.0057	mg/L	0.00524	91.53%
Cu 327.393†	376.8	0.0070	mg/L	0.00698	0.0070	mg/L	0.00698	99.85%
Fe 238.204†	104579.1	13.05	mg/L	0.059	13.05	mg/L	0.059	0.45%
K 766.490†	2847.1	0.5080	mg/L	0.01804	0.5080	mg/L	0.01804	3.55%
Mg 285.213†	22918.8	1.733	mg/L	0.0235	1.733	mg/L	0.0235	1.35%
Mn 257.610†	47991.5	1.167	mg/L	0.0013	1.167	mg/L	0.0013	0.11%
Mo 202.031†	26.2	0.0016	mg/L	0.00026	0.0016	mg/L	0.00026	16.76%
Na 589.592†	489.6	0.0479	mg/L	0.00518	0.0479	mg/L	0.00518	10.82%
Ni 231.604†	116.6	0.0036	mg/L	0.00263	0.0036	mg/L	0.00263	72.19%
Pb 220.353†	63.3	0.0102	mg/L	0.00972	0.0102	mg/L	0.00972	95.55%
Sb 206.836†	-2.0	-0.0007	mg/L	0.00551	-0.0007	mg/L	0.00551	815.66%
Se 196.026†	4.6	0.0103	mg/L	0.00358	0.0103	mg/L	0.00358	34.96%
Sn 189.927†	30.6	0.0050	mg/L	0.00471	0.0050	mg/L	0.00471	94.31%
Ti 337.279†	6205.3	0.1810	mg/L	0.00251	0.1810	mg/L	0.00251	1.39%

Tl 351.924†	-27.1	-0.0137 mg/L	0.03163	-0.0137 mg/L	0.03163	230.90%
V 290.880†	819.4	0.0109 mg/L	0.01394	0.0109 mg/L	0.01394	128.07%
Zn 206.200†	1224.6	0.0229 mg/L	0.02164	0.0229 mg/L	0.02164	94.36%
Zr 343.823†	220.5	0.0010 mg/L	0.00091	0.0010 mg/L	0.00091	92.37%

Batch ID: AVIO 500

Sequence No.: 20

Sample ID: 24D0729-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 30

Date Collected: 4/11/2024 1:54:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	189938.7	83.4 %		0.77	83.4 %	0.77	0.92%
Y axial	2115686.7	106 %		28.44	106 %	28.44	26.78%
Ag 328.068†	-6.6	0.0009 mg/L		0.00166	0.0009 mg/L	0.00166	184.59%
Al 396.153†	85995.7	20.08 mg/L		0.105	20.08 mg/L	0.105	0.52%
As 188.979†	7.0	0.0131 mg/L		0.00798	0.0131 mg/L	0.00798	60.91%
B 208.889†	16.3	0.0024 mg/L		0.00966	0.0024 mg/L	0.00966	400.10%
Ba 233.527†	1336.3	0.1171 mg/L		0.02672	0.1171 mg/L	0.02672	22.81%
Be 313.107†	653.3	0.0009 mg/L		0.00019	0.0009 mg/L	0.00019	20.68%
Ca 317.933†	44185.7	3.284 mg/L		0.0115	3.284 mg/L	0.0115	0.35%
Cd 228.802†	33.3	0.0013 mg/L		0.00392	0.0013 mg/L	0.00392	302.17%
Co 228.616†	346.7	0.0136 mg/L		0.02347	0.0136 mg/L	0.02347	173.04%
Cr 267.716†	882.4	0.0174 mg/L		0.02912	0.0174 mg/L	0.02912	167.18%
Cu 327.393†	2197.3	0.0407 mg/L		0.03663	0.0407 mg/L	0.03663	90.04%
Fe 238.204†	531773.3	66.36 mg/L		0.075	66.36 mg/L	0.075	0.11%
K 766.490†	16677.8	2.976 mg/L		0.0168	2.976 mg/L	0.0168	0.57%
Mg 285.213†	115778.9	8.757 mg/L		0.0340	8.757 mg/L	0.0340	0.39%
Mn 257.610†	245109.3	5.958 mg/L		0.0119	5.958 mg/L	0.0119	0.20%
Mo 202.031†	47.2	0.0028 mg/L		0.00231	0.0028 mg/L	0.00231	82.17%
Na 589.592†	3963.0	0.3875 mg/L		0.00967	0.3875 mg/L	0.00967	2.49%
Ni 231.604†	434.7	0.0142 mg/L		0.01735	0.0142 mg/L	0.01735	121.78%
Pb 220.353†	186.6	0.0298 mg/L		0.05086	0.0298 mg/L	0.05086	170.65%
Sb 206.836†	-2.1	-0.0002 mg/L		0.00836	-0.0002 mg/L	0.00836	>999.9%
Se 196.026†	-6.2	0.0352 mg/L		0.00759	0.0352 mg/L	0.00759	21.61%
Sn 189.927†	84.9	0.0146 mg/L		0.02146	0.0146 mg/L	0.02146	147.35%
Ti 337.279†	32329.0	0.9431 mg/L		0.00498	0.9431 mg/L	0.00498	0.53%
Tl 351.924†	-4.6	0.0081 mg/L		0.00326	0.0081 mg/L	0.00326	40.14%
V 290.880†	4381.9	0.0584 mg/L		0.05932	0.0584 mg/L	0.05932	101.60%
Zn 206.200†	3698.6	0.0693 mg/L		0.11165	0.0693 mg/L	0.11165	161.21%
Zr 343.823†	1120.5	0.0050 mg/L		0.00650	0.0050 mg/L	0.00650	130.54%

Batch ID: AVIO 500

Sequence No.: 21

Sample ID: 24D0729-09

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 31

Date Collected: 4/11/2024 2:04:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-09

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	191373.9	84.0 %		1.38	84.0 %	1.38	1.64%
Y axial	1819964.0	91.4 %		0.36	91.4 %	0.36	0.40%
Ag 328.068†	-22.7	0.0004 mg/L		0.00073	0.0004 mg/L	0.00073	208.01%
Al 396.153†	122617.5	28.62 mg/L		0.143	28.62 mg/L	0.143	0.50%
As 188.979†	10.8	0.0137 mg/L		0.00369	0.0137 mg/L	0.00369	26.90%
B 208.889†	59.6	0.0090 mg/L		0.00190	0.0090 mg/L	0.00190	21.02%
Ba 233.527†	2058.2	0.1804 mg/L		0.00095	0.1804 mg/L	0.00095	0.53%
Be 313.107†	594.6	0.0009 mg/L		0.00008	0.0009 mg/L	0.00008	8.99%
Ca 317.933†	51656.1	3.839 mg/L		0.0206	3.839 mg/L	0.0206	0.54%

Cd 228.802†	269.0	0.0107 mg/L	0.00026	0.0107 mg/L	0.00026	2.39%
Co 228.616†	565.1	0.0230 mg/L	0.00036	0.0230 mg/L	0.00036	1.56%
Cr 267.716†	1880.7	0.0402 mg/L	0.00059	0.0402 mg/L	0.00059	1.46%
Cu 327.393†	1814.0	0.0339 mg/L	0.00132	0.0339 mg/L	0.00132	3.90%
Fe 238.204†	410735.8	51.25 mg/L	0.204	51.25 mg/L	0.204	0.40%
K 766.490†	4242.3	0.7569 mg/L	0.02285	0.7569 mg/L	0.02285	3.02%
Mg 285.213†	145833.6	11.01 mg/L	0.027	11.01 mg/L	0.027	0.25%
Mn 257.610†	34256.4	0.8338 mg/L	0.01551	0.8338 mg/L	0.01551	1.86%
Mo 202.031†	109.9	0.0065 mg/L	0.00114	0.0065 mg/L	0.00114	17.41%
Na 589.592†	2233.0	0.2184 mg/L	0.00630	0.2184 mg/L	0.00630	2.89%
Ni 231.604†	816.3	0.0243 mg/L	0.00022	0.0243 mg/L	0.00022	0.90%
Pb 220.353†	420.7	0.0697 mg/L	0.00200	0.0697 mg/L	0.00200	2.86%
Sb 206.836†	1.6	0.0012 mg/L	0.00574	0.0012 mg/L	0.00574	474.63%
Se 196.026†	-25.2	0.0182 mg/L	0.00439	0.0182 mg/L	0.00439	24.15%
Sn 189.927†	231.8	0.0375 mg/L	0.00051	0.0375 mg/L	0.00051	1.36%
Ti 337.279†	38274.5	1.116 mg/L	0.0056	1.116 mg/L	0.0056	0.50%
Tl 351.924†	-2.3	0.0067 mg/L	0.00560	0.0067 mg/L	0.00560	83.88%
V 290.880†	3236.6	0.0434 mg/L	0.00037	0.0434 mg/L	0.00037	0.86%
Zn 206.200†	9329.1	0.1747 mg/L	0.00162	0.1747 mg/L	0.00162	0.93%
Zr 343.823†	5024.7	0.0329 mg/L	0.00023	0.0329 mg/L	0.00023	0.69%

Batch ID: AVIO 500

Sequence No.: 22

Sample ID: 24D0729-10

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 32

Date Collected: 4/11/2024 2:14:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190353.5	83.6 %		0.73	83.6 %	0.73	0.87%
Y axial	1752651.2	88.0 %		1.00	88.0 %	1.00	1.13%
Ag 328.068†	-395.0	-0.0044 mg/L		0.00028	-0.0044 mg/L	0.00028	6.41%
Al 396.153†	133860.8	31.20 mg/L		0.082	31.20 mg/L	0.082	0.26%
As 188.979†	19.2	0.0238 mg/L		0.00259	0.0238 mg/L	0.00259	10.89%
B 208.889†	136.5	0.0205 mg/L		0.00131	0.0205 mg/L	0.00131	6.41%
Ba 233.527†	4359.0	0.3821 mg/L		0.00804	0.3821 mg/L	0.00804	2.11%
Be 313.107†	1780.9	0.0028 mg/L		0.00013	0.0028 mg/L	0.00013	4.59%
Ca 317.933†	2351244.9	174.7 mg/L		0.22	174.7 mg/L	0.22	0.13%
Cd 228.802†	1714.6	0.0686 mg/L		0.00104	0.0686 mg/L	0.00104	1.52%
Co 228.616†	694.3	0.0277 mg/L		0.00092	0.0277 mg/L	0.00092	3.34%
Cr 267.716†	3191.1	0.0685 mg/L		0.00084	0.0685 mg/L	0.00084	1.22%
Cu 327.393†	4460.0	0.0856 mg/L		0.00125	0.0856 mg/L	0.00125	1.46%
Fe 238.204†	702918.5	87.71 mg/L		0.286	87.71 mg/L	0.286	0.33%
K 766.490†	34339.0	6.127 mg/L		0.0290	6.127 mg/L	0.0290	0.47%
Mg 285.213†	498563.4	37.52 mg/L		0.081	37.52 mg/L	0.081	0.21%
Mn 257.610†	33436.1	0.8149 mg/L		0.01035	0.8149 mg/L	0.01035	1.27%
Mo 202.031†	315.4	0.0188 mg/L		0.00047	0.0188 mg/L	0.00047	2.53%
Na 589.592†	6621.5	0.6475 mg/L		0.00994	0.6475 mg/L	0.00994	1.53%
Ni 231.604†	1696.9	0.0497 mg/L		0.00051	0.0497 mg/L	0.00051	1.03%
Pb 220.353†	965.1	0.1574 mg/L		0.00238	0.1574 mg/L	0.00238	1.51%
Sb 206.836†	9.0	0.0045 mg/L		0.00094	0.0045 mg/L	0.00094	20.79%
Se 196.026†	-68.2	0.0173 mg/L		0.00262	0.0173 mg/L	0.00262	15.16%
Sn 189.927†	180.8	0.0306 mg/L		0.00101	0.0306 mg/L	0.00101	3.32%
Ti 337.279†	59292.7	1.730 mg/L		0.0233	1.730 mg/L	0.0233	1.35%
Tl 351.924†	-19.5	0.0022 mg/L		0.00914	0.0022 mg/L	0.00914	419.01%
V 290.880†	4906.3	0.0673 mg/L		0.00228	0.0673 mg/L	0.00228	3.38%
Zn 206.200†	13745.8	0.2575 mg/L		0.00346	0.2575 mg/L	0.00346	1.34%
Zr 343.823†	4021.5	0.0243 mg/L		0.00111	0.0243 mg/L	0.00111	4.57%

Batch ID: AVIO 500

Sequence No.: 23

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Autosampler Location: 5

Date Collected: 4/11/2024 2:23:01 PM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	195843.9	86.0 %	0.36	86.0 %	0.36	0.42%
Y axial	1860949.5	93.4 %	0.76	93.4 %	0.76	0.81%
Ag 328.068†	75425.7	2.300 mg/L	0.0647	2.300 mg/L	0.0647	2.81%
QC value within limits for Ag 328.068 Recovery = 91.99%						
Al 396.153†	43537.0	9.790 mg/L	0.0251	9.790 mg/L	0.0251	0.26%
QC value within limits for Al 396.153 Recovery = 97.90%						
As 188.979†	8298.9	5.260 mg/L	0.0626	5.260 mg/L	0.0626	1.19%
QC value within limits for As 188.979 Recovery = 105.21%						
B 208.889†	31800.0	4.725 mg/L	0.0503	4.725 mg/L	0.0503	1.06%
QC value within limits for B 208.889 Recovery = 94.51%						
Ba 233.527†	52427.6	4.595 mg/L	0.0170	4.595 mg/L	0.0170	0.37%
QC value within limits for Ba 233.527 Recovery = 91.90%						
Be 313.107†	2890446.9	4.907 mg/L	0.0632	4.907 mg/L	0.0632	1.29%
QC value within limits for Be 313.107 Recovery = 98.15%						
Ca 317.933†	134135.6	9.968 mg/L	0.0328	9.968 mg/L	0.0328	0.33%
QC value within limits for Ca 317.933 Recovery = 99.68%						
Cd 228.802†	129719.5	5.070 mg/L	0.0211	5.070 mg/L	0.0211	0.42%
QC value within limits for Cd 228.802 Recovery = 101.39%						
Co 228.616†	117480.4	5.192 mg/L	0.0175	5.192 mg/L	0.0175	0.34%
QC value within limits for Co 228.616 Recovery = 103.85%						
Cr 267.716†	247867.1	5.172 mg/L	0.0182	5.172 mg/L	0.0182	0.35%
QC value within limits for Cr 267.716 Recovery = 103.45%						
Cu 327.393†	274813.5	5.035 mg/L	0.0147	5.035 mg/L	0.0147	0.29%
QC value within limits for Cu 327.393 Recovery = 100.71%						
Fe 238.204†	39010.4	4.931 mg/L	0.0307	4.931 mg/L	0.0307	0.62%
QC value within limits for Fe 238.204 Recovery = 98.62%						
K 766.490†	55027.0	9.818 mg/L	0.0319	9.818 mg/L	0.0319	0.32%
QC value within limits for K 766.490 Recovery = 98.18%						
Mg 285.213†	129441.7	9.723 mg/L	0.0326	9.723 mg/L	0.0326	0.34%
QC value within limits for Mg 285.213 Recovery = 97.23%						
Mn 257.610†	204780.5	4.976 mg/L	0.0111	4.976 mg/L	0.0111	0.22%
QC value within limits for Mn 257.610 Recovery = 99.53%						
Mo 202.031†	86551.1	5.148 mg/L	0.0207	5.148 mg/L	0.0207	0.40%
QC value within limits for Mo 202.031 Recovery = 102.97%						
Na 589.592†	102888.8	10.06 mg/L	0.008	10.06 mg/L	0.008	0.08%
QC value within limits for Na 589.592 Recovery = 100.62%						
Ni 231.604†	195619.6	5.236 mg/L	0.0203	5.236 mg/L	0.0203	0.39%
QC value within limits for Ni 231.604 Recovery = 104.73%						
Pb 220.353†	31984.5	5.200 mg/L	0.0635	5.200 mg/L	0.0635	1.22%
QC value within limits for Pb 220.353 Recovery = 104.01%						
Sb 206.836†	12741.9	5.131 mg/L	0.0609	5.131 mg/L	0.0609	1.19%
QC value within limits for Sb 206.836 Recovery = 102.61%						
Se 196.026†	9311.0	5.303 mg/L	0.0594	5.303 mg/L	0.0594	1.12%
QC value within limits for Se 196.026 Recovery = 106.07%						
Sn 189.927†	34404.6	5.315 mg/L	0.0583	5.315 mg/L	0.0583	1.10%
QC value within limits for Sn 189.927 Recovery = 106.29%						
Ti 337.279†	169332.3	4.937 mg/L	0.0138	4.937 mg/L	0.0138	0.28%
QC value within limits for Ti 337.279 Recovery = 98.75%						
Tl 351.924†	4788.8	2.866 mg/L	0.0710	2.866 mg/L	0.0710	2.48%
QC value greater than the upper limit for Tl 351.924 Recovery = 114.64%						
V 290.880†	363230.4	5.121 mg/L	0.0110	5.121 mg/L	0.0110	0.21%
QC value within limits for V 290.880 Recovery = 102.42%						
Zn 206.200†	287311.6	5.400 mg/L	0.0204	5.400 mg/L	0.0204	0.38%
QC value within limits for Zn 206.200 Recovery = 108.01%						
Zr 343.823†	750140.4	5.235 mg/L	0.0178	5.235 mg/L	0.0178	0.34%
QC value within limits for Zr 343.823 Recovery = 104.70%						
QC Failed. Continue with analysis.						

Batch ID: AVIO 500

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Autosampler Location: 1

Date Collected: 4/11/2024 2:30:57 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	198256.0	87.1 %		1.75	87.1 %	1.75	2.02%
Y axial	1843088.9	92.5 %		0.86	92.5 %	0.86	0.93%
Ag 328.068†	69.0	0.0021 mg/L		0.00024	0.0021 mg/L	0.00024	11.36%
QC value within limits for Ag 328.068			Recovery =	Not calculated			
Al 396.153†	-40.8	-0.0096 mg/L		0.01263	-0.0096 mg/L	0.01263	131.33%
QC value within limits for Al 396.153			Recovery =	Not calculated			
As 188.979†	4.8	0.0030 mg/L		0.00277	0.0030 mg/L	0.00277	91.19%
QC value within limits for As 188.979			Recovery =	Not calculated			
B 208.889†	24.3	0.0037 mg/L		0.00123	0.0037 mg/L	0.00123	32.93%
QC value within limits for B 208.889			Recovery =	Not calculated			
Ba 233.527†	4.5	0.0004 mg/L		0.00099	0.0004 mg/L	0.00099	252.71%
QC value within limits for Ba 233.527			Recovery =	Not calculated			
Be 313.107†	77.5	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	84.35%
QC value within limits for Be 313.107			Recovery =	Not calculated			
Ca 317.933†	42.1	0.0031 mg/L		0.00109	0.0031 mg/L	0.00109	34.79%
QC value within limits for Ca 317.933			Recovery =	Not calculated			
Cd 228.802†	10.7	0.0003 mg/L		0.00034	0.0003 mg/L	0.00034	101.45%
QC value within limits for Cd 228.802			Recovery =	Not calculated			
Co 228.616†	-21.2	-0.0009 mg/L		0.00012	-0.0009 mg/L	0.00012	12.76%
QC value within limits for Co 228.616			Recovery =	Not calculated			
Cr 267.716†	-1.0	-0.0000 mg/L		0.00030	-0.0000 mg/L	0.00030	>999.9%
QC value within limits for Cr 267.716			Recovery =	Not calculated			
Cu 327.393†	-139.4	-0.0025 mg/L		0.00314	-0.0025 mg/L	0.00314	123.87%
QC value within limits for Cu 327.393			Recovery =	Not calculated			
Fe 238.204†	28.0	0.0035 mg/L		0.00024	0.0035 mg/L	0.00024	6.94%
QC value within limits for Fe 238.204			Recovery =	Not calculated			
K 766.490†	-504.7	-0.0901 mg/L		0.00990	-0.0901 mg/L	0.00990	11.00%
QC value within limits for K 766.490			Recovery =	Not calculated			
Mg 285.213†	-6.1	-0.0005 mg/L		0.00110	-0.0005 mg/L	0.00110	239.66%
QC value within limits for Mg 285.213			Recovery =	Not calculated			
Mn 257.610†	-39.9	-0.0010 mg/L		0.00014	-0.0010 mg/L	0.00014	14.47%
QC value within limits for Mn 257.610			Recovery =	Not calculated			
Mo 202.031†	26.0	0.0015 mg/L		0.00010	0.0015 mg/L	0.00010	6.46%
QC value within limits for Mo 202.031			Recovery =	Not calculated			
Na 589.592†	-616.0	-0.0602 mg/L		0.01308	-0.0602 mg/L	0.01308	21.71%
QC value within limits for Na 589.592			Recovery =	Not calculated			
Ni 231.604†	-44.0	-0.0012 mg/L		0.00038	-0.0012 mg/L	0.00038	32.39%
QC value within limits for Ni 231.604			Recovery =	Not calculated			
Pb 220.353†	17.2	0.0028 mg/L		0.00289	0.0028 mg/L	0.00289	103.41%
QC value within limits for Pb 220.353			Recovery =	Not calculated			
Sb 206.836†	9.2	0.0037 mg/L		0.00432	0.0037 mg/L	0.00432	116.52%
QC value within limits for Sb 206.836			Recovery =	Not calculated			
Se 196.026†	11.7	0.0066 mg/L		0.00281	0.0066 mg/L	0.00281	42.35%
QC value within limits for Se 196.026			Recovery =	Not calculated			
Sn 189.927†	3.9	0.0006 mg/L		0.00061	0.0006 mg/L	0.00061	102.69%
QC value within limits for Sn 189.927			Recovery =	Not calculated			
Ti 337.279†	-39.7	-0.0012 mg/L		0.00034	-0.0012 mg/L	0.00034	29.42%
QC value within limits for Ti 337.279			Recovery =	Not calculated			
Tl 351.924†	-17.9	-0.0104 mg/L		0.00463	-0.0104 mg/L	0.00463	44.43%
QC value within limits for Tl 351.924			Recovery =	Not calculated			
V 290.880†	96.5	0.0014 mg/L		0.00049	0.0014 mg/L	0.00049	36.02%
QC value within limits for V 290.880			Recovery =	Not calculated			
Zn 206.200†	48.9	0.0009 mg/L		0.00021	0.0009 mg/L	0.00021	23.14%
QC value within limits for Zn 206.200			Recovery =	Not calculated			
Zr 343.823†	56.3	0.0004 mg/L		0.00035	0.0004 mg/L	0.00035	89.58%

All analyte(s) passed QC.

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Batch ID: AVIO 500

Sequence No.: 25

Sample ID: 24D0729-11

Analyst:

Autosampler Location: 33

Date Collected: 4/11/2024 2:39:00 PM

Data Type: Original

Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24D0729-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	177757.5	78.1 %		0.36	78.1 %	0.36	0.46%
Y axial	1713106.8	86.0 %		0.46	86.0 %	0.46	0.54%
Ag 328.068†	-181.0	-0.0030 mg/L		0.00141	-0.0030 mg/L	0.00141	46.35%
Al 396.153†	154546.1	36.08 mg/L		0.077	36.08 mg/L	0.077	0.21%
As 188.979†	10.8	0.0213 mg/L		0.00385	0.0213 mg/L	0.00385	18.08%
B 208.889†	78.9	0.0119 mg/L		0.00198	0.0119 mg/L	0.00198	16.59%
Ba 233.527†	1344.6	0.1179 mg/L		0.00182	0.1179 mg/L	0.00182	1.55%
Be 313.107†	1323.0	0.0020 mg/L		0.00006	0.0020 mg/L	0.00006	3.27%
Ca 317.933†	107425.9	7.983 mg/L		0.0446	7.983 mg/L	0.0446	0.56%
Cd 228.802†	72.2	0.0028 mg/L		0.00014	0.0028 mg/L	0.00014	5.10%
Co 228.616†	495.9	0.0169 mg/L		0.00044	0.0169 mg/L	0.00044	2.63%
Cr 267.716†	2705.9	0.0587 mg/L		0.00058	0.0587 mg/L	0.00058	0.99%
Cu 327.393†	3728.6	0.0697 mg/L		0.00183	0.0697 mg/L	0.00183	2.62%
Fe 238.204†	853183.7	106.5 mg/L		0.34	106.5 mg/L	0.34	0.32%
K 766.490†	18012.5	3.214 mg/L		0.0426	3.214 mg/L	0.0426	1.33%
Mg 285.213†	163336.6	12.36 mg/L		0.037	12.36 mg/L	0.037	0.30%
Mn 257.610†	45297.3	1.104 mg/L		0.0119	1.104 mg/L	0.0119	1.08%
Mo 202.031†	162.4	0.0097 mg/L		0.00088	0.0097 mg/L	0.00088	9.10%
Na 589.592†	5580.4	0.5457 mg/L		0.01600	0.5457 mg/L	0.01600	2.93%
Ni 231.604†	995.7	0.0319 mg/L		0.00061	0.0319 mg/L	0.00061	1.92%
Pb 220.353†	570.7	0.0934 mg/L		0.00243	0.0934 mg/L	0.00243	2.60%
Sb 206.836†	5.9	0.0041 mg/L		0.00474	0.0041 mg/L	0.00474	115.11%
Se 196.026†	-59.1	0.0344 mg/L		0.00083	0.0344 mg/L	0.00083	2.41%
Sn 189.927†	243.6	0.0415 mg/L		0.00026	0.0415 mg/L	0.00026	0.62%
Ti 337.279†	87317.4	2.547 mg/L		0.0057	2.547 mg/L	0.0057	0.23%
Tl 351.924†	-40.8	-0.0085 mg/L		0.00127	-0.0085 mg/L	0.00127	15.07%
V 290.880†	6031.1	0.0794 mg/L		0.00056	0.0794 mg/L	0.00056	0.70%
Zn 206.200†	11210.7	0.2100 mg/L		0.00178	0.2100 mg/L	0.00178	0.85%
Zr 343.823†	3482.1	0.0197 mg/L		0.00055	0.0197 mg/L	0.00055	2.79%

Batch ID: AVIO 500

Sequence No.: 26

Sample ID: 24D0729-12

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 34

Date Collected: 4/11/2024 2:48:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-12

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	191236.3	84.0 %		0.50	84.0 %	0.50	0.60%
Y axial	1821898.6	91.5 %		0.57	91.5 %	0.57	0.63%
Ag 328.068†	-106.5	-0.0011 mg/L		0.00113	-0.0011 mg/L	0.00113	102.47%
Al 396.153†	98190.0	22.92 mg/L		0.066	22.92 mg/L	0.066	0.29%
As 188.979†	15.7	0.0222 mg/L		0.00596	0.0222 mg/L	0.00596	26.85%
B 208.889†	69.9	0.0107 mg/L		0.00041	0.0107 mg/L	0.00041	3.86%
Ba 233.527†	1047.1	0.0918 mg/L		0.00047	0.0918 mg/L	0.00047	0.51%
Be 313.107†	1045.8	0.0016 mg/L		0.00002	0.0016 mg/L	0.00002	1.06%
Ca 317.933†	48163.0	3.579 mg/L		0.0146	3.579 mg/L	0.0146	0.41%
Cd 228.802†	2211.6	0.0884 mg/L		0.00114	0.0884 mg/L	0.00114	1.29%
Co 228.616†	355.5	0.0139 mg/L		0.00009	0.0139 mg/L	0.00009	0.62%
Cr 267.716†	4521.4	0.0966 mg/L		0.00049	0.0966 mg/L	0.00049	0.50%
Cu 327.393†	3987.2	0.0733 mg/L		0.00093	0.0733 mg/L	0.00093	1.27%
Fe 238.204†	770799.3	96.18 mg/L		0.432	96.18 mg/L	0.432	0.45%
K 766.490†	11510.3	2.054 mg/L		0.0117	2.054 mg/L	0.0117	0.57%
Mg 285.213†	85926.8	6.532 mg/L		0.0204	6.532 mg/L	0.0204	0.31%
Mn 257.610†	22214.7	0.5424 mg/L		0.00171	0.5424 mg/L	0.00171	0.32%
Mo 202.031†	109.8	0.0065 mg/L		0.00058	0.0065 mg/L	0.00058	8.89%
Na 589.592†	4983.1	0.4873 mg/L		0.01216	0.4873 mg/L	0.01216	2.50%

Ni 231.604†	960.9	0.0305 mg/L	0.00038	0.0305 mg/L	0.00038	1.24%
Pb 220.353†	522.2	0.0843 mg/L	0.00085	0.0843 mg/L	0.00085	1.01%
Sb 206.836†	21.6	0.0082 mg/L	0.00610	0.0082 mg/L	0.00610	74.80%
Se 196.026†	-50.2	0.0332 mg/L	0.00419	0.0332 mg/L	0.00419	12.64%
Sn 189.927†	239.4	0.0384 mg/L	0.00136	0.0384 mg/L	0.00136	3.53%
Ti 337.279†	32672.3	0.9531 mg/L	0.00188	0.9531 mg/L	0.00188	0.20%
Tl 351.924†	-34.7	-0.0035 mg/L	0.00665	-0.0035 mg/L	0.00665	188.90%
V 290.880†	4781.0	0.0619 mg/L	0.00101	0.0619 mg/L	0.00101	1.63%
Zn 206.200†	10000.5	0.1875 mg/L	0.00152	0.1875 mg/L	0.00152	0.81%
Zr 343.823†	2291.2	0.0119 mg/L	0.00011	0.0119 mg/L	0.00011	0.92%

Batch ID: AVIO 500

Sequence No.: 27

Sample ID: 24D0729-13

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 35

Date Collected: 4/11/2024 2:58:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-13

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190781.1	83.8 %		0.20	83.8 %	0.20	0.24%
Y axial	1891858.1	95.0 %		1.80	95.0 %	1.80	1.90%
Ag 328.068†	-6.7	0.0008 mg/L		0.00045	0.0008 mg/L	0.00045	57.93%
Al 396.153†	117542.9	27.44 mg/L		0.043	27.44 mg/L	0.043	0.16%
As 188.979†	15.9	0.0149 mg/L		0.00251	0.0149 mg/L	0.00251	16.87%
B 208.889†	69.4	0.0106 mg/L		0.00066	0.0106 mg/L	0.00066	6.17%
Ba 233.527†	1206.0	0.1057 mg/L		0.00108	0.1057 mg/L	0.00108	1.02%
Be 313.107†	677.3	0.0009 mg/L		0.00006	0.0009 mg/L	0.00006	6.57%
Ca 317.933†	74146.1	5.510 mg/L		0.0172	5.510 mg/L	0.0172	0.31%
Cd 228.802†	2774.9	0.1110 mg/L		0.00160	0.1110 mg/L	0.00160	1.44%
Co 228.616†	546.4	0.0212 mg/L		0.00069	0.0212 mg/L	0.00069	3.24%
Cr 267.716†	3318.4	0.0699 mg/L		0.00059	0.0699 mg/L	0.00059	0.85%
Cu 327.393†	5117.0	0.0943 mg/L		0.00305	0.0943 mg/L	0.00305	3.23%
Fe 238.204†	259160.8	32.34 mg/L		0.039	32.34 mg/L	0.039	0.12%
K 766.490†	11047.1	1.971 mg/L		0.0228	1.971 mg/L	0.0228	1.16%
Mg 285.213†	99504.7	7.508 mg/L		0.0047	7.508 mg/L	0.0047	0.06%
Mn 257.610†	19586.2	0.4768 mg/L		0.00161	0.4768 mg/L	0.00161	0.34%
Mo 202.031†	96.8	0.0058 mg/L		0.00065	0.0058 mg/L	0.00065	11.23%
Na 589.592†	4329.1	0.4234 mg/L		0.01437	0.4234 mg/L	0.01437	3.39%
Ni 231.604†	1410.0	0.0393 mg/L		0.00061	0.0393 mg/L	0.00061	1.56%
Pb 220.353†	870.2	0.1432 mg/L		0.00318	0.1432 mg/L	0.00318	2.22%
Sb 206.836†	5.7	0.0027 mg/L		0.00349	0.0027 mg/L	0.00349	129.06%
Se 196.026†	-12.7	0.0133 mg/L		0.00256	0.0133 mg/L	0.00256	19.24%
Sn 189.927†	228.0	0.0375 mg/L		0.00065	0.0375 mg/L	0.00065	1.73%
Ti 337.279†	52102.1	1.520 mg/L		0.0049	1.520 mg/L	0.0049	0.33%
Tl 351.924†	-25.4	-0.0116 mg/L		0.00346	-0.0116 mg/L	0.00346	29.70%
V 290.880†	4517.8	0.0624 mg/L		0.00103	0.0624 mg/L	0.00103	1.65%
Zn 206.200†	10574.6	0.1982 mg/L		0.00281	0.1982 mg/L	0.00281	1.42%
Zr 343.823†	2539.9	0.0163 mg/L		0.00035	0.0163 mg/L	0.00035	2.12%

Batch ID: AVIO 500

Sequence No.: 28

Sample ID: 24D0729-14

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 36

Date Collected: 4/11/2024 3:08:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-14

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190717.0	83.8 %		1.18	83.8 %	1.18	1.41%
Y axial	1854819.2	93.1 %		1.25	93.1 %	1.25	1.34%
Ag 328.068†	2.0	0.0011 mg/L		0.00058	0.0011 mg/L	0.00058	52.74%

Al 396.153†	87747.2	20.48 mg/L	0.073	20.48 mg/L	0.073	0.35%
As 188.979†	7.7	0.0100 mg/L	0.00043	0.0100 mg/L	0.00043	4.33%
B 208.889†	64.3	0.0098 mg/L	0.00165	0.0098 mg/L	0.00165	16.81%
Ba 233.527†	693.8	0.0608 mg/L	0.00086	0.0608 mg/L	0.00086	1.42%
Be 313.107†	426.3	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	13.83%
Ca 317.933†	76454.9	5.682 mg/L	0.0416	5.682 mg/L	0.0416	0.73%
Cd 228.802†	1923.6	0.0770 mg/L	0.00096	0.0770 mg/L	0.00096	1.24%
Co 228.616†	370.0	0.0143 mg/L	0.00019	0.0143 mg/L	0.00019	1.36%
Cr 267.716†	3403.7	0.0718 mg/L	0.00126	0.0718 mg/L	0.00126	1.75%
Cu 327.393†	3083.2	0.0569 mg/L	0.00129	0.0569 mg/L	0.00129	2.26%
Fe 238.204†	299547.5	37.38 mg/L	0.128	37.38 mg/L	0.128	0.34%
K 766.490†	9990.0	1.782 mg/L	0.0035	1.782 mg/L	0.0035	0.20%
Mg 285.213†	100453.0	7.583 mg/L	0.0092	7.583 mg/L	0.0092	0.12%
Mn 257.610†	18115.5	0.4412 mg/L	0.00608	0.4412 mg/L	0.00608	1.38%
Mo 202.031†	95.4	0.0057 mg/L	0.00061	0.0057 mg/L	0.00061	10.80%
Na 589.592†	4807.1	0.4701 mg/L	0.01291	0.4701 mg/L	0.01291	2.75%
Ni 231.604†	1083.6	0.0309 mg/L	0.00100	0.0309 mg/L	0.00100	3.23%
Pb 220.353†	268.2	0.0446 mg/L	0.00133	0.0446 mg/L	0.00133	2.98%
Sb 206.836†	13.1	0.0052 mg/L	0.00261	0.0052 mg/L	0.00261	50.26%
Se 196.026†	-13.8	0.0160 mg/L	0.00153	0.0160 mg/L	0.00153	9.59%
Sn 189.927†	236.3	0.0381 mg/L	0.00028	0.0381 mg/L	0.00028	0.74%
Ti 337.279†	35653.0	1.040 mg/L	0.0043	1.040 mg/L	0.0043	0.41%
Tl 351.924†	-28.5	-0.0115 mg/L	0.01202	-0.0115 mg/L	0.01202	104.79%
V 290.880†	3527.7	0.0481 mg/L	0.00118	0.0481 mg/L	0.00118	2.45%
Zn 206.200†	8016.8	0.1503 mg/L	0.00218	0.1503 mg/L	0.00218	1.45%
Zr 343.823†	1844.2	0.0113 mg/L	0.00019	0.0113 mg/L	0.00019	1.70%

Batch ID: AVIO 500

Sequence No.: 29

Sample ID: 24D0729-15

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 37

Date Collected: 4/11/2024 3:18:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	195326.6	85.8 %	%	1.68	85.8 %	1.68	1.96%
Y axial	1940902.2	97.4 %	%	0.24	97.4 %	0.24	0.25%
Ag 328.068†	7.4	0.0011 mg/L	mg/L	0.00051	0.0011 mg/L	0.00051	47.25%
Al 396.153†	91048.3	21.25 mg/L	mg/L	0.071	21.25 mg/L	0.071	0.33%
As 188.979†	13.3	0.0128 mg/L	mg/L	0.00285	0.0128 mg/L	0.00285	22.29%
B 208.889†	51.1	0.0077 mg/L	mg/L	0.00117	0.0077 mg/L	0.00117	15.14%
Ba 233.527†	1084.2	0.0950 mg/L	mg/L	0.00061	0.0950 mg/L	0.00061	0.64%
Be 313.107†	913.7	0.0014 mg/L	mg/L	0.00008	0.0014 mg/L	0.00008	5.73%
Ca 317.933†	43960.7	3.267 mg/L	mg/L	0.0114	3.267 mg/L	0.0114	0.35%
Cd 228.802†	1933.8	0.0773 mg/L	mg/L	0.00028	0.0773 mg/L	0.00028	0.36%
Co 228.616†	354.8	0.0132 mg/L	mg/L	0.00040	0.0132 mg/L	0.00040	3.05%
Cr 267.716†	3607.7	0.0759 mg/L	mg/L	0.00021	0.0759 mg/L	0.00021	0.28%
Cu 327.393†	4389.5	0.0808 mg/L	mg/L	0.00056	0.0808 mg/L	0.00056	0.70%
Fe 238.204†	240563.8	30.02 mg/L	mg/L	0.061	30.02 mg/L	0.061	0.20%
K 766.490†	12464.8	2.224 mg/L	mg/L	0.0501	2.224 mg/L	0.0501	2.25%
Mg 285.213†	82755.8	6.247 mg/L	mg/L	0.0121	6.247 mg/L	0.0121	0.19%
Mn 257.610†	14239.4	0.3468 mg/L	mg/L	0.00669	0.3468 mg/L	0.00669	1.93%
Mo 202.031†	104.6	0.0062 mg/L	mg/L	0.00011	0.0062 mg/L	0.00011	1.70%
Na 589.592†	3639.5	0.3559 mg/L	mg/L	0.01329	0.3559 mg/L	0.01329	3.73%
Ni 231.604†	1114.4	0.0313 mg/L	mg/L	0.00015	0.0313 mg/L	0.00015	0.47%
Pb 220.353†	582.2	0.0959 mg/L	mg/L	0.00117	0.0959 mg/L	0.00117	1.22%
Sb 206.836†	12.0	0.0049 mg/L	mg/L	0.00095	0.0049 mg/L	0.00095	19.37%
Se 196.026†	-9.8	0.0136 mg/L	mg/L	0.00179	0.0136 mg/L	0.00179	13.16%
Sn 189.927†	230.3	0.0375 mg/L	mg/L	0.00024	0.0375 mg/L	0.00024	0.64%
Ti 337.279†	43694.2	1.275 mg/L	mg/L	0.0042	1.275 mg/L	0.0042	0.33%
Tl 351.924†	-24.1	-0.0108 mg/L	mg/L	0.00321	-0.0108 mg/L	0.00321	29.65%
V 290.880†	4293.0	0.0592 mg/L	mg/L	0.00035	0.0592 mg/L	0.00035	0.60%
Zn 206.200†	17107.4	0.3204 mg/L	mg/L	0.00587	0.3204 mg/L	0.00587	1.83%
Zr 343.823†	2369.0	0.0152 mg/L	mg/L	0.00024	0.0152 mg/L	0.00024	1.56%

Batch ID: AVIO 500
 Sequence No.: 30
 Sample ID: 24D0729-16
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 200

Autosampler Location: 38
 Date Collected: 4/11/2024 3:27:47 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 24D0729-16

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	190136.7	83.5 %		0.20	83.5 %	0.20	0.24%
Y axial	1813352.3	91.0 %		1.23	91.0 %	1.23	1.35%
Ag 328.068†	-232.6	-0.0010 mg/L		0.00024	-0.0010 mg/L	0.00024	25.01%
Al 396.153†	371988.6	86.83 mg/L		0.087	86.83 mg/L	0.087	0.10%
As 188.979†	12.4	0.0383 mg/L		0.00387	0.0383 mg/L	0.00387	10.12%
B 208.889†	139.1	0.0206 mg/L		0.00329	0.0206 mg/L	0.00329	16.00%
Ba 233.527†	4331.0	0.3796 mg/L		0.00265	0.3796 mg/L	0.00265	0.70%
Be 313.107†	2704.9	0.0037 mg/L		0.00017	0.0037 mg/L	0.00017	4.59%
Ca 317.933†	445796.3	33.13 mg/L		0.080	33.13 mg/L	0.080	0.24%
Cd 228.802†	6308.8	0.2530 mg/L		0.00356	0.2530 mg/L	0.00356	1.41%
Co 228.616†	2000.4	0.0724 mg/L		0.00159	0.0724 mg/L	0.00159	2.19%
Cr 267.716†	15487.9	0.3276 mg/L		0.00465	0.3276 mg/L	0.00465	1.42%
Cu 327.393†	9944.5	0.1867 mg/L		0.00234	0.1867 mg/L	0.00234	1.25%
Fe 238.204†	1701324.7	212.3 mg/L		0.45	212.3 mg/L	0.45	0.21%
K 766.490†	80522.6	14.37 mg/L		0.044	14.37 mg/L	0.044	0.30%
Mg 285.213†	605643.0	45.71 mg/L		0.066	45.71 mg/L	0.066	0.14%
Mn 257.610†	94357.3	2.299 mg/L		0.0255	2.299 mg/L	0.0255	1.11%
Mo 202.031†	409.8	0.0244 mg/L		0.00027	0.0244 mg/L	0.00027	1.12%
Na 589.592†	13062.7	1.277 mg/L		0.0091	1.277 mg/L	0.0091	0.71%
Ni 231.604†	6046.6	0.1724 mg/L		0.00223	0.1724 mg/L	0.00223	1.29%
Pb 220.353†	844.3	0.1405 mg/L		0.00239	0.1405 mg/L	0.00239	1.70%
Sb 206.836†	-18.9	-0.0047 mg/L		0.00142	-0.0047 mg/L	0.00142	30.24%
Se 196.026†	-152.5	0.0487 mg/L		0.00141	0.0487 mg/L	0.00141	2.88%
Sn 189.927†	193.3	0.0424 mg/L		0.00053	0.0424 mg/L	0.00053	1.26%
Ti 337.279†	277824.4	8.104 mg/L		0.0107	8.104 mg/L	0.0107	0.13%
Tl 351.924†	-47.6	-0.0040 mg/L		0.00455	-0.0040 mg/L	0.00455	114.12%
V 290.880†	19261.2	0.2625 mg/L		0.00177	0.2625 mg/L	0.00177	0.67%
Zn 206.200†	40909.6	0.7669 mg/L		0.01168	0.7669 mg/L	0.01168	1.52%
Zr 343.823†	5014.9	0.0259 mg/L		0.00056	0.0259 mg/L	0.00056	2.18%

Batch ID: AVIO 500
 Sequence No.: 31
 Sample ID: 24D0729-17
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 200

Autosampler Location: 39
 Date Collected: 4/11/2024 3:36:38 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 24D0729-17

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	183695.6	80.7 %		0.84	80.7 %	0.84	1.05%
Y axial	1816787.2	91.2 %		0.46	91.2 %	0.46	0.50%
Ag 328.068†	-18.0	0.0015 mg/L		0.00047	0.0015 mg/L	0.00047	30.67%
Al 396.153†	115366.3	26.93 mg/L		0.250	26.93 mg/L	0.250	0.93%
As 188.979†	15.2	0.0177 mg/L		0.00090	0.0177 mg/L	0.00090	5.08%
B 208.889†	83.8	0.0127 mg/L		0.00100	0.0127 mg/L	0.00100	7.89%
Ba 233.527†	1808.2	0.1585 mg/L		0.00230	0.1585 mg/L	0.00230	1.45%
Be 313.107†	786.3	0.0010 mg/L		0.00008	0.0010 mg/L	0.00008	7.69%
Ca 317.933†	260335.6	19.35 mg/L		0.235	19.35 mg/L	0.235	1.21%
Cd 228.802†	7519.8	0.3012 mg/L		0.00098	0.3012 mg/L	0.00098	0.33%
Co 228.616†	566.1	0.0213 mg/L		0.00073	0.0213 mg/L	0.00073	3.44%
Cr 267.716†	8882.4	0.1865 mg/L		0.00126	0.1865 mg/L	0.00126	0.67%
Cu 327.393†	6319.4	0.1167 mg/L		0.00166	0.1167 mg/L	0.00166	1.43%
Fe 238.204†	469394.5	58.57 mg/L		0.637	58.57 mg/L	0.637	1.09%

K 766.490†	18205.1	3.248 mg/L	0.0145	3.248 mg/L	0.0145	0.45%
Mg 285.213†	172802.7	13.04 mg/L	0.118	13.04 mg/L	0.118	0.91%
Mn 257.610†	29258.6	0.7126 mg/L	0.01345	0.7126 mg/L	0.01345	1.89%
Mo 202.031†	163.8	0.0097 mg/L	0.00026	0.0097 mg/L	0.00026	2.70%
Na 589.592†	8954.4	0.8757 mg/L	0.01668	0.8757 mg/L	0.01668	1.90%
Ni 231.604†	1529.2	0.0438 mg/L	0.00036	0.0438 mg/L	0.00036	0.82%
Pb 220.353†	460.6	0.0759 mg/L	0.00217	0.0759 mg/L	0.00217	2.86%
Sb 206.836†	11.9	0.0037 mg/L	0.00399	0.0037 mg/L	0.00399	107.32%
Se 196.026†	-36.5	0.0166 mg/L	0.00418	0.0166 mg/L	0.00418	25.21%
Sn 189.927†	245.0	0.0408 mg/L	0.00043	0.0408 mg/L	0.00043	1.06%
Ti 337.279†	67042.6	1.956 mg/L	0.0207	1.956 mg/L	0.0207	1.06%
Tl 351.924†	-31.2	-0.0108 mg/L	0.00418	-0.0108 mg/L	0.00418	38.67%
V 290.880†	7272.9	0.1001 mg/L	0.00150	0.1001 mg/L	0.00150	1.50%
Zn 206.200†	23368.6	0.4381 mg/L	0.00881	0.4381 mg/L	0.00881	2.01%
Zr 343.823†	3319.0	0.0207 mg/L	0.00032	0.0207 mg/L	0.00032	1.57%

Batch ID: AVIO 500

Sequence No.: 32

Sample ID: 24D0729-18

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 40

Date Collected: 4/11/2024 3:46:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-18

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	187446.4	82.3 %		0.92	82.3 %	0.92	1.12%
Y axial	1787407.0	89.7 %		0.14	89.7 %	0.14	0.15%
Ag 328.068†	-225.6	-0.0008 mg/L		0.00079	-0.0008 mg/L	0.00079	95.83%
Al 396.153†	277368.0	64.75 mg/L		0.129	64.75 mg/L	0.129	0.20%
As 188.979†	3.1	0.0375 mg/L		0.00494	0.0375 mg/L	0.00494	13.16%
B 208.889†	91.4	0.0133 mg/L		0.00078	0.0133 mg/L	0.00078	5.89%
Ba 233.527†	3877.3	0.3398 mg/L		0.00486	0.3398 mg/L	0.00486	1.43%
Be 313.107†	1964.1	0.0028 mg/L		0.00004	0.0028 mg/L	0.00004	1.60%
Ca 317.933†	231300.0	17.19 mg/L		0.068	17.19 mg/L	0.068	0.40%
Cd 228.802†	2662.9	0.1070 mg/L		0.00058	0.1070 mg/L	0.00058	0.54%
Co 228.616†	1516.0	0.0561 mg/L		0.00109	0.0561 mg/L	0.00109	1.94%
Cr 267.716†	20044.3	0.4236 mg/L		0.00336	0.4236 mg/L	0.00336	0.79%
Cu 327.393†	19436.0	0.3577 mg/L		0.00371	0.3577 mg/L	0.00371	1.04%
Fe 238.204†	2155232.4	268.9 mg/L		0.61	268.9 mg/L	0.61	0.23%
K 766.490†	57292.0	10.22 mg/L		0.017	10.22 mg/L	0.017	0.17%
Mg 285.213†	410115.2	31.04 mg/L		0.075	31.04 mg/L	0.075	0.24%
Mn 257.610†	128686.6	3.134 mg/L		0.0089	3.134 mg/L	0.0089	0.28%
Mo 202.031†	341.8	0.0203 mg/L		0.00050	0.0203 mg/L	0.00050	2.44%
Na 589.592†	8080.9	0.7903 mg/L		0.02007	0.7903 mg/L	0.02007	2.54%
Ni 231.604†	3724.4	0.1129 mg/L		0.00060	0.1129 mg/L	0.00060	0.54%
Pb 220.353†	855.0	0.1377 mg/L		0.00106	0.1377 mg/L	0.00106	0.77%
Sb 206.836†	31.4	0.0113 mg/L		0.00431	0.0113 mg/L	0.00431	38.24%
Se 196.026†	-167.5	0.0762 mg/L		0.00712	0.0762 mg/L	0.00712	9.35%
Sn 189.927†	231.8	0.0444 mg/L		0.00150	0.0444 mg/L	0.00150	3.37%
Ti 337.279†	191036.1	5.573 mg/L		0.0079	5.573 mg/L	0.0079	0.14%
Tl 351.924†	-49.2	0.0116 mg/L		0.00774	0.0116 mg/L	0.00774	66.57%
V 290.880†	11683.7	0.1505 mg/L		0.00388	0.1505 mg/L	0.00388	2.58%
Zn 206.200†	22465.6	0.4224 mg/L		0.00373	0.4224 mg/L	0.00373	0.88%
Zr 343.823†	4563.2	0.0203 mg/L		0.00076	0.0203 mg/L	0.00076	3.76%

Batch ID: AVIO 500

Sequence No.: 33

Sample ID: 24D0729-19

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 41

Date Collected: 4/11/2024 3:55:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-19

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	172681.5	75.8	%	0.37	75.8	%	0.37	0.49%
Y axial	1720692.8	86.4	%	1.19	86.4	%	1.19	1.38%
Ag 328.068†	-37.0	0.0010	mg/L	0.00025	0.0010	mg/L	0.00025	25.33%
Al 396.153†	78464.4	18.32	mg/L	0.106	18.32	mg/L	0.106	0.58%
As 188.979†	0.7	0.0126	mg/L	0.00313	0.0126	mg/L	0.00313	24.79%
B 208.889†	48.2	0.0073	mg/L	0.00131	0.0073	mg/L	0.00131	18.03%
Ba 233.527†	807.6	0.0708	mg/L	0.00107	0.0708	mg/L	0.00107	1.52%
Be 313.107†	640.3	0.0009	mg/L	0.00006	0.0009	mg/L	0.00006	7.08%
Ca 317.933†	34378.8	2.555	mg/L	0.0180	2.555	mg/L	0.0180	0.70%
Cd 228.802†	29.1	0.0012	mg/L	0.00058	0.0012	mg/L	0.00058	48.03%
Co 228.616†	229.6	0.0083	mg/L	0.00043	0.0083	mg/L	0.00043	5.17%
Cr 267.716†	3496.0	0.0753	mg/L	0.00115	0.0753	mg/L	0.00115	1.53%
Cu 327.393†	3725.2	0.0686	mg/L	0.00177	0.0686	mg/L	0.00177	2.58%
Fe 238.204†	769664.4	96.04	mg/L	0.744	96.04	mg/L	0.744	0.77%
K 766.490†	7767.4	1.386	mg/L	0.0171	1.386	mg/L	0.0171	1.23%
Mg 285.213†	60552.4	4.623	mg/L	0.0296	4.623	mg/L	0.0296	0.64%
Mn 257.610†	13676.5	0.3349	mg/L	0.00247	0.3349	mg/L	0.00247	0.74%
Mo 202.031†	96.1	0.0057	mg/L	0.00034	0.0057	mg/L	0.00034	5.89%
Na 589.592†	3165.5	0.3096	mg/L	0.01400	0.3096	mg/L	0.01400	4.52%
Ni 231.604†	603.9	0.0210	mg/L	0.00033	0.0210	mg/L	0.00033	1.55%
Pb 220.353†	561.7	0.0902	mg/L	0.00254	0.0902	mg/L	0.00254	2.82%
Sb 206.836†	14.8	0.0058	mg/L	0.00252	0.0058	mg/L	0.00252	43.52%
Se 196.026†	-53.9	0.0311	mg/L	0.00251	0.0311	mg/L	0.00251	8.06%
Sn 189.927†	300.5	0.0479	mg/L	0.00021	0.0479	mg/L	0.00021	0.44%
Ti 337.279†	33407.3	0.9745	mg/L	0.00655	0.9745	mg/L	0.00655	0.67%
Tl 351.924†	-48.1	-0.0115	mg/L	0.00694	-0.0115	mg/L	0.00694	60.42%
V 290.880†	4268.5	0.0545	mg/L	0.00103	0.0545	mg/L	0.00103	1.89%
Zn 206.200†	5143.6	0.0966	mg/L	0.00136	0.0966	mg/L	0.00136	1.41%
Zr 343.823†	2115.0	0.0107	mg/L	0.00028	0.0107	mg/L	0.00028	2.61%

Batch ID: AVIO 500

Sequence No.: 34

Sample ID: 24D0729-20

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 42

Date Collected: 4/11/2024 4:05:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-20

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	174439.3	76.6	%	0.57	76.6	%	0.57	0.74%
Y axial	1742777.7	87.5	%	1.09	87.5	%	1.09	1.25%
Ag 328.068†	-34.5	0.0005	mg/L	0.00140	0.0005	mg/L	0.00140	258.68%
Al 396.153†	104324.9	24.35	mg/L	0.064	24.35	mg/L	0.064	0.26%
As 188.979†	21.8	0.0228	mg/L	0.00297	0.0228	mg/L	0.00297	13.00%
B 208.889†	68.1	0.0103	mg/L	0.00164	0.0103	mg/L	0.00164	15.87%
Ba 233.527†	1820.8	0.1596	mg/L	0.00272	0.1596	mg/L	0.00272	1.70%
Be 313.107†	603.9	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	4.09%
Ca 317.933†	91601.2	6.807	mg/L	0.0308	6.807	mg/L	0.0308	0.45%
Cd 228.802†	154.5	0.0059	mg/L	0.00056	0.0059	mg/L	0.00056	9.42%
Co 228.616†	502.5	0.0205	mg/L	0.00059	0.0205	mg/L	0.00059	2.87%
Cr 267.716†	5300.5	0.1111	mg/L	0.00218	0.1111	mg/L	0.00218	1.96%
Cu 327.393†	5744.3	0.1054	mg/L	0.00336	0.1054	mg/L	0.00336	3.19%
Fe 238.204†	562213.7	70.15	mg/L	0.190	70.15	mg/L	0.190	0.27%
K 766.490†	10429.5	1.861	mg/L	0.0503	1.861	mg/L	0.0503	2.70%
Mg 285.213†	93106.7	7.053	mg/L	0.0068	7.053	mg/L	0.0068	0.10%
Mn 257.610†	114693.2	2.789	mg/L	0.0027	2.789	mg/L	0.0027	0.10%
Mo 202.031†	126.8	0.0075	mg/L	0.00085	0.0075	mg/L	0.00085	11.21%
Na 589.592†	4559.2	0.4459	mg/L	0.00913	0.4459	mg/L	0.00913	2.05%
Ni 231.604†	1047.3	0.0312	mg/L	0.00036	0.0312	mg/L	0.00036	1.14%
Pb 220.353†	1257.1	0.2042	mg/L	0.00374	0.2042	mg/L	0.00374	1.83%
Sb 206.836†	11.7	0.0039	mg/L	0.00220	0.0039	mg/L	0.00220	56.14%
Se 196.026†	-33.3	0.0244	mg/L	0.00113	0.0244	mg/L	0.00113	4.63%
Sn 189.927†	269.1	0.0430	mg/L	0.00129	0.0430	mg/L	0.00129	3.00%
Ti 337.279†	32651.6	0.9525	mg/L	0.00986	0.9525	mg/L	0.00986	1.03%

Mean Corrected		Calib.		Sample				
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	198627.5	87.2	%	1.53	87.2	%	1.53	1.75%
Y axial	1913135.6	96.0	%	0.23	96.0	%	0.23	0.24%
Ag 328.068†	69013.4	2.103	mg/L	0.0579	2.103	mg/L	0.0579	2.75%
QC value	less than the lower limit	for Ag 328.068	Recovery = 84.10%					
Al 396.153†	43863.8	9.862	mg/L	0.0461	9.862	mg/L	0.0461	0.47%
QC value	within limits	for Al 396.153	Recovery = 98.62%					
As 188.979†	8474.3	5.372	mg/L	0.0521	5.372	mg/L	0.0521	0.97%
QC value	within limits	for As 188.979	Recovery = 107.44%					
B 208.889†	31412.2	4.663	mg/L	0.0578	4.663	mg/L	0.0578	1.24%
QC value	within limits	for B 208.889	Recovery = 93.25%					
Ba 233.527†	51964.4	4.555	mg/L	0.0772	4.555	mg/L	0.0772	1.69%
QC value	within limits	for Ba 233.527	Recovery = 91.09%					
Be 313.107†	2763075.3	4.690	mg/L	0.0742	4.690	mg/L	0.0742	1.58%
QC value	within limits	for Be 313.107	Recovery = 93.81%					
Ca 317.933†	134589.1	10.00	mg/L	0.042	10.00	mg/L	0.042	0.42%
QC value	within limits	for Ca 317.933	Recovery = 100.02%					
Cd 228.802†	130667.8	5.104	mg/L	0.0150	5.104	mg/L	0.0150	0.29%
QC value	within limits	for Cd 228.802	Recovery = 102.09%					
Co 228.616†	117037.8	5.173	mg/L	0.0189	5.173	mg/L	0.0189	0.37%
QC value	within limits	for Co 228.616	Recovery = 103.46%					
Cr 267.716†	248615.4	5.188	mg/L	0.0114	5.188	mg/L	0.0114	0.22%
QC value	within limits	for Cr 267.716	Recovery = 103.76%					
Cu 327.393†	270071.4	4.950	mg/L	0.0066	4.950	mg/L	0.0066	0.13%
QC value	within limits	for Cu 327.393	Recovery = 99.00%					
Fe 238.204†	38730.7	4.896	mg/L	0.0122	4.896	mg/L	0.0122	0.25%
QC value	within limits	for Fe 238.204	Recovery = 97.91%					
K 766.490†	53214.8	9.494	mg/L	0.0149	9.494	mg/L	0.0149	0.16%
QC value	within limits	for K 766.490	Recovery = 94.94%					
Mg 285.213†	127487.6	9.575	mg/L	0.0105	9.575	mg/L	0.0105	0.11%
QC value	within limits	for Mg 285.213	Recovery = 95.75%					
Mn 257.610†	199556.6	4.849	mg/L	0.0111	4.849	mg/L	0.0111	0.23%
QC value	within limits	for Mn 257.610	Recovery = 96.99%					
Mo 202.031†	87005.3	5.175	mg/L	0.0163	5.175	mg/L	0.0163	0.31%
QC value	within limits	for Mo 202.031	Recovery = 103.51%					
Na 589.592†	100431.2	9.821	mg/L	0.0111	9.821	mg/L	0.0111	0.11%
QC value	within limits	for Na 589.592	Recovery = 98.21%					
Ni 231.604†	197126.8	5.277	mg/L	0.0130	5.277	mg/L	0.0130	0.25%
QC value	within limits	for Ni 231.604	Recovery = 105.53%					
Pb 220.353†	30664.2	4.986	mg/L	0.0666	4.986	mg/L	0.0666	1.34%
QC value	within limits	for Pb 220.353	Recovery = 99.73%					
Sb 206.836†	12607.4	5.077	mg/L	0.0729	5.077	mg/L	0.0729	1.44%
QC value	within limits	for Sb 206.836	Recovery = 101.53%					
Se 196.026†	9205.5	5.243	mg/L	0.0882	5.243	mg/L	0.0882	1.68%
QC value	within limits	for Se 196.026	Recovery = 104.87%					
Sn 189.927†	34788.9	5.374	mg/L	0.0778	5.374	mg/L	0.0778	1.45%
QC value	within limits	for Sn 189.927	Recovery = 107.48%					
Ti 337.279†	166158.8	4.845	mg/L	0.0085	4.845	mg/L	0.0085	0.18%
QC value	within limits	for Ti 337.279	Recovery = 96.90%					
Tl 351.924†	4946.0	2.961	mg/L	0.0632	2.961	mg/L	0.0632	2.13%
QC value	greater than the upper limit	for Tl 351.924	Recovery = 118.44%					
V 290.880†	364006.5	5.132	mg/L	0.0067	5.132	mg/L	0.0067	0.13%
QC value	within limits	for V 290.880	Recovery = 102.63%					

Zn 206.200† 293600.9 5.518 mg/L 0.0220 5.518 mg/L 0.0220 0.40%
 QC value greater than the upper limit for Zn 206.200 Recovery = 110.36%
 Zr 343.823† 776180.9 5.417 mg/L 0.0032 5.417 mg/L 0.0032 0.06%
 QC value within limits for Zr 343.823 Recovery = 108.33%
 QC Failed. Continue with analysis.

Batch ID: AVIO 500

Sequence No.: 36

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 4:22:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	202056.3	88.7 %	0.82	88.7 %	0.82	0.92%
Y axial	1968232.7	98.8 %	0.47	98.8 %	0.47	0.47%
Ag 328.068†	102.7	0.0031 mg/L	0.00135	0.0031 mg/L	0.00135	42.99%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	3.0	0.0006 mg/L	0.00563	0.0006 mg/L	0.00563	958.40%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	7.6	0.0049 mg/L	0.00576	0.0049 mg/L	0.00576	118.52%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	22.3	0.0034 mg/L	0.00145	0.0034 mg/L	0.00145	42.43%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	8.0	0.0007 mg/L	0.00037	0.0007 mg/L	0.00037	52.54%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-138.5	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006	23.46%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	33.5	0.0025 mg/L	0.00124	0.0025 mg/L	0.00124	49.95%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-5.1	-0.0003 mg/L	0.00046	-0.0003 mg/L	0.00046	135.01%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-17.5	-0.0008 mg/L	0.00036	-0.0008 mg/L	0.00036	46.41%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	12.0	0.0003 mg/L	0.00038	0.0003 mg/L	0.00038	149.21%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-91.3	-0.0017 mg/L	0.00120	-0.0017 mg/L	0.00120	72.44%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	41.5	0.0052 mg/L	0.00087	0.0052 mg/L	0.00087	16.81%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	-723.0	-0.1290 mg/L	0.00184	-0.1290 mg/L	0.00184	1.43%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-17.2	-0.0013 mg/L	0.00055	-0.0013 mg/L	0.00055	43.02%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-19.2	-0.0005 mg/L	0.00027	-0.0005 mg/L	0.00027	57.21%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	31.1	0.0018 mg/L	0.00057	0.0018 mg/L	0.00057	31.02%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-607.6	-0.0594 mg/L	0.00253	-0.0594 mg/L	0.00253	4.25%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-34.5	-0.0009 mg/L	0.00028	-0.0009 mg/L	0.00028	30.65%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	2.8	0.0005 mg/L	0.00085	0.0005 mg/L	0.00085	184.83%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	3.6	0.0015 mg/L	0.00253	0.0015 mg/L	0.00253	169.87%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.8	0.0016 mg/L	0.00294	0.0016 mg/L	0.00294	181.31%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	5.2	0.0008 mg/L	0.00031	0.0008 mg/L	0.00031	38.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-61.6	-0.0018 mg/L	0.00002	-0.0018 mg/L	0.00002	0.85%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	4.0	0.0023 mg/L	0.00252	0.0023 mg/L	0.00252	107.85%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	66.5	0.0009 mg/L	0.00048	0.0009 mg/L	0.00048	51.76%

QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 5.6 0.0001 mg/L 0.00014 0.0001 mg/L 0.00014 123.19%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 39.2 0.0003 mg/L 0.00074 0.0003 mg/L 0.00074 270.76%
 All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 37

Sample ID: 24D0735-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 43

Date Collected: 4/11/2024 4:30:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	185654.0	81.5 %		1.11	81.5 %	1.11	1.36%
Y axial	1800346.9	90.4 %		0.89	90.4 %	0.89	0.99%
Ag 328.068†	13.7	0.0028 mg/L		0.00180	0.0028 mg/L	0.00180	63.05%
Al 396.153†	114353.1	26.69 mg/L		0.078	26.69 mg/L	0.078	0.29%
As 188.979†	14.8	0.0220 mg/L		0.00158	0.0220 mg/L	0.00158	7.19%
B 208.889†	80.4	0.0123 mg/L		0.00019	0.0123 mg/L	0.00019	1.56%
Ba 233.527†	1248.0	0.1094 mg/L		0.00134	0.1094 mg/L	0.00134	1.23%
Be 313.107†	1054.9	0.0013 mg/L		0.00009	0.0013 mg/L	0.00009	6.80%
Ca 317.933†	82014.6	6.095 mg/L		0.0093	6.095 mg/L	0.0093	0.15%
Cd 228.802†	54.1	0.0020 mg/L		0.00034	0.0020 mg/L	0.00034	16.86%
Co 228.616†	567.3	0.0221 mg/L		0.00074	0.0221 mg/L	0.00074	3.35%
Cr 267.716†	2911.6	0.0626 mg/L		0.00088	0.0626 mg/L	0.00088	1.40%
Cu 327.393†	6774.3	0.1246 mg/L		0.00158	0.1246 mg/L	0.00158	1.27%
Fe 238.204†	771741.8	96.30 mg/L		0.035	96.30 mg/L	0.035	0.04%
K 766.490†	8546.1	1.525 mg/L		0.0272	1.525 mg/L	0.0272	1.78%
Mg 285.213†	102445.9	7.774 mg/L		0.0306	7.774 mg/L	0.0306	0.39%
Mn 257.610†	61475.8	1.496 mg/L		0.0020	1.496 mg/L	0.0020	0.13%
Mo 202.031†	118.5	0.0071 mg/L		0.00114	0.0071 mg/L	0.00114	16.24%
Na 589.592†	8071.2	0.7893 mg/L		0.00330	0.7893 mg/L	0.00330	0.42%
Ni 231.604†	1552.2	0.0463 mg/L		0.00005	0.0463 mg/L	0.00005	0.10%
Pb 220.353†	818.5	0.1327 mg/L		0.00225	0.1327 mg/L	0.00225	1.70%
Sb 206.836†	14.2	0.0064 mg/L		0.00031	0.0064 mg/L	0.00031	4.78%
Se 196.026†	-55.7	0.0295 mg/L		0.00693	0.0295 mg/L	0.00693	23.51%
Sn 189.927†	295.6	0.0480 mg/L		0.00092	0.0480 mg/L	0.00092	1.91%
Ti 337.279†	52374.2	1.528 mg/L		0.0043	1.528 mg/L	0.0043	0.28%
Tl 351.924†	-37.5	-0.0063 mg/L		0.01031	-0.0063 mg/L	0.01031	163.26%
V 290.880†	9572.7	0.1295 mg/L		0.00250	0.1295 mg/L	0.00250	1.93%
Zn 206.200†	14437.4	0.2704 mg/L		0.00338	0.2704 mg/L	0.00338	1.25%
Zr 343.823†	3897.9	0.0231 mg/L		0.00109	0.0231 mg/L	0.00109	4.73%

Batch ID: AVIO 500

Sequence No.: 38

Sample ID: 24D0735-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 44

Date Collected: 4/11/2024 4:40:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	181233.5	79.6 %		0.77	79.6 %	0.77	0.97%
Y axial	1795812.3	90.1 %		0.75	90.1 %	0.75	0.83%
Ag 328.068†	14.8	0.0030 mg/L		0.00021	0.0030 mg/L	0.00021	6.89%
Al 396.153†	106119.0	24.76 mg/L		0.111	24.76 mg/L	0.111	0.45%
As 188.979†	18.7	0.0188 mg/L		0.00538	0.0188 mg/L	0.00538	28.53%
B 208.889†	101.1	0.0153 mg/L		0.00163	0.0153 mg/L	0.00163	10.66%
Ba 233.527†	1613.9	0.1415 mg/L		0.00133	0.1415 mg/L	0.00133	0.94%
Be 313.107†	912.9	0.0012 mg/L		0.00002	0.0012 mg/L	0.00002	1.76%

Ca 317.933†	482902.1	35.89 mg/L	0.154	35.89 mg/L	0.154	0.43%
Cd 228.802†	6949.6	0.2783 mg/L	0.00141	0.2783 mg/L	0.00141	0.51%
Co 228.616†	509.5	0.0196 mg/L	0.00094	0.0196 mg/L	0.00094	4.80%
Cr 267.716†	7791.5	0.1636 mg/L	0.00094	0.1636 mg/L	0.00094	0.57%
Cu 327.393†	5714.9	0.1058 mg/L	0.00069	0.1058 mg/L	0.00069	0.65%
Fe 238.204†	413588.9	51.61 mg/L	0.169	51.61 mg/L	0.169	0.33%
K 766.490†	16732.6	2.985 mg/L	0.0360	2.985 mg/L	0.0360	1.21%
Mg 285.213†	299189.1	22.54 mg/L	0.094	22.54 mg/L	0.094	0.42%
Mn 257.610†	22788.8	0.5552 mg/L	0.00623	0.5552 mg/L	0.00623	1.12%
Mo 202.031†	203.7	0.0121 mg/L	0.00096	0.0121 mg/L	0.00096	7.96%
Na 589.592†	7322.6	0.7161 mg/L	0.00277	0.7161 mg/L	0.00277	0.39%
Ni 231.604†	1663.4	0.0471 mg/L	0.00026	0.0471 mg/L	0.00026	0.56%
Pb 220.353†	452.2	0.0745 mg/L	0.00140	0.0745 mg/L	0.00140	1.88%
Sb 206.836†	20.2	0.0071 mg/L	0.00270	0.0071 mg/L	0.00270	38.01%
Se 196.026†	-26.7	0.0178 mg/L	0.00478	0.0178 mg/L	0.00478	26.88%
Sn 189.927†	237.0	0.0389 mg/L	0.00060	0.0389 mg/L	0.00060	1.53%
Ti 337.279†	52261.8	1.525 mg/L	0.0108	1.525 mg/L	0.0108	0.71%
Tl 351.924†	-31.0	-0.0111 mg/L	0.00526	-0.0111 mg/L	0.00526	47.30%
V 290.880†	7291.7	0.1018 mg/L	0.00160	0.1018 mg/L	0.00160	1.57%
Zn 206.200†	25025.6	0.4690 mg/L	0.00747	0.4690 mg/L	0.00747	1.59%
Zr 343.823†	3145.0	0.0197 mg/L	0.00097	0.0197 mg/L	0.00097	4.90%

Batch ID: AVIO 500

Sequence No.: 39

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 7

Date Collected: 4/11/2024 4:50:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	208614.1	91.6	%	0.73	91.6	%	0.73	0.80%
Y axial	2051779.1	103	%	0.59	103	%	0.59	0.57%
Ag 328.068†	21.2	0.0006	mg/L	0.00107	0.0006	mg/L	0.00107	165.32%
Al 396.153†	24.2	0.0056	mg/L	0.00238	0.0056	mg/L	0.00238	42.75%
As 188.979†	2.3	0.0014	mg/L	0.00146	0.0014	mg/L	0.00146	101.24%
B 208.889†	-12.0	-0.0020	mg/L	0.00136	-0.0020	mg/L	0.00136	69.46%
Ba 233.527†	1.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	12.88%
Be 313.107†	-218.5	-0.0004	mg/L	0.00005	-0.0004	mg/L	0.00005	14.26%
Ca 317.933†	142.1	0.0106	mg/L	0.00145	0.0106	mg/L	0.00145	13.73%
Cd 228.802†	-15.2	-0.0007	mg/L	0.00034	-0.0007	mg/L	0.00034	51.19%
Co 228.616†	-23.4	-0.0010	mg/L	0.00058	-0.0010	mg/L	0.00058	56.37%
Cr 267.716†	17.7	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	36.72%
Cu 327.393†	-169.7	-0.0031	mg/L	0.00107	-0.0031	mg/L	0.00107	34.63%
Fe 238.204†	125.2	0.0156	mg/L	0.00066	0.0156	mg/L	0.00066	4.22%
K 766.490†	-560.8	-0.1001	mg/L	0.01405	-0.1001	mg/L	0.01405	14.04%
Mg 285.213†	9.9	0.0008	mg/L	0.00049	0.0008	mg/L	0.00049	65.48%
Mn 257.610†	-21.8	-0.0005	mg/L	0.00022	-0.0005	mg/L	0.00022	42.25%
Mo 202.031†	19.0	0.0011	mg/L	0.00009	0.0011	mg/L	0.00009	8.01%
Na 589.592†	-806.6	-0.0789	mg/L	0.00881	-0.0789	mg/L	0.00881	11.17%
Ni 231.604†	-24.2	-0.0006	mg/L	0.00050	-0.0006	mg/L	0.00050	77.73%
Pb 220.353†	-0.6	-0.0001	mg/L	0.00128	-0.0001	mg/L	0.00128	>999.9%
Sb 206.836†	-0.3	-0.0001	mg/L	0.00296	-0.0001	mg/L	0.00296	>999.9%
Se 196.026†	2.2	0.0013	mg/L	0.00582	0.0013	mg/L	0.00582	463.34%
Sn 189.927†	5.0	0.0008	mg/L	0.00042	0.0008	mg/L	0.00042	55.32%
Ti 337.279†	-24.9	-0.0007	mg/L	0.00092	-0.0007	mg/L	0.00092	126.98%
Tl 351.924†	-0.4	-0.0002	mg/L	0.01077	-0.0002	mg/L	0.01077	>999.9%
V 290.880†	41.5	0.0006	mg/L	0.00029	0.0006	mg/L	0.00029	50.22%
Zn 206.200†	-49.7	-0.0009	mg/L	0.00015	-0.0009	mg/L	0.00015	16.64%
Zr 343.823†	36.6	0.0003	mg/L	0.00017	0.0003	mg/L	0.00017	68.35%

Batch ID: AVIO 500

Sequence No.: 40

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Autosampler Location: 11

Date Collected: 4/11/2024 4:58:26 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 100

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	185740.1	81.6 %	0.30	81.6 %	0.30	0.37%
Y axial	1966887.5	98.7 %	24.05	98.7 %	24.05	24.36%
Ag 328.068†	-16.6	0.0094 mg/L	0.00081	0.0094 mg/L	0.00081	8.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	1064503.5	248.5 mg/L	1.27	248.5 mg/L	1.27	0.51%
QC value within limits for Al 396.153 Recovery = 99.38%						
As 188.979†	-7.6	0.0066 mg/L	0.00523	0.0066 mg/L	0.00523	79.40%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-15.2	-0.0035 mg/L	0.00125	-0.0035 mg/L	0.00125	35.82%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	82.8	0.0073 mg/L	0.00176	0.0073 mg/L	0.00176	24.22%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	137.3	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	16.00%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	3255668.7	241.9 mg/L	1.29	241.9 mg/L	1.29	0.53%
QC value within limits for Ca 317.933 Recovery = 96.78%						
Cd 228.802†	-16.7	-0.0005 mg/L	0.00048	-0.0005 mg/L	0.00048	89.19%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-27.3	-0.0012 mg/L	0.00101	-0.0012 mg/L	0.00101	85.30%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	135.9	0.0052 mg/L	0.00313	0.0052 mg/L	0.00313	59.73%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-461.4	-0.0040 mg/L	0.00588	-0.0040 mg/L	0.00588	146.28%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	758301.4	94.62 mg/L	0.480	94.62 mg/L	0.480	0.51%
QC value within limits for Fe 238.204 Recovery = 94.62%						
K 766.490†	-466.3	-0.0832 mg/L	0.01021	-0.0832 mg/L	0.01021	12.27%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	2979489.1	224.2 mg/L	1.25	224.2 mg/L	1.25	0.56%
QC value within limits for Mg 285.213 Recovery = 89.66%						
Mn 257.610†	-269.0	-0.0040 mg/L	0.00016	-0.0040 mg/L	0.00016	4.12%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	321.7	0.0191 mg/L	0.01754	0.0191 mg/L	0.01754	91.67%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-120.1	-0.0117 mg/L	0.00905	-0.0117 mg/L	0.00905	77.07%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-156.3	0.0006 mg/L	0.00493	0.0006 mg/L	0.00493	804.91%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-60.2	0.0124 mg/L	0.00866	0.0124 mg/L	0.00866	69.58%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-1.2	-0.0002 mg/L	0.00645	-0.0002 mg/L	0.00645	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-35.1	0.0412 mg/L	0.02234	0.0412 mg/L	0.02234	54.25%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-26.8	-0.0041 mg/L	0.00359	-0.0041 mg/L	0.00359	86.84%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-78.2	-0.0023 mg/L	0.00070	-0.0023 mg/L	0.00070	30.47%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-24.2	0.0042 mg/L	0.00798	0.0042 mg/L	0.00798	188.50%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-1044.8	0.0021 mg/L	0.00771	0.0021 mg/L	0.00771	363.34%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-56.5	-0.0010 mg/L	0.00105	-0.0010 mg/L	0.00105	100.54%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	400.2	-0.0013 mg/L	0.00201	-0.0013 mg/L	0.00201	159.95%
QC Failed. Continue with analysis.						

=====

Batch ID: AVIO 500

Sequence No.: 41

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Autosampler Location: 12

Date Collected: 4/11/2024 5:06:31 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 100

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	190497.0	83.7 %	1.34	83.7 %	1.34	1.61%
Y axial	1694710.6	85.1 %	0.18	85.1 %	0.18	0.21%
Ag 328.068†	12699.5	0.4032 mg/L	0.00634	0.4032 mg/L	0.00634	1.57%
QC value within limits for Ag 328.068		Recovery = 100.80%				
Al 396.153†	1048785.6	244.8 mg/L	0.60	244.8 mg/L	0.60	0.24%
QC value within limits for Al 396.153		Recovery = 97.91%				
As 188.979†	313.1	0.2091 mg/L	0.00301	0.2091 mg/L	0.00301	1.44%
QC value within limits for As 188.979		Recovery = 104.56%				
B 208.889†	-3.4	-0.0026 mg/L	0.00235	-0.0026 mg/L	0.00235	91.16%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	10817.8	0.9482 mg/L	0.01511	0.9482 mg/L	0.01511	1.59%
QC value within limits for Ba 233.527		Recovery = 94.82%				
Be 313.107†	560865.1	0.9522 mg/L	0.00245	0.9522 mg/L	0.00245	0.26%
QC value within limits for Be 313.107		Recovery = 95.22%				
Ca 317.933†	3216208.8	239.0 mg/L	0.96	239.0 mg/L	0.96	0.40%
QC value within limits for Ca 317.933		Recovery = 95.60%				
Cd 228.802†	50500.0	2.021 mg/L	0.0183	2.021 mg/L	0.0183	0.91%
QC value within limits for Cd 228.802		Recovery = 101.07%				
Co 228.616†	20493.3	0.9069 mg/L	0.00752	0.9069 mg/L	0.00752	0.83%
QC value within limits for Co 228.616		Recovery = 90.69%				
Cr 267.716†	47379.7	0.9908 mg/L	0.00230	0.9908 mg/L	0.00230	0.23%
QC value within limits for Cr 267.716		Recovery = 99.08%				
Cu 327.393†	49628.7	0.9083 mg/L	0.00398	0.9083 mg/L	0.00398	0.44%
QC value within limits for Cu 327.393		Recovery = 90.83%				
Fe 238.204†	754447.1	94.15 mg/L	0.336	94.15 mg/L	0.336	0.36%
QC value within limits for Fe 238.204		Recovery = 94.15%				
K 766.490†	-476.3	-0.0850 mg/L	0.00906	-0.0850 mg/L	0.00906	10.66%
QC value within limits for K 766.490		Recovery = Not calculated				
Mg 285.213†	2955567.7	222.4 mg/L	0.68	222.4 mg/L	0.68	0.30%
QC value within limits for Mg 285.213		Recovery = 88.95%				
Mn 257.610†	38000.8	0.9260 mg/L	0.01222	0.9260 mg/L	0.01222	1.32%
QC value within limits for Mn 257.610		Recovery = 92.60%				
Mo 202.031†	600.8	0.0357 mg/L	0.00098	0.0357 mg/L	0.00098	2.74%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592†	-101.6	-0.0099 mg/L	0.01026	-0.0099 mg/L	0.01026	103.23%
QC value within limits for Na 589.592		Recovery = Not calculated				
Ni 231.604†	67619.8	1.816 mg/L	0.0027	1.816 mg/L	0.0027	0.15%
QC value within limits for Ni 231.604		Recovery = 90.79%				
Pb 220.353†	482.9	0.0993 mg/L	0.00010	0.0993 mg/L	0.00010	0.10%
QC value within limits for Pb 220.353		Recovery = 99.30%				
Sb 206.836†	2750.1	1.089 mg/L	0.0167	1.089 mg/L	0.0167	1.53%
QC value within limits for Sb 206.836		Recovery = 90.77%				
Se 196.026†	870.3	0.5559 mg/L	0.00908	0.5559 mg/L	0.00908	1.63%
QC value within limits for Se 196.026		Recovery = 111.18%				
Sn 189.927†	-46.2	-0.0071 mg/L	0.00082	-0.0071 mg/L	0.00082	11.56%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 337.279†	-20.8	-0.0006 mg/L	0.00114	-0.0006 mg/L	0.00114	186.71%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 351.924†	360.8	0.2277 mg/L	0.01157	0.2277 mg/L	0.01157	5.08%
QC value within limits for Tl 351.924		Recovery = 113.84%				
V 290.880†	68490.8	0.9820 mg/L	0.00342	0.9820 mg/L	0.00342	0.35%
QC value within limits for V 290.880		Recovery = 98.20%				
Zn 206.200†	103760.3	1.946 mg/L	0.0079	1.946 mg/L	0.0079	0.40%
QC value within limits for Zn 206.200		Recovery = 97.32%				
Zr 343.823†	602.3	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	23.38%

All analyte(s) passed QC.

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Batch ID: AVIO 500

Sequence No.: 42

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Autosampler Location: 5

Date Collected: 4/11/2024 5:15:17 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

see rerun- JLC 04/12/24

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	203600.7	89.4 %	0.39	89.4 %	0.39	0.43%
Y axial	1905223.1	95.6 %	1.04	95.6 %	1.04	1.09%
Ag 328.068†	63805.6	1.945 mg/L	0.0888	1.945 mg/L	0.0888	4.57%
QC value less than the lower limit for Ag 328.068 Recovery = 77.79%						
Al 396.153†	43303.0	9.741 mg/L	0.0502	9.741 mg/L	0.0502	0.52%
QC value within limits for Al 396.153 Recovery = 97.41%						
As 188.979†	8081.7	5.122 mg/L	0.0855	5.122 mg/L	0.0855	1.67%
QC value within limits for As 188.979 Recovery = 102.44%						
B 208.889†	30686.4	4.553 mg/L	0.0648	4.553 mg/L	0.0648	1.42%
QC value within limits for B 208.889 Recovery = 91.07%						
Ba 233.527†	52523.1	4.604 mg/L	0.0896	4.604 mg/L	0.0896	1.95%
QC value within limits for Ba 233.527 Recovery = 92.07%						
Be 313.107†	2819408.7	4.787 mg/L	0.0385	4.787 mg/L	0.0385	0.80%
QC value within limits for Be 313.107 Recovery = 95.74%						
Ca 317.933†	133147.0	9.895 mg/L	0.0489	9.895 mg/L	0.0489	0.49%
QC value within limits for Ca 317.933 Recovery = 98.95%						
Cd 228.802†	128010.4	5.005 mg/L	0.0064	5.005 mg/L	0.0064	0.13%
QC value within limits for Cd 228.802 Recovery = 100.10%						
Co 228.616†	115981.4	5.126 mg/L	0.0022	5.126 mg/L	0.0022	0.04%
QC value within limits for Co 228.616 Recovery = 102.53%						
Cr 267.716†	244698.4	5.106 mg/L	0.0053	5.106 mg/L	0.0053	0.10%
QC value within limits for Cr 267.716 Recovery = 102.12%						
Cu 327.393†	269351.0	4.935 mg/L	0.0082	4.935 mg/L	0.0082	0.17%
QC value within limits for Cu 327.393 Recovery = 98.70%						
Fe 238.204†	38336.9	4.846 mg/L	0.0292	4.846 mg/L	0.0292	0.60%
QC value within limits for Fe 238.204 Recovery = 96.92%						
K 766.490†	54895.1	9.794 mg/L	0.0610	9.794 mg/L	0.0610	0.62%
QC value within limits for K 766.490 Recovery = 97.94%						
Mg 285.213†	126722.9	9.519 mg/L	0.0469	9.519 mg/L	0.0469	0.49%
QC value within limits for Mg 285.213 Recovery = 95.19%						
Mn 257.610†	200831.1	4.880 mg/L	0.0305	4.880 mg/L	0.0305	0.63%
QC value within limits for Mn 257.610 Recovery = 97.61%						
Mo 202.031†	85404.0	5.080 mg/L	0.0154	5.080 mg/L	0.0154	0.30%
QC value within limits for Mo 202.031 Recovery = 101.60%						
Na 589.592†	100406.6	9.819 mg/L	0.0386	9.819 mg/L	0.0386	0.39%
QC value within limits for Na 589.592 Recovery = 98.19%						
Ni 231.604†	193331.6	5.175 mg/L	0.0055	5.175 mg/L	0.0055	0.11%
QC value within limits for Ni 231.604 Recovery = 103.50%						
Pb 220.353†	31404.0	5.106 mg/L	0.0550	5.106 mg/L	0.0550	1.08%
QC value within limits for Pb 220.353 Recovery = 102.12%						
Sb 206.836†	12438.4	5.008 mg/L	0.0583	5.008 mg/L	0.0583	1.16%
QC value within limits for Sb 206.836 Recovery = 100.17%						
Se 196.026†	9114.1	5.191 mg/L	0.0830	5.191 mg/L	0.0830	1.60%
QC value within limits for Se 196.026 Recovery = 103.82%						
Sn 189.927†	33817.5	5.224 mg/L	0.0629	5.224 mg/L	0.0629	1.21%
QC value within limits for Sn 189.927 Recovery = 104.48%						
Ti 337.279†	166427.1	4.853 mg/L	0.0277	4.853 mg/L	0.0277	0.57%
QC value within limits for Ti 337.279 Recovery = 97.05%						
Tl 351.924†	4627.0	2.770 mg/L	0.0437	2.770 mg/L	0.0437	1.58%
QC value greater than the upper limit for Tl 351.924 Recovery = 110.79%						
V 290.880†	357171.6	5.035 mg/L	0.0063	5.035 mg/L	0.0063	0.12%
QC value within limits for V 290.880 Recovery = 100.71%						
Zn 206.200†	286257.5	5.380 mg/L	0.0077	5.380 mg/L	0.0077	0.14%
QC value within limits for Zn 206.200 Recovery = 107.61%						
Zr 343.823†	732408.2	5.111 mg/L	0.0057	5.111 mg/L	0.0057	0.11%
QC value within limits for Zr 343.823 Recovery = 102.22%						
QC Failed. Retry.						

Batch ID: AVIO 500

Sequence No.: 43

Sample ID: SEQ-CCV@ 23J0975

Autosampler Location: 5

Date Collected: 4/11/2024 5:19:42 PM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	192525.7	84.5 %	0.70	84.5 %	0.70	0.83%
Y axial	1817227.7	91.2 %	1.11	91.2 %	1.11	1.22%
Ag 328.068†	63545.4	1.937 mg/L	0.0563	1.937 mg/L	0.0563	2.91%
QC value less than the lower limit for Ag 328.068 Recovery = 77.47%						
Al 396.153†	44569.9	10.04 mg/L	0.075	10.04 mg/L	0.075	0.75%
QC value within limits for Al 396.153 Recovery = 100.37%						
As 188.979†	8236.9	5.221 mg/L	0.1397	5.221 mg/L	0.1397	2.68%
QC value within limits for As 188.979 Recovery = 104.43%						
B 208.889†	31042.3	4.610 mg/L	0.0916	4.610 mg/L	0.0916	1.99%
QC value within limits for B 208.889 Recovery = 92.20%						
Ba 233.527†	52629.9	4.613 mg/L	0.1153	4.613 mg/L	0.1153	2.50%
QC value within limits for Ba 233.527 Recovery = 92.26%						
Be 313.107†	2777709.8	4.716 mg/L	0.0669	4.716 mg/L	0.0669	1.42%
QC value within limits for Be 313.107 Recovery = 94.32%						
Ca 317.933†	135196.9	10.05 mg/L	0.083	10.05 mg/L	0.083	0.83%
QC value within limits for Ca 317.933 Recovery = 100.47%						
Cd 228.802†	128537.9	5.023 mg/L	0.0191	5.023 mg/L	0.0191	0.38%
QC value within limits for Cd 228.802 Recovery = 100.46%						
Co 228.616†	115837.2	5.120 mg/L	0.0176	5.120 mg/L	0.0176	0.34%
QC value within limits for Co 228.616 Recovery = 102.40%						
Cr 267.716†	244543.3	5.103 mg/L	0.0201	5.103 mg/L	0.0201	0.39%
QC value within limits for Cr 267.716 Recovery = 102.06%						
Cu 327.393†	271017.5	4.966 mg/L	0.0217	4.966 mg/L	0.0217	0.44%
QC value within limits for Cu 327.393 Recovery = 99.31%						
Fe 238.204†	38500.3	4.866 mg/L	0.0413	4.866 mg/L	0.0413	0.85%
QC value within limits for Fe 238.204 Recovery = 97.33%						
K 766.490†	53652.6	9.573 mg/L	0.0726	9.573 mg/L	0.0726	0.76%
QC value within limits for K 766.490 Recovery = 95.73%						
Mg 285.213†	127547.6	9.581 mg/L	0.0540	9.581 mg/L	0.0540	0.56%
QC value within limits for Mg 285.213 Recovery = 95.81%						
Mn 257.610†	201483.9	4.896 mg/L	0.0315	4.896 mg/L	0.0315	0.64%
QC value within limits for Mn 257.610 Recovery = 97.92%						
Mo 202.031†	85256.6	5.071 mg/L	0.0181	5.071 mg/L	0.0181	0.36%
QC value within limits for Mo 202.031 Recovery = 101.43%						
Na 589.592†	100181.5	9.797 mg/L	0.0549	9.797 mg/L	0.0549	0.56%
QC value within limits for Na 589.592 Recovery = 97.97%						
Ni 231.604†	192860.2	5.162 mg/L	0.0216	5.162 mg/L	0.0216	0.42%
QC value within limits for Ni 231.604 Recovery = 103.25%						
Pb 220.353†	32091.9	5.218 mg/L	0.1192	5.218 mg/L	0.1192	2.28%
QC value within limits for Pb 220.353 Recovery = 104.35%						
Sb 206.836†	12633.6	5.087 mg/L	0.0894	5.087 mg/L	0.0894	1.76%
QC value within limits for Sb 206.836 Recovery = 101.74%						
Se 196.026†	9256.1	5.272 mg/L	0.1644	5.272 mg/L	0.1644	3.12%
QC value within limits for Se 196.026 Recovery = 105.44%						
Sn 189.927†	34400.8	5.314 mg/L	0.1169	5.314 mg/L	0.1169	2.20%
QC value within limits for Sn 189.927 Recovery = 106.28%						
Ti 337.279†	168036.2	4.900 mg/L	0.0280	4.900 mg/L	0.0280	0.57%
QC value within limits for Ti 337.279 Recovery = 97.99%						
Tl 351.924†	4767.8	2.852 mg/L	0.0651	2.852 mg/L	0.0651	2.28%
QC value greater than the upper limit for Tl 351.924 Recovery = 114.08%						
V 290.880†	356449.0	5.025 mg/L	0.0214	5.025 mg/L	0.0214	0.43%
QC value within limits for V 290.880 Recovery = 100.50%						
Zn 206.200†	285967.1	5.375 mg/L	0.0236	5.375 mg/L	0.0236	0.44%
QC value within limits for Zn 206.200 Recovery = 107.50%						
Zr 343.823†	732045.3	5.109 mg/L	0.0202	5.109 mg/L	0.0202	0.40%
QC value within limits for Zr 343.823 Recovery = 102.17%						
QC Failed. Continue with analysis.						

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Batch ID: AVIO 500

Sequence No.: 44

Autosampler Location: 1

Sample ID: SEQ-CCB@ 23J0970

Date Collected: 4/11/2024 5:27:27 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	167640.1	73.6 %	2.08	73.6 %	2.08	2.82%
Y axial	1725486.0	86.6 %	0.48	86.6 %	0.48	0.56%
Ag 328.068†	269.2	0.0082 mg/L	0.00068	0.0082 mg/L	0.00068	8.30%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-56.6	-0.0133 mg/L	0.01672	-0.0133 mg/L	0.01672	125.50%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	10.8	0.0069 mg/L	0.00234	0.0069 mg/L	0.00234	34.12%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	49.0	0.0076 mg/L	0.00178	0.0076 mg/L	0.00178	23.36%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	-3.1	-0.0003 mg/L	0.00093	-0.0003 mg/L	0.00093	345.27%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	452.5	0.0008 mg/L	0.00016	0.0008 mg/L	0.00016	20.61%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	106.2	0.0079 mg/L	0.00395	0.0079 mg/L	0.00395	50.08%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	5.8	0.0000 mg/L	0.00038	0.0000 mg/L	0.00038	>999.9%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-28.9	-0.0013 mg/L	0.00032	-0.0013 mg/L	0.00032	25.13%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	-3.2	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	375.12%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	5.6	0.0001 mg/L	0.00103	0.0001 mg/L	0.00103	985.64%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	47.8	0.0059 mg/L	0.00181	0.0059 mg/L	0.00181	30.47%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-865.7	-0.1545 mg/L	0.01664	-0.1545 mg/L	0.01664	10.77%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	-1.2	-0.0001 mg/L	0.00121	-0.0001 mg/L	0.00121	>999.9%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	-58.4	-0.0014 mg/L	0.00036	-0.0014 mg/L	0.00036	25.05%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	28.8	0.0017 mg/L	0.00017	0.0017 mg/L	0.00017	10.18%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-473.4	-0.0463 mg/L	0.00162	-0.0463 mg/L	0.00162	3.50%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-61.4	-0.0016 mg/L	0.00028	-0.0016 mg/L	0.00028	17.13%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	32.9	0.0053 mg/L	0.00081	0.0053 mg/L	0.00081	15.10%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	6.9	0.0028 mg/L	0.00246	0.0028 mg/L	0.00246	88.34%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	10.7	0.0061 mg/L	0.00497	0.0061 mg/L	0.00497	81.41%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	12.9	0.0020 mg/L	0.00046	0.0020 mg/L	0.00046	23.31%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-114.0	-0.0033 mg/L	0.00041	-0.0033 mg/L	0.00041	12.27%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-8.3	-0.0048 mg/L	0.00184	-0.0048 mg/L	0.00184	38.15%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	91.1	0.0013 mg/L	0.00037	0.0013 mg/L	0.00037	28.46%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	119.7	0.0022 mg/L	0.00013	0.0022 mg/L	0.00013	5.73%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	108.6	0.0008 mg/L	0.00042	0.0008 mg/L	0.00042	56.09%

All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 5:56:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 45

Sample ID: B370235-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 45

Date Collected: 4/11/2024 5:57:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y radial	199891.7	87.8	%	0.95	87.8	0.95	1.08%
Y axial	1922688.2	96.5	%	0.75	96.5	0.75	0.77%
Ag 328.068†	40.5	0.0012	mg/L	0.00015	0.0012	0.00015	12.08%
Al 396.153†	20.5	0.0046	mg/L	0.01018	0.0046	0.01018	222.27%
As 188.979†	5.0	0.0032	mg/L	0.00073	0.0032	0.00073	23.22%
B 208.889†	18.7	0.0028	mg/L	0.00027	0.0028	0.00027	9.83%
Ba 233.527†	12.4	0.0011	mg/L	0.00018	0.0011	0.00018	16.65%
Be 313.107†	-147.9	-0.0003	mg/L	0.00001	-0.0003	0.00001	2.00%
Ca 317.933†	960.5	0.0714	mg/L	0.00371	0.0714	0.00371	5.19%
Cd 228.802†	-9.1	-0.0005	mg/L	0.00003	-0.0005	0.00003	7.40%
Co 228.616†	-23.2	-0.0010	mg/L	0.00027	-0.0010	0.00027	26.18%
Cr 267.716†	258.3	0.0054	mg/L	0.00014	0.0054	0.00014	2.62%
Cu 327.393†	-165.9	-0.0030	mg/L	0.00123	-0.0030	0.00123	40.77%
Fe 238.204†	85.0	0.0106	mg/L	0.00080	0.0106	0.00080	7.55%
K 766.490†	-601.9	-0.1074	mg/L	0.02518	-0.1074	0.02518	23.45%
Mg 285.213†	88.3	0.0066	mg/L	0.00077	0.0066	0.00077	11.60%
Mn 257.610†	-20.3	-0.0005	mg/L	0.00003	-0.0005	0.00003	5.64%
Mo 202.031†	50.0	0.0030	mg/L	0.00060	0.0030	0.00060	20.26%
Na 589.592†	432.5	0.0423	mg/L	0.01029	0.0423	0.01029	24.32%
Ni 231.604†	-52.4	-0.0014	mg/L	0.00064	-0.0014	0.00064	45.86%
Pb 220.353†	8.4	0.0014	mg/L	0.00031	0.0014	0.00031	22.49%
Sb 206.836†	33.9	0.0136	mg/L	0.00616	0.0136	0.00616	45.43%
Se 196.026†	12.2	0.0070	mg/L	0.00152	0.0070	0.00152	21.70%
Sn 189.927†	10.1	0.0016	mg/L	0.00067	0.0016	0.00067	43.07%
Ti 337.279†	-31.4	-0.0009	mg/L	0.00077	-0.0009	0.00077	83.61%
Tl 351.924†	29.7	0.0174	mg/L	0.02788	0.0174	0.02788	160.44%
V 290.880†	81.6	0.0012	mg/L	0.00058	0.0012	0.00058	50.56%
Zn 206.200†	-8.7	-0.0001	mg/L	0.00017	-0.0001	0.00017	123.98%
Zr 343.823†	181.0	0.0013	mg/L	0.00047	0.0013	0.00047	36.94%

Batch ID: AVIO 500

Sequence No.: 46

Sample ID: B370235-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 46

Date Collected: 4/11/2024 6:05:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y radial	199199.5	87.5	%	0.54	87.5	0.54	0.62%
Y axial	1879019.2	94.3	%	0.43	94.3	0.43	0.46%
Ag 328.068†	4.1	0.0029	mg/L	0.00029	0.0029	0.00029	9.98%

Al 396.153†	2354.8	0.5200 mg/L	0.01804	0.5200 mg/L	0.01804	3.47%
As 188.979†	766.8	0.4860 mg/L	0.00140	0.4860 mg/L	0.00140	0.29%
B 208.889†	6597.2	1.012 mg/L	0.0053	1.012 mg/L	0.0053	0.52%
Ba 233.527†	5367.0	0.4704 mg/L	0.00914	0.4704 mg/L	0.00914	1.94%
Be 313.107†	294902.7	0.5007 mg/L	0.00220	0.5007 mg/L	0.00220	0.44%
Ca 317.933†	54606.5	4.058 mg/L	0.0981	4.058 mg/L	0.0981	2.42%
Cd 228.802†	13229.0	0.5184 mg/L	0.00275	0.5184 mg/L	0.00275	0.53%
Co 228.616†	11913.4	0.5265 mg/L	0.00320	0.5265 mg/L	0.00320	0.61%
Cr 267.716†	25307.9	0.5281 mg/L	0.00450	0.5281 mg/L	0.00450	0.85%
Cu 327.393†	61872.5	1.127 mg/L	0.0100	1.127 mg/L	0.0100	0.89%
Fe 238.204†	32565.9	4.070 mg/L	0.0854	4.070 mg/L	0.0854	2.10%
K 766.490†	18631.6	3.324 mg/L	0.0142	3.324 mg/L	0.0142	0.43%
Mg 285.213†	53743.0	4.046 mg/L	0.0760	4.046 mg/L	0.0760	1.88%
Mn 257.610†	20937.5	0.5089 mg/L	0.01069	0.5089 mg/L	0.01069	2.10%
Mo 202.031†	8633.5	0.5135 mg/L	0.00283	0.5135 mg/L	0.00283	0.55%
Na 589.592†	41892.0	4.097 mg/L	0.0167	4.097 mg/L	0.0167	0.41%
Ni 231.604†	20076.3	0.5374 mg/L	0.00675	0.5374 mg/L	0.00675	1.26%
Pb 220.353†	3224.1	0.5235 mg/L	0.00286	0.5235 mg/L	0.00286	0.55%
Sb 206.836†	1265.2	0.5092 mg/L	0.00294	0.5092 mg/L	0.00294	0.58%
Se 196.026†	882.7	0.5051 mg/L	0.00436	0.5051 mg/L	0.00436	0.86%
Sn 189.927†	3421.8	0.5286 mg/L	0.00398	0.5286 mg/L	0.00398	0.75%
Ti 337.279†	17030.2	0.4968 mg/L	0.01041	0.4968 mg/L	0.01041	2.10%
Tl 351.924†	1027.3	0.5987 mg/L	0.02234	0.5987 mg/L	0.02234	3.73%
V 290.880†	36341.9	0.5124 mg/L	0.00462	0.5124 mg/L	0.00462	0.90%
Zn 206.200†	57591.4	1.080 mg/L	0.0103	1.080 mg/L	0.0103	0.95%
Zr 343.823†	145.7	0.0008 mg/L	0.00057	0.0008 mg/L	0.00057	68.17%

Batch ID: AVIO 500

Sequence No.: 47

Sample ID: B370235-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 47

Date Collected: 4/11/2024 6:14:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BS2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y radial	193916.2	85.2	%	0.02	85.2	0.02	0.02%
Y axial	1792269.9	90.0	%	0.88	90.0	0.88	0.98%
Ag 328.068†	19561.5	0.6011	mg/L	0.00646	0.6011	0.00646	1.07%
Al 396.153†	2385.6	0.5264	mg/L	0.01333	0.5264	0.01333	2.53%
As 188.979†	782.4	0.4958	mg/L	0.00377	0.4958	0.00377	0.76%
B 208.889†	6792.8	1.042	mg/L	0.0143	1.042	0.0143	1.38%
Ba 233.527†	5514.6	0.4833	mg/L	0.00815	0.4833	0.00815	1.69%
Be 313.107†	301246.7	0.5115	mg/L	0.00048	0.5115	0.00048	0.09%
Ca 317.933†	55487.6	4.124	mg/L	0.0432	4.124	0.0432	1.05%
Cd 228.802†	13619.5	0.5338	mg/L	0.00800	0.5338	0.00800	1.50%
Co 228.616†	12220.6	0.5401	mg/L	0.00810	0.5401	0.00810	1.50%
Cr 267.716†	25600.4	0.5342	mg/L	0.00857	0.5342	0.00857	1.60%
Cu 327.393†	61616.4	1.123	mg/L	0.0147	1.123	0.0147	1.31%
Fe 238.204†	33078.3	4.134	mg/L	0.0260	4.134	0.0260	0.63%
K 766.490†	19339.2	3.450	mg/L	0.0343	3.450	0.0343	0.99%
Mg 285.213†	54647.7	4.114	mg/L	0.0342	4.114	0.0342	0.83%
Mn 257.610†	21278.9	0.5172	mg/L	0.00407	0.5172	0.00407	0.79%
Mo 202.031†	8873.8	0.5278	mg/L	0.00829	0.5278	0.00829	1.57%
Na 589.592†	43082.1	4.213	mg/L	0.0314	4.213	0.0314	0.75%
Ni 231.604†	20195.8	0.5406	mg/L	0.00771	0.5406	0.00771	1.43%
Pb 220.353†	3291.7	0.5345	mg/L	0.00666	0.5345	0.00666	1.25%
Sb 206.836†	1312.4	0.5284	mg/L	0.00965	0.5284	0.00965	1.83%
Se 196.026†	895.3	0.5123	mg/L	0.00725	0.5123	0.00725	1.42%
Sn 189.927†	3499.4	0.5406	mg/L	0.00706	0.5406	0.00706	1.31%
Ti 337.279†	17296.7	0.5046	mg/L	0.00286	0.5046	0.00286	0.57%
Tl 351.924†	1045.1	0.6090	mg/L	0.00840	0.6090	0.00840	1.38%
V 290.880†	36526.2	0.5150	mg/L	0.00834	0.5150	0.00834	1.62%
Zn 206.200†	57522.0	1.078	mg/L	0.0201	1.078	0.0201	1.86%
Zr 343.823†	46.6	0.0001	mg/L	0.00033	0.0001	0.00033	223.58%

Batch ID: AVIO 500

Sequence No.: 48

Sample ID: B370235-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 48

Date Collected: 4/11/2024 6:23:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	199305.4	87.5	%	0.91	87.5	%	1.03%
Y axial	1857747.2	93.3	%	0.29	93.3	%	0.32%
Ag 328.068†	19493.4	0.5991	mg/L	0.00260	0.5991	mg/L	0.43%
Al 396.153†	2321.2	0.5112	mg/L	0.02537	0.5112	mg/L	4.96%
As 188.979†	793.3	0.5027	mg/L	0.00447	0.5027	mg/L	0.89%
B 208.889†	6827.1	1.047	mg/L	0.0104	1.047	mg/L	0.99%
Ba 233.527†	5525.4	0.4843	mg/L	0.00364	0.4843	mg/L	0.75%
Be 313.107†	300252.4	0.5098	mg/L	0.00092	0.5098	mg/L	0.18%
Ca 317.933†	55382.5	4.116	mg/L	0.0698	4.116	mg/L	1.70%
Cd 228.802†	13743.4	0.5386	mg/L	0.00365	0.5386	mg/L	0.68%
Co 228.616†	12304.8	0.5438	mg/L	0.00438	0.5438	mg/L	0.81%
Cr 267.716†	25954.8	0.5416	mg/L	0.00425	0.5416	mg/L	0.79%
Cu 327.393†	61870.4	1.127	mg/L	0.0073	1.127	mg/L	0.65%
Fe 238.204†	33248.7	4.155	mg/L	0.0740	4.155	mg/L	1.78%
K 766.490†	19388.0	3.459	mg/L	0.0059	3.459	mg/L	0.17%
Mg 285.213†	54465.6	4.100	mg/L	0.0697	4.100	mg/L	1.70%
Mn 257.610†	21252.8	0.5166	mg/L	0.00899	0.5166	mg/L	1.74%
Mo 202.031†	8932.8	0.5313	mg/L	0.00411	0.5313	mg/L	0.77%
Na 589.592†	43349.9	4.239	mg/L	0.0017	4.239	mg/L	0.04%
Ni 231.604†	20676.6	0.5535	mg/L	0.00446	0.5535	mg/L	0.81%
Pb 220.353†	3255.1	0.5286	mg/L	0.00560	0.5286	mg/L	1.06%
Sb 206.836†	1298.4	0.5227	mg/L	0.00738	0.5227	mg/L	1.41%
Se 196.026†	897.3	0.5134	mg/L	0.00753	0.5134	mg/L	1.47%
Sn 189.927†	3535.3	0.5461	mg/L	0.00678	0.5461	mg/L	1.24%
Ti 337.279†	17281.7	0.5041	mg/L	0.00854	0.5041	mg/L	1.69%
Tl 351.924†	1076.4	0.6273	mg/L	0.01351	0.6273	mg/L	2.15%
V 290.880†	37211.0	0.5247	mg/L	0.00416	0.5247	mg/L	0.79%
Zn 206.200†	59018.0	1.107	mg/L	0.0093	1.107	mg/L	0.84%
Zr 343.823†	75.2	0.0003	mg/L	0.00018	0.0003	mg/L	53.10%

Batch ID: AVIO 500

Sequence No.: 49

Sample ID: B370235-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 49

Date Collected: 4/11/2024 6:32:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370235-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	206714.3	90.8	%	0.67	90.8	%	0.74%
Y axial	1914880.9	96.1	%	0.61	96.1	%	0.64%
Ag 328.068†	18696.7	0.5747	mg/L	0.00364	0.5747	mg/L	0.63%
Al 396.153†	2290.1	0.5045	mg/L	0.00414	0.5045	mg/L	0.82%
As 188.979†	776.9	0.4923	mg/L	0.00071	0.4923	mg/L	0.14%
B 208.889†	6666.2	1.022	mg/L	0.0067	1.022	mg/L	0.66%
Ba 233.527†	5485.7	0.4808	mg/L	0.00712	0.4808	mg/L	1.48%
Be 313.107†	297301.7	0.5048	mg/L	0.00226	0.5048	mg/L	0.45%
Ca 317.933†	55181.3	4.101	mg/L	0.0172	4.101	mg/L	0.42%
Cd 228.802†	13397.6	0.5250	mg/L	0.00296	0.5250	mg/L	0.56%
Co 228.616†	12034.6	0.5318	mg/L	0.00365	0.5318	mg/L	0.69%
Cr 267.716†	25539.2	0.5329	mg/L	0.00150	0.5329	mg/L	0.28%
Cu 327.393†	60970.9	1.111	mg/L	0.0026	1.111	mg/L	0.23%
Fe 238.204†	32864.3	4.107	mg/L	0.0228	4.107	mg/L	0.55%

K 766.490†	19056.3	3.400 mg/L	0.0189	3.400 mg/L	0.0189	0.55%
Mg 285.213†	53784.2	4.049 mg/L	0.0190	4.049 mg/L	0.0190	0.47%
Mn 257.610†	20968.7	0.5097 mg/L	0.00221	0.5097 mg/L	0.00221	0.43%
Mo 202.031†	8750.9	0.5205 mg/L	0.00315	0.5205 mg/L	0.00315	0.61%
Na 589.592†	42178.0	4.125 mg/L	0.0132	4.125 mg/L	0.0132	0.32%
Ni 231.604†	20322.7	0.5440 mg/L	0.00267	0.5440 mg/L	0.00267	0.49%
Pb 220.353†	3223.8	0.5235 mg/L	0.00213	0.5235 mg/L	0.00213	0.41%
Sb 206.836†	1282.2	0.5161 mg/L	0.00773	0.5161 mg/L	0.00773	1.50%
Se 196.026†	886.2	0.5071 mg/L	0.00410	0.5071 mg/L	0.00410	0.81%
Sn 189.927†	3457.6	0.5341 mg/L	0.00352	0.5341 mg/L	0.00352	0.66%
Ti 337.279†	17136.2	0.4999 mg/L	0.00078	0.4999 mg/L	0.00078	0.16%
Tl 351.924†	1031.7	0.6012 mg/L	0.00885	0.6012 mg/L	0.00885	1.47%
V 290.880†	36891.1	0.5202 mg/L	0.00197	0.5202 mg/L	0.00197	0.38%
Zn 206.200†	58042.0	1.088 mg/L	0.0058	1.088 mg/L	0.0058	0.53%
Zr 343.823†	97.6	0.0005 mg/L	0.00038	0.0005 mg/L	0.00038	74.90%

User canceled analysis.

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2024 6:49:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 50

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2024 6:52:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	193145.1	84.8 %	0.16	84.8 %	0.16	0.18%
Y axial	1728583.3	86.8 %	0.34	86.8 %	0.34	0.39%
Ag 328.068†	83071.0	2.533 mg/L	0.0290	2.533 mg/L	0.0290	1.15%
QC value within limits for Ag	328.068	Recovery =	101.31%			
Al 396.153†	42422.5	9.532 mg/L	0.0205	9.532 mg/L	0.0205	0.21%
QC value within limits for Al	396.153	Recovery =	95.32%			
As 188.979†	7919.9	5.019 mg/L	0.0837	5.019 mg/L	0.0837	1.67%
QC value within limits for As	188.979	Recovery =	100.38%			
B 208.889†	31634.0	4.703 mg/L	0.1047	4.703 mg/L	0.1047	2.23%
QC value within limits for B	208.889	Recovery =	94.06%			
Ba 233.527†	54529.3	4.779 mg/L	0.0390	4.779 mg/L	0.0390	0.82%
QC value within limits for Ba	233.527	Recovery =	95.59%			
Be 313.107†	2818500.5	4.785 mg/L	0.0238	4.785 mg/L	0.0238	0.50%
QC value within limits for Be	313.107	Recovery =	95.70%			
Ca 317.933†	130925.5	9.730 mg/L	0.0158	9.730 mg/L	0.0158	0.16%
QC value within limits for Ca	317.933	Recovery =	97.30%			
Cd 228.802†	126519.2	4.948 mg/L	0.0142	4.948 mg/L	0.0142	0.29%
QC value within limits for Cd	228.802	Recovery =	98.96%			
Co 228.616†	114160.5	5.046 mg/L	0.0196	5.046 mg/L	0.0196	0.39%
QC value within limits for Co	228.616	Recovery =	100.92%			
Cr 267.716†	242535.8	5.061 mg/L	0.0072	5.061 mg/L	0.0072	0.14%
QC value within limits for Cr	267.716	Recovery =	101.22%			
Cu 327.393†	273306.6	5.008 mg/L	0.0089	5.008 mg/L	0.0089	0.18%
QC value within limits for Cu	327.393	Recovery =	100.16%			
Fe 238.204†	38449.4	4.859 mg/L	0.0188	4.859 mg/L	0.0188	0.39%
QC value within limits for Fe	238.204	Recovery =	97.18%			
K 766.490†	53628.1	9.568 mg/L	0.0374	9.568 mg/L	0.0374	0.39%
QC value within limits for K	766.490	Recovery =	95.68%			
Mg 285.213†	128213.6	9.630 mg/L	0.0181	9.630 mg/L	0.0181	0.19%
QC value within limits for Mg	285.213	Recovery =	96.30%			
Mn 257.610†	200396.6	4.870 mg/L	0.0031	4.870 mg/L	0.0031	0.06%
QC value within limits for Mn	257.610	Recovery =	97.40%			
Mo 202.031†	85382.1	5.079 mg/L	0.0117	5.079 mg/L	0.0117	0.23%
QC value within limits for Mo	202.031	Recovery =	101.58%			
Na 589.592†	100903.6	9.868 mg/L	0.0078	9.868 mg/L	0.0078	0.08%
QC value within limits for Na	589.592	Recovery =	98.68%			
Ni 231.604†	189767.9	5.080 mg/L	0.0061	5.080 mg/L	0.0061	0.12%
QC value within limits for Ni	231.604	Recovery =	101.59%			
Pb 220.353†	30309.2	4.929 mg/L	0.1011	4.929 mg/L	0.1011	2.05%
QC value within limits for Pb	220.353	Recovery =	98.57%			
Sb 206.836†	12325.2	4.964 mg/L	0.0866	4.964 mg/L	0.0866	1.74%
QC value within limits for Sb	206.836	Recovery =	99.27%			
Se 196.026†	8738.3	4.977 mg/L	0.1004	4.977 mg/L	0.1004	2.02%
QC value within limits for Se	196.026	Recovery =	99.54%			
Sn 189.927†	33274.7	5.140 mg/L	0.1096	5.140 mg/L	0.1096	2.13%
QC value within limits for Sn	189.927	Recovery =	102.81%			

Ti 337.279† 167395.7 4.881 mg/L 0.0073 4.881 mg/L 0.0073 0.15%
 QC value within limits for Ti 337.279 Recovery = 97.62%
 Tl 351.924† 4730.7 2.833 mg/L 0.0886 2.833 mg/L 0.0886 3.13%
 QC value greater than the upper limit for Tl 351.924 Recovery = 113.34%
 V 290.880† 356864.0 5.031 mg/L 0.0094 5.031 mg/L 0.0094 0.19%
 QC value within limits for V 290.880 Recovery = 100.62%
 Zn 206.200† 274643.9 5.163 mg/L 0.0128 5.163 mg/L 0.0128 0.25%
 QC value within limits for Zn 206.200 Recovery = 103.26%
 Zr 343.823† 759038.6 5.297 mg/L 0.0128 5.297 mg/L 0.0128 0.24%
 QC value within limits for Zr 343.823 Recovery = 105.94%
 QC Failed. Continue with analysis.

=====

Batch ID: AVIO 500

Sequence No.: 51

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 7:00:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	185168.8	81.3 %	1.00	81.3 %	1.00	1.23%
Y axial	1724119.1	86.5 %	3.32	86.5 %	3.32	3.84%
Ag 328.068†	-6.1	-0.0002 mg/L	0.00051	-0.0002 mg/L	0.00051	269.90%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-63.8	-0.0150 mg/L	0.02780	-0.0150 mg/L	0.02780	185.07%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	6.4	0.0041 mg/L	0.00031	0.0041 mg/L	0.00031	7.70%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	20.4	0.0031 mg/L	0.00146	0.0031 mg/L	0.00146	46.87%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	2.1	0.0002 mg/L	0.00046	0.0002 mg/L	0.00046	243.48%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	123.1	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	38.54%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	26.1	0.0019 mg/L	0.00122	0.0019 mg/L	0.00122	62.74%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	2.6	-0.0000 mg/L	0.00028	-0.0000 mg/L	0.00028	>999.9%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-24.8	-0.0011 mg/L	0.00032	-0.0011 mg/L	0.00032	29.40%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	17.6	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	24.28%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-81.4	-0.0015 mg/L	0.00090	-0.0015 mg/L	0.00090	61.31%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	28.5	0.0035 mg/L	0.00053	0.0035 mg/L	0.00053	15.01%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-776.9	-0.1386 mg/L	0.01412	-0.1386 mg/L	0.01412	10.19%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	-3.4	-0.0003 mg/L	0.00104	-0.0003 mg/L	0.00104	404.80%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	-47.4	-0.0012 mg/L	0.00006	-0.0012 mg/L	0.00006	5.58%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	29.3	0.0017 mg/L	0.00022	0.0017 mg/L	0.00022	12.77%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-627.7	-0.0614 mg/L	0.01277	-0.0614 mg/L	0.01277	20.80%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-58.6	-0.0016 mg/L	0.00071	-0.0016 mg/L	0.00071	45.35%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	30.5	0.0049 mg/L	0.00205	0.0049 mg/L	0.00205	41.40%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	17.0	0.0069 mg/L	0.00608	0.0069 mg/L	0.00608	88.60%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	5.3	0.0030 mg/L	0.00410	0.0030 mg/L	0.00410	135.10%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	6.8	0.0010 mg/L	0.00102	0.0010 mg/L	0.00102	97.92%

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -85.4 -0.0025 mg/L 0.00080 -0.0025 mg/L 0.00080 32.27%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -16.5 -0.0096 mg/L 0.01090 -0.0096 mg/L 0.01090 113.22%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 93.4 0.0013 mg/L 0.00018 0.0013 mg/L 0.00018 13.33%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 53.7 0.0010 mg/L 0.00034 0.0010 mg/L 0.00034 33.33%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 184.8 0.0013 mg/L 0.00042 0.0013 mg/L 0.00042 32.58%
 All analyte(s) passed QC.

Batch ID: AVIO 500

Sequence No.: 52

Sample ID: B371015-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 50

Date Collected: 4/11/2024 7:08:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	167805.6	73.7 %	0.41	73.7 %	0.41	0.56%
Y axial	1668143.3	83.7 %	0.93	83.7 %	0.93	1.11%
Ag 328.068†	-17.9	-0.0005 mg/L	0.00073	-0.0005 mg/L	0.00073	134.64%
Al 396.153†	-5.1	-0.0013 mg/L	0.00969	-0.0013 mg/L	0.00969	724.44%
As 188.979†	1.7	0.0011 mg/L	0.00390	0.0011 mg/L	0.00390	361.42%
B 208.889†	48.0	0.0074 mg/L	0.00030	0.0074 mg/L	0.00030	4.00%
Ba 233.527†	10.1	0.0009 mg/L	0.00072	0.0009 mg/L	0.00072	80.72%
Be 313.107†	69.2	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	56.17%
Ca 317.933†	390.2	0.0290 mg/L	0.00343	0.0290 mg/L	0.00343	11.82%
Cd 228.802†	8.6	0.0003 mg/L	0.00031	0.0003 mg/L	0.00031	100.28%
Co 228.616†	-16.4	-0.0007 mg/L	0.00051	-0.0007 mg/L	0.00051	71.02%
Cr 267.716†	26.0	0.0005 mg/L	0.00060	0.0005 mg/L	0.00060	109.80%
Cu 327.393†	686.6	0.0125 mg/L	0.00141	0.0125 mg/L	0.00141	11.31%
Fe 238.204†	138.4	0.0173 mg/L	0.00061	0.0173 mg/L	0.00061	3.52%
K 766.490†	-556.0	-0.0992 mg/L	0.01566	-0.0992 mg/L	0.01566	15.79%
Mg 285.213†	19.0	0.0014 mg/L	0.00060	0.0014 mg/L	0.00060	41.85%
Mn 257.610†	3.7	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	102.20%
Mo 202.031†	38.3	0.0023 mg/L	0.00010	0.0023 mg/L	0.00010	4.33%
Na 589.592†	-171.1	-0.0167 mg/L	0.01704	-0.0167 mg/L	0.01704	101.82%
Ni 231.604†	-24.6	-0.0007 mg/L	0.00063	-0.0007 mg/L	0.00063	95.74%
Pb 220.353†	73.0	0.0118 mg/L	0.00242	0.0118 mg/L	0.00242	20.46%
Sb 206.836†	9.1	0.0037 mg/L	0.00645	0.0037 mg/L	0.00645	174.05%
Se 196.026†	7.8	0.0045 mg/L	0.00452	0.0045 mg/L	0.00452	101.06%
Sn 189.927†	229.7	0.0354 mg/L	0.00088	0.0354 mg/L	0.00088	2.49%
Ti 337.279†	-75.8	-0.0022 mg/L	0.00039	-0.0022 mg/L	0.00039	17.44%
Tl 351.924†	-11.5	-0.0067 mg/L	0.00758	-0.0067 mg/L	0.00758	112.94%
V 290.880†	133.6	0.0019 mg/L	0.00061	0.0019 mg/L	0.00061	32.59%
Zn 206.200†	599.3	0.0112 mg/L	0.00059	0.0112 mg/L	0.00059	5.23%
Zr 343.823†	147.2	0.0010 mg/L	0.00009	0.0010 mg/L	0.00009	8.83%

Batch ID: AVIO 500

Sequence No.: 53

Sample ID: B371015-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 51

Date Collected: 4/11/2024 7:17:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-BS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155870.7	68.4 %	0.93	68.4 %	0.93	1.36%
Y axial	1475399.4	74.1 %	0.58	74.1 %	0.58	0.78%

Ag 328.068†	26921.7	0.8305 mg/L	0.00925	0.8305 mg/L	0.00925	1.11%
Al 396.153†	241017.7	56.18 mg/L	0.198	56.18 mg/L	0.198	0.35%
As 188.979†	4394.9	2.804 mg/L	0.0180	2.804 mg/L	0.0180	0.64%
B 208.889†	12897.7	1.959 mg/L	0.0118	1.959 mg/L	0.0118	0.60%
Ba 233.527†	30708.2	2.692 mg/L	0.0477	2.692 mg/L	0.0477	1.77%
Be 313.107†	924673.9	1.572 mg/L	0.0290	1.572 mg/L	0.0290	1.84%
Ca 317.933†	624472.9	46.41 mg/L	0.906	46.41 mg/L	0.906	1.95%
Cd 228.802†	52005.2	2.009 mg/L	0.0118	2.009 mg/L	0.0118	0.59%
Co 228.616†	17284.9	0.7602 mg/L	0.00458	0.7602 mg/L	0.00458	0.60%
Cr 267.716†	84367.7	1.760 mg/L	0.0023	1.760 mg/L	0.0023	0.13%
Cu 327.393†	112366.9	2.050 mg/L	0.0041	2.050 mg/L	0.0041	0.20%
Fe 238.204†	472148.3	58.93 mg/L	0.367	58.93 mg/L	0.367	0.62%
K 766.490†	63589.2	11.35 mg/L	0.065	11.35 mg/L	0.065	0.57%
Mg 285.213†	204954.0	15.45 mg/L	0.063	15.45 mg/L	0.063	0.41%
Mn 257.610†	206388.1	5.017 mg/L	0.0283	5.017 mg/L	0.0283	0.56%
Mo 202.031†	22576.2	1.343 mg/L	0.0082	1.343 mg/L	0.0082	0.61%
Na 589.592†	48235.3	4.717 mg/L	0.0200	4.717 mg/L	0.0200	0.42%
Ni 231.604†	109641.6	2.939 mg/L	0.0145	2.939 mg/L	0.0145	0.49%
Pb 220.353†	5241.6	0.8558 mg/L	0.00743	0.8558 mg/L	0.00743	0.87%
Sb 206.836†	2389.0	0.9571 mg/L	0.00623	0.9571 mg/L	0.00623	0.65%
Se 196.026†	2610.5	1.522 mg/L	0.0154	1.522 mg/L	0.0154	1.01%
Sn 189.927†	5389.5	0.8361 mg/L	0.00698	0.8361 mg/L	0.00698	0.83%
Ti 337.279†	105380.5	3.074 mg/L	0.0175	3.074 mg/L	0.0175	0.57%
Tl 351.924†	3796.9	2.221 mg/L	0.0221	2.221 mg/L	0.0221	0.99%
V 290.880†	73061.2	1.028 mg/L	0.0036	1.028 mg/L	0.0036	0.35%
Zn 206.200†	82796.8	1.558 mg/L	0.0074	1.558 mg/L	0.0074	0.47%
Zr 343.823†	10540.9	0.0710 mg/L	0.00066	0.0710 mg/L	0.00066	0.94%

Batch ID: AVIO 500

Sequence No.: 54

Sample ID: B371015-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 52

Date Collected: 4/11/2024 7:26:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	160239.9	70.4 %		1.40	70.4 %	1.40	2.00%
Y axial	1516086.0	76.1 %		0.95	76.1 %	0.95	1.25%
Ag 328.068†	28256.1	0.8715 mg/L		0.01623	0.8715 mg/L	0.01623	1.86%
Al 396.153†	244442.2	56.97 mg/L		0.120	56.97 mg/L	0.120	0.21%
As 188.979†	4626.6	2.952 mg/L		0.0158	2.952 mg/L	0.0158	0.54%
B 208.889†	13470.0	2.046 mg/L		0.0157	2.046 mg/L	0.0157	0.77%
Ba 233.527†	30716.3	2.692 mg/L		0.0887	2.692 mg/L	0.0887	3.29%
Be 313.107†	969197.8	1.648 mg/L		0.0252	1.648 mg/L	0.0252	1.53%
Ca 317.933†	667872.3	49.63 mg/L		0.834	49.63 mg/L	0.834	1.68%
Cd 228.802†	53311.9	2.057 mg/L		0.0165	2.057 mg/L	0.0165	0.80%
Co 228.616†	18135.0	0.7977 mg/L		0.00631	0.7977 mg/L	0.00631	0.79%
Cr 267.716†	87463.9	1.824 mg/L		0.0028	1.824 mg/L	0.0028	0.15%
Cu 327.393†	114956.5	2.097 mg/L		0.0048	2.097 mg/L	0.0048	0.23%
Fe 238.204†	463701.6	57.87 mg/L		0.156	57.87 mg/L	0.156	0.27%
K 766.490†	64207.4	11.46 mg/L		0.057	11.46 mg/L	0.057	0.50%
Mg 285.213†	208115.3	15.68 mg/L		0.005	15.68 mg/L	0.005	0.03%
Mn 257.610†	214520.6	5.214 mg/L		0.0056	5.214 mg/L	0.0056	0.11%
Mo 202.031†	23548.3	1.401 mg/L		0.0107	1.401 mg/L	0.0107	0.76%
Na 589.592†	49330.6	4.824 mg/L		0.0085	4.824 mg/L	0.0085	0.18%
Ni 231.604†	114208.7	3.061 mg/L		0.0071	3.061 mg/L	0.0071	0.23%
Pb 220.353†	5491.3	0.8965 mg/L		0.00453	0.8965 mg/L	0.00453	0.50%
Sb 206.836†	2460.8	0.9860 mg/L		0.01335	0.9860 mg/L	0.01335	1.35%
Se 196.026†	2757.5	1.604 mg/L		0.0091	1.604 mg/L	0.0091	0.57%
Sn 189.927†	4901.3	0.7608 mg/L		0.00459	0.7608 mg/L	0.00459	0.60%
Ti 337.279†	106330.2	3.102 mg/L		0.0091	3.102 mg/L	0.0091	0.29%
Tl 351.924†	3817.8	2.233 mg/L		0.0169	2.233 mg/L	0.0169	0.76%
V 290.880†	74931.2	1.054 mg/L		0.0029	1.054 mg/L	0.0029	0.27%
Zn 206.200†	87008.0	1.637 mg/L		0.0031	1.637 mg/L	0.0031	0.19%
Zr 343.823†	11050.9	0.0746 mg/L		0.00078	0.0746 mg/L	0.00078	1.05%

Autosampler Location: 53
Date Collected: 4/11/2024 7:35:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Analyte	Mean	Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD		
	Intensity	Conc.	Units		Conc.			Units	
Y radial		167045.2	73.4	%	0.91	73.4	%	0.91	1.25%
Y axial		1546924.9	77.7	%	0.72	77.7	%	0.72	0.93%
Ag 328.068†		17929.0	0.5563	mg/L	0.00510	0.5563	mg/L	0.00510	0.92%
Al 396.153†		526038.1	122.8	mg/L	0.87	122.8	mg/L	0.87	0.71%
As 188.979†		896.4	0.5930	mg/L	0.01032	0.5930	mg/L	0.01032	1.74%
B 208.889†		5711.0	0.8714	mg/L	0.01501	0.8714	mg/L	0.01501	1.72%
Ba 233.527†		14422.2	1.264	mg/L	0.0137	1.264	mg/L	0.0137	1.08%
Be 313.107†		299019.5	0.5069	mg/L	0.00330	0.5069	mg/L	0.00330	0.65%
Ca 317.933†		573838.5	42.64	mg/L	0.415	42.64	mg/L	0.415	0.97%
Cd 228.802†		12826.0	0.5003	mg/L	0.00663	0.5003	mg/L	0.00663	1.32%
Co 228.616†		12800.6	0.5473	mg/L	0.00770	0.5473	mg/L	0.00770	1.41%
Cr 267.716†		35443.6	0.7426	mg/L	0.00922	0.7426	mg/L	0.00922	1.24%
Cu 327.393†		64058.4	1.174	mg/L	0.0085	1.174	mg/L	0.0085	0.73%
Fe 238.204†		1245684.4	155.4	mg/L	1.46	155.4	mg/L	1.46	0.94%
K 766.490†		212480.1	37.91	mg/L	0.270	37.91	mg/L	0.270	0.71%
Mg 285.213†		618902.8	46.66	mg/L	0.255	46.66	mg/L	0.255	0.55%
Mn 257.610†		104945.1	2.554	mg/L	0.0427	2.554	mg/L	0.0427	1.67%
Mo 202.031†		8823.4	0.5248	mg/L	0.00634	0.5248	mg/L	0.00634	1.21%
Na 589.592†		56962.5	5.571	mg/L	0.0360	5.571	mg/L	0.0360	0.65%
Ni 231.604†		23579.4	0.6384	mg/L	0.00853	0.6384	mg/L	0.00853	1.34%
Pb 220.353†		3365.5	0.5557	mg/L	0.00576	0.5557	mg/L	0.00576	1.04%
Sb 206.836†		651.2	0.2686	mg/L	0.00181	0.2686	mg/L	0.00181	0.68%
Se 196.026†		755.8	0.5292	mg/L	0.00616	0.5292	mg/L	0.00616	1.16%
Sn 189.927†		3298.2	0.5243	mg/L	0.00515	0.5243	mg/L	0.00515	0.98%
Ti 337.279†		344123.6	10.04	mg/L	0.065	10.04	mg/L	0.065	0.65%
Tl 351.924†		939.5	0.5562	mg/L	0.01686	0.5562	mg/L	0.01686	3.03%
V 290.880†		53623.7	0.7506	mg/L	0.00280	0.7506	mg/L	0.00280	0.37%
Zn 206.200†		76774.5	1.440	mg/L	0.0128	1.440	mg/L	0.0128	0.89%
Zr 343.823†		3643.1	0.0188	mg/L	0.00042	0.0188	mg/L	0.00042	2.25%

Autosampler Location: 54
Date Collected: 4/11/2024 7:44:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

[illegible]

Cr 267.716†	147073.1	3.072 mg/L	0.8522	3.072 mg/L	0.8522	27.74%
Cu 327.393†	311142.1	5.675 mg/L	1.6828	5.675 mg/L	1.6828	29.65%
Fe 238.204†	1416452.8	176.8 mg/L	0.73	176.8 mg/L	0.73	0.41%
K 766.490†	239815.1	42.79 mg/L	0.254	42.79 mg/L	0.254	0.59%
Mg 285.213†	698523.0	52.67 mg/L	0.130	52.67 mg/L	0.130	0.25%
Mn 257.610†	142772.5	3.474 mg/L	0.0681	3.474 mg/L	0.0681	1.96%
Mo 202.031†	48961.7	2.912 mg/L	0.4739	2.912 mg/L	0.4739	16.27%
Saturated within auto integration window (code 4)						
Na 589.592†	27309.3	2.671 mg/L	0.4111	2.671 mg/L	0.4111	15.39%
Ni 231.604†	105806.0	2.840 mg/L	0.8217	2.840 mg/L	0.8217	28.93%
Pb 220.353†	18027.4	2.939 mg/L	0.6410	2.939 mg/L	0.6410	21.81%
Sb 206.836†	7551.0	3.046 mg/L	0.6878	3.046 mg/L	0.6878	22.58%
Se 196.026†	5164.3	3.053 mg/L	0.6899	3.053 mg/L	0.6899	22.59%
Sn 189.927†	19592.7	3.040 mg/L	0.6716	3.040 mg/L	0.6716	22.09%
Ti 337.279†	395398.1	11.53 mg/L	0.038	11.53 mg/L	0.038	0.33%
Tl 351.924†	5815.8	3.400 mg/L	0.7451	3.400 mg/L	0.7451	21.91%
V 290.880†	217965.9	3.066 mg/L	0.8572	3.066 mg/L	0.8572	27.95%
Zn 206.200†	319253.7	5.988 mg/L	1.7109	5.988 mg/L	1.7109	28.57%
Zr 343.823†	3593.2	0.0175 mg/L	0.00039	0.0175 mg/L	0.00039	2.22%

Batch ID: AVIO 500

Sequence No.: 57

Sample ID: B371015-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 55

Date Collected: 4/11/2024 7:53:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371015-SRL1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	174879.4	76.8 %	0.89	76.8 %	0.89	1.16%
Y axial	1680920.8	84.4 %	0.16	84.4 %	0.16	0.19%
Ag 328.068†	-0.5	0.0012 mg/L	0.00159	0.0012 mg/L	0.00159	128.34%
Al 396.153†	132646.6	30.96 mg/L	0.134	30.96 mg/L	0.134	0.43%
As 188.979†	36.4	0.0291 mg/L	0.00229	0.0291 mg/L	0.00229	7.87%
B 208.889†	47.8	0.0072 mg/L	0.00135	0.0072 mg/L	0.00135	18.80%
Ba 233.527†	2960.1	0.2594 mg/L	0.00172	0.2594 mg/L	0.00172	0.66%
Be 313.107†	980.7	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	6.09%
Ca 317.933†	129919.2	9.655 mg/L	0.0395	9.655 mg/L	0.0395	0.41%
Cd 228.802†	5.4	-0.0003 mg/L	0.00039	-0.0003 mg/L	0.00039	135.96%
Co 228.616†	433.4	0.0148 mg/L	0.00045	0.0148 mg/L	0.00045	3.01%
Cr 267.716†	2849.6	0.0601 mg/L	0.00012	0.0601 mg/L	0.00012	0.21%
Cu 327.393†	1300.4	0.0252 mg/L	0.00059	0.0252 mg/L	0.00059	2.35%
Fe 238.204†	298442.2	37.24 mg/L	0.191	37.24 mg/L	0.191	0.51%
K 766.490†	48760.8	8.700 mg/L	0.0501	8.700 mg/L	0.0501	0.58%
Mg 285.213†	146027.8	11.01 mg/L	0.061	11.01 mg/L	0.061	0.55%
Mn 257.610†	28755.7	0.6998 mg/L	0.00764	0.6998 mg/L	0.00764	1.09%
Mo 202.031†	104.6	0.0062 mg/L	0.00052	0.0062 mg/L	0.00052	8.39%
Na 589.592†	3140.7	0.3071 mg/L	0.01177	0.3071 mg/L	0.01177	3.83%
Ni 231.604†	1194.6	0.0338 mg/L	0.00021	0.0338 mg/L	0.00021	0.63%
Pb 220.353†	110.5	0.0203 mg/L	0.00206	0.0203 mg/L	0.00206	10.16%
Sb 206.836†	1.1	0.0018 mg/L	0.00435	0.0018 mg/L	0.00435	243.05%
Se 196.026†	-24.6	0.0096 mg/L	0.00460	0.0096 mg/L	0.00460	48.06%
Sn 189.927†	39.5	0.0097 mg/L	0.00086	0.0097 mg/L	0.00086	8.94%
Ti 337.279†	78760.1	2.298 mg/L	0.0251	2.298 mg/L	0.0251	1.09%
Tl 351.924†	-21.4	-0.0102 mg/L	0.00064	-0.0102 mg/L	0.00064	6.30%
V 290.880†	4321.8	0.0596 mg/L	0.00230	0.0596 mg/L	0.00230	3.86%
Zn 206.200†	5867.0	0.1100 mg/L	0.00080	0.1100 mg/L	0.00080	0.72%
Zr 343.823†	761.4	0.0037 mg/L	0.00057	0.0037 mg/L	0.00057	15.34%

Batch ID: AVIO 500

Sequence No.: 58

Sample ID: B371015-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 56

Date Collected: 4/11/2024 8:01:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 200

Mean Data: B371015-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	164023.4	72.0	%	1.31	72.0	1.31	1.82%
Y axial	1629775.2	81.8	%	0.78	81.8	0.78	0.96%
Ag 328.068†	-308.4	-0.0036	mg/L	0.00147	-0.0036	0.00147	40.38%
Al 396.153†	602035.5	140.5	mg/L	0.37	140.5	0.37	0.27%
As 188.979†	120.2	0.1039	mg/L	0.00385	0.1039	0.00385	3.71%
B 208.889†	70.8	0.0100	mg/L	0.00097	0.0100	0.00097	9.66%
Ba 233.527†	9656.9	0.8464	mg/L	0.00686	0.8464	0.00686	0.81%
Be 313.107†	3670.7	0.0053	mg/L	0.00020	0.0053	0.00020	3.66%
Ca 317.933†	596329.5	44.32	mg/L	0.199	44.32	0.199	0.45%
Cd 228.802†	21.6	-0.0007	mg/L	0.00037	-0.0007	0.00037	49.87%
Co 228.616†	1856.8	0.0608	mg/L	0.00227	0.0608	0.00227	3.73%
Cr 267.716†	12717.6	0.2688	mg/L	0.00440	0.2688	0.00440	1.64%
Cu 327.393†	6419.2	0.1243	mg/L	0.00137	0.1243	0.00137	1.10%
Fe 238.204†	1355933.2	169.2	mg/L	0.64	169.2	0.64	0.38%
K 766.490†	216908.7	38.70	mg/L	0.086	38.70	0.086	0.22%
Mg 285.213†	660997.8	49.84	mg/L	0.124	49.84	0.124	0.25%
Mn 257.610†	90641.9	2.207	mg/L	0.0231	2.207	0.0231	1.05%
Mo 202.031†	337.2	0.0201	mg/L	0.00013	0.0201	0.00013	0.65%
Na 589.592†	16042.0	1.569	mg/L	0.0334	1.569	0.0334	2.13%
Ni 231.604†	5483.2	0.1550	mg/L	0.00181	0.1550	0.00181	1.17%
Pb 220.353†	447.6	0.0833	mg/L	0.00277	0.0833	0.00277	3.32%
Sb 206.836†	-48.8	-0.0130	mg/L	0.00683	-0.0130	0.00683	52.54%
Se 196.026†	-113.1	0.0434	mg/L	0.00915	0.0434	0.00915	21.09%
Sn 189.927†	160.6	0.0418	mg/L	0.00039	0.0418	0.00039	0.93%
Ti 337.279†	376227.8	10.98	mg/L	0.036	10.98	0.036	0.33%
Tl 351.924†	-2.4	0.0077	mg/L	0.00572	0.0077	0.00572	74.51%
V 290.880†	19363.5	0.2671	mg/L	0.00379	0.2671	0.00379	1.42%
Zn 206.200†	25970.9	0.4871	mg/L	0.01011	0.4871	0.01011	2.08%
Zr 343.823†	3333.4	0.0160	mg/L	0.00061	0.0160	0.00061	3.80%

Batch ID: AVIO 500

Sequence No.: 59

Sample ID: 24D0979-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 57

Date Collected: 4/11/2024 8:10:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0979-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	169067.0	74.2	%	0.55	74.2	0.55	0.74%
Y axial	1654629.2	83.1	%	0.62	83.1	0.62	0.74%
Ag 328.068†	-395.9	-0.0062	mg/L	0.00168	-0.0062	0.00168	27.24%
Al 396.153†	633404.5	147.9	mg/L	1.76	147.9	1.76	1.19%
As 188.979†	150.1	0.1238	mg/L	0.00235	0.1238	0.00235	1.90%
B 208.889†	67.3	0.0093	mg/L	0.00020	0.0093	0.00020	2.18%
Ba 233.527†	14029.8	1.230	mg/L	0.0113	1.230	0.0113	0.92%
Be 313.107†	3660.9	0.0053	mg/L	0.00024	0.0053	0.00024	4.63%
Ca 317.933†	620442.8	46.11	mg/L	0.589	46.11	0.589	1.28%
Cd 228.802†	16.7	-0.0013	mg/L	0.00042	-0.0013	0.00042	32.33%
Co 228.616†	2114.2	0.0719	mg/L	0.00163	0.0719	0.00163	2.27%
Cr 267.716†	13773.7	0.2904	mg/L	0.00364	0.2904	0.00364	1.25%
Cu 327.393†	6798.1	0.1315	mg/L	0.00250	0.1315	0.00250	1.90%
Fe 238.204†	1399148.6	174.6	mg/L	2.30	174.6	2.30	1.31%
K 766.490†	225003.4	40.14	mg/L	0.151	40.14	0.151	0.38%
Mg 285.213†	680842.4	51.33	mg/L	0.581	51.33	0.581	1.13%
Mn 257.610†	137512.2	3.346	mg/L	0.0166	3.346	0.0166	0.49%
Mo 202.031†	392.4	0.0233	mg/L	0.00026	0.0233	0.00026	1.12%
Na 589.592†	16663.1	1.630	mg/L	0.0111	1.630	0.0111	0.68%
Ni 231.604†	5942.3	0.1674	mg/L	0.00218	0.1674	0.00218	1.30%
Pb 220.353†	484.9	0.0899	mg/L	0.00187	0.0899	0.00187	2.08%

Sb 206.836†	-54.9	-0.0154 mg/L	0.00205	-0.0154 mg/L	0.00205	13.35%
Se 196.026†	-131.3	0.0357 mg/L	0.00196	0.0357 mg/L	0.00196	5.50%
Sn 189.927†	152.7	0.0412 mg/L	0.00068	0.0412 mg/L	0.00068	1.65%
Ti 337.279†	389761.9	11.37 mg/L	0.056	11.37 mg/L	0.056	0.50%
Tl 351.924†	-0.2	0.0092 mg/L	0.00248	0.0092 mg/L	0.00248	27.11%
V 290.880†	20730.5	0.2862 mg/L	0.00458	0.2862 mg/L	0.00458	1.60%
Zn 206.200†	28854.2	0.5412 mg/L	0.00704	0.5412 mg/L	0.00704	1.30%
Zr 343.823†	3575.0	0.0175 mg/L	0.00028	0.0175 mg/L	0.00028	1.58%

Batch ID: AVIO 500

Sequence No.: 60

Sample ID: 24D1035-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 58

Date Collected: 4/11/2024 8:19:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1035-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	162704.2	71.4 %		1.19	71.4 %	1.19	1.67%
Y axial	1671012.8	83.9 %		2.24	83.9 %	2.24	2.68%
Ag 328.068†	-232.3	-0.0005 mg/L		0.00129	-0.0005 mg/L	0.00129	278.85%
Al 396.153†	585378.9	136.7 mg/L		0.51	136.7 mg/L	0.51	0.38%
As 188.979†	261.4	0.1996 mg/L		0.01129	0.1996 mg/L	0.01129	5.66%
B 208.889†	167.6	0.0250 mg/L		0.00169	0.0250 mg/L	0.00169	6.76%
Ba 233.527†	4309.7	0.3777 mg/L		0.00805	0.3777 mg/L	0.00805	2.13%
Be 313.107†	4932.5	0.0071 mg/L		0.00034	0.0071 mg/L	0.00034	4.81%
Ca 317.933†	351259.3	26.10 mg/L		0.165	26.10 mg/L	0.165	0.63%
Cd 228.802†	143.9	0.0016 mg/L		0.00059	0.0016 mg/L	0.00059	36.88%
Co 228.616†	2656.8	0.1039 mg/L		0.00278	0.1039 mg/L	0.00278	2.67%
Cr 267.716†	14418.8	0.3053 mg/L		0.00790	0.3053 mg/L	0.00790	2.59%
Cu 327.393†	25979.6	0.4780 mg/L		0.00262	0.4780 mg/L	0.00262	0.55%
Fe 238.204†	1901944.3	237.3 mg/L		1.50	237.3 mg/L	1.50	0.63%
K 766.490†	69911.4	12.47 mg/L		0.066	12.47 mg/L	0.066	0.53%
Mg 285.213†	609966.8	46.05 mg/L		0.171	46.05 mg/L	0.171	0.37%
Mn 257.610†	161982.9	3.943 mg/L		0.0234	3.943 mg/L	0.0234	0.59%
Mo 202.031†	422.3	0.0251 mg/L		0.00145	0.0251 mg/L	0.00145	5.78%
Na 589.592†	50276.8	4.917 mg/L		0.0278	4.917 mg/L	0.0278	0.56%
Ni 231.604†	7618.3	0.2155 mg/L		0.00489	0.2155 mg/L	0.00489	2.27%
Pb 220.353†	10981.0	1.789 mg/L		0.0360	1.789 mg/L	0.0360	2.01%
Sb 206.836†	-5.5	0.0000 mg/L		0.00623	0.0000 mg/L	0.00623	>999.9%
Se 196.026†	-148.9	0.0658 mg/L		0.00164	0.0658 mg/L	0.00164	2.49%
Sn 189.927†	217.3	0.0442 mg/L		0.00146	0.0442 mg/L	0.00146	3.30%
Ti 337.279†	236134.4	6.888 mg/L		0.0276	6.888 mg/L	0.0276	0.40%
Tl 351.924†	-59.9	-0.0035 mg/L		0.00476	-0.0035 mg/L	0.00476	135.47%
V 290.880†	26817.2	0.3674 mg/L		0.00174	0.3674 mg/L	0.00174	0.47%
Zn 206.200†	71064.9	1.331 mg/L		0.0018	1.331 mg/L	0.0018	0.13%
Zr 343.823†	8174.1	0.0469 mg/L		0.00188	0.0469 mg/L	0.00188	4.01%

Batch ID: AVIO 500

Sequence No.: 61

Sample ID: 24D1075-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 59

Date Collected: 4/11/2024 8:28:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	164038.7	72.0 %		1.47	72.0 %	1.47	2.04%
Y axial	1651274.2	82.9 %		0.83	82.9 %	0.83	1.00%
Ag 328.068†	-101.0	0.0141 mg/L		0.00140	0.0141 mg/L	0.00140	9.92%
Al 396.153†	783992.7	183.0 mg/L		1.13	183.0 mg/L	1.13	0.62%
As 188.979†	67.7	0.0844 mg/L		0.00500	0.0844 mg/L	0.00500	5.92%

B	208.889†	703.8	0.1094	mg/L	0.00368	0.1094	mg/L	0.00368	3.37%
Ba	233.527†	16092.5	1.410	mg/L	0.0161	1.410	mg/L	0.0161	1.14%
Be	313.107†	6593.5	0.0076	mg/L	0.00007	0.0076	mg/L	0.00007	0.95%
Ca	317.933†	2946147.5	218.9	mg/L	1.32	218.9	mg/L	1.32	0.60%
Cd	228.802†	144.0	0.0055	mg/L	0.00065	0.0055	mg/L	0.00065	11.75%
Co	228.616†	3941.4	0.1575	mg/L	0.00463	0.1575	mg/L	0.00463	2.94%
Cr	267.716†	9066.5	0.1946	mg/L	0.00414	0.1946	mg/L	0.00414	2.13%
Cu	327.393†	39144.8	0.7232	mg/L	0.00288	0.7232	mg/L	0.00288	0.40%
Fe	238.204†	2378092.7	296.7	mg/L	1.79	296.7	mg/L	1.79	0.60%
K	766.490†	105574.9	18.84	mg/L	0.224	18.84	mg/L	0.224	1.19%
Mg	285.213†	1000028.2	75.39	mg/L	0.461	75.39	mg/L	0.461	0.61%
Mn	257.610†	250888.4	6.105	mg/L	0.0435	6.105	mg/L	0.0435	0.71%
Mo	202.031†	503.3	0.0299	mg/L	0.00095	0.0299	mg/L	0.00095	3.19%
Na	589.592†	100929.6	9.870	mg/L	0.0660	9.870	mg/L	0.0660	0.67%
Ni	231.604†	7479.5	0.2143	mg/L	0.00550	0.2143	mg/L	0.00550	2.57%
Pb	220.353†	13310.9	2.170	mg/L	0.0542	2.170	mg/L	0.0542	2.50%
Sb	206.836†	-30.0	-0.0049	mg/L	0.00546	-0.0049	mg/L	0.00546	110.99%
Se	196.026†	-198.1	0.0746	mg/L	0.00200	0.0746	mg/L	0.00200	2.68%
Sn	189.927†	410.4	0.0774	mg/L	0.00138	0.0774	mg/L	0.00138	1.78%
Ti	337.279†	312304.9	9.110	mg/L	0.0652	9.110	mg/L	0.0652	0.72%
Tl	351.924†	-59.3	0.0034	mg/L	0.00501	0.0034	mg/L	0.00501	145.87%
V	290.880†	75664.7	1.055	mg/L	0.0063	1.055	mg/L	0.0063	0.60%
Zn	206.200†	94453.8	1.767	mg/L	0.0079	1.767	mg/L	0.0079	0.45%
Zr	343.823†	18163.0	0.1141	mg/L	0.00326	0.1141	mg/L	0.00326	2.85%

Sample Prep Vol:

Sample Prep Vol:

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	192083.6	84.4 %	0.60	84.4 %	0.60	0.71%
Y axial	1901390.6	95.4 %	0.45	95.4 %	0.45	0.47%
Ag 328.068†	80379.8	2.451 mg/L	0.0172	2.451 mg/L	0.0172	0.70%
QC value						
within limits for Ag 328.068						
Recovery = 98.05%						
Al 396.153†	44725.8	10.07 mg/L	0.063	10.07 mg/L	0.063	0.62%
QC value						
within limits for Al 396.153						
Recovery = 100.67%						
As 188.979†	8557.6	5.425 mg/L	0.0205	5.425 mg/L	0.0205	0.38%
QC value						
within limits for As 188.979						
Recovery = 108.51%						
B 208.889†	33548.2	5.000 mg/L	0.0541	5.000 mg/L	0.0541	1.08%
QC value						
within limits for B 208.889						
Recovery = 100.01%						
Ba 233.527†	50863.3	4.458 mg/L	0.0028	4.458 mg/L	0.0028	0.06%
QC value						
less than the lower limit for Ba 233.527						
Recovery = 89.16%						
Be 313.107†	2863989.0	4.863 mg/L	0.0588	4.863 mg/L	0.0588	1.21%
QC value						
within limits for Be 313.107						
Recovery = 97.25%						
Ca 317.933†	136384.1	10.14 mg/L	0.024	10.14 mg/L	0.024	0.23%
QC value						
within limits for Ca 317.933						
Recovery = 101.35%						
Cd 228.802†	129706.5	5.064 mg/L	0.0269	5.064 mg/L	0.0269	0.53%
QC value						
within limits for Cd 228.802						
Recovery = 101.29%						
Co 228.616†	116567.3	5.152 mg/L	0.0342	5.152 mg/L	0.0342	0.66%
QC value						
within limits for Co 228.616						
Recovery = 103.04%						
Cr 267.716†	245794.0	5.129 mg/L	0.0225	5.129 mg/L	0.0225	0.44%
QC value						
within limits for Cr 267.716						
Recovery = 102.58%						

Cu 327.393†	274806.3	5.035 mg/L	0.0158	5.035 mg/L	0.0158	0.31%
QC value within limits for Cu 327.393 Recovery = 100.70%						
Fe 238.204†	39684.0	5.014 mg/L	0.0069	5.014 mg/L	0.0069	0.14%
QC value within limits for Fe 238.204 Recovery = 100.29%						
K 766.490†	59714.6	10.65 mg/L	0.079	10.65 mg/L	0.079	0.74%
QC value within limits for K 766.490 Recovery = 106.54%						
Mg 285.213†	129797.8	9.750 mg/L	0.0367	9.750 mg/L	0.0367	0.38%
QC value within limits for Mg 285.213 Recovery = 97.50%						
Mn 257.610†	205877.3	5.003 mg/L	0.0166	5.003 mg/L	0.0166	0.33%
QC value within limits for Mn 257.610 Recovery = 100.06%						
Mo 202.031†	86780.9	5.162 mg/L	0.0336	5.162 mg/L	0.0336	0.65%
QC value within limits for Mo 202.031 Recovery = 103.24%						
Na 589.592†	104518.8	10.22 mg/L	0.043	10.22 mg/L	0.043	0.42%
QC value within limits for Na 589.592 Recovery = 102.21%						
Ni 231.604†	194733.1	5.213 mg/L	0.0378	5.213 mg/L	0.0378	0.73%
QC value within limits for Ni 231.604 Recovery = 104.25%						
Pb 220.353†	32803.9	5.333 mg/L	0.0557	5.333 mg/L	0.0557	1.04%
QC value within limits for Pb 220.353 Recovery = 106.67%						
Sb 206.836†	13051.7	5.256 mg/L	0.0508	5.256 mg/L	0.0508	0.97%
QC value within limits for Sb 206.836 Recovery = 105.12%						
Se 196.026†	9623.9	5.482 mg/L	0.0452	5.482 mg/L	0.0452	0.82%
QC value within limits for Se 196.026 Recovery = 109.63%						
Sn 189.927†	35972.6	5.557 mg/L	0.0413	5.557 mg/L	0.0413	0.74%
QC value greater than the upper limit for Sn 189.927 Recovery = 111.13%						
Ti 337.279†	169940.1	4.955 mg/L	0.0079	4.955 mg/L	0.0079	0.16%
QC value within limits for Ti 337.279 Recovery = 99.10%						
Tl 351.924†	4980.6	2.978 mg/L	0.0251	2.978 mg/L	0.0251	0.84%
QC value greater than the upper limit for Tl 351.924 Recovery = 119.11%						
V 290.880†	358837.3	5.059 mg/L	0.0275	5.059 mg/L	0.0275	0.54%
QC value within limits for V 290.880 Recovery = 101.18%						
Zn 206.200†	292269.6	5.493 mg/L	0.0352	5.493 mg/L	0.0352	0.64%
QC value within limits for Zn 206.200 Recovery = 109.86%						
Zr 343.823†	748280.2	5.222 mg/L	0.0273	5.222 mg/L	0.0273	0.52%
QC value within limits for Zr 343.823 Recovery = 104.44%						
QC Failed. Continue with analysis.						

Batch ID: AVIO 500

Sequence No.: 63

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 9:18:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	222498.0	97.7 %	0.99	97.7 %	0.99	1.01%
Y axial	2062552.5	104 %	1.10	104 %	1.10	1.07%
Ag 328.068†	65.6	0.0020 mg/L	0.00095	0.0020 mg/L	0.00095	47.59%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-20.2	-0.0048 mg/L	0.00311	-0.0048 mg/L	0.00311	64.43%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	8.9	0.0057 mg/L	0.00109	0.0057 mg/L	0.00109	19.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	22.3	0.0034 mg/L	0.00078	0.0034 mg/L	0.00078	22.80%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	7.6	0.0007 mg/L	0.00031	0.0007 mg/L	0.00031	46.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-401.1	-0.0007 mg/L	0.00006	-0.0007 mg/L	0.00006	8.86%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-42.5	-0.0032 mg/L	0.00378	-0.0032 mg/L	0.00378	119.78%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-17.7	-0.0009 mg/L	0.00011	-0.0009 mg/L	0.00011	12.43%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-15.2	-0.0007 mg/L	0.00064	-0.0007 mg/L	0.00064	95.61%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	4.1	0.0001 mg/L	0.00029	0.0001 mg/L	0.00029	339.71%

QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	-65.8	-0.0012 mg/L	0.00072	-0.0012 mg/L	0.00072	60.24%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	26.3	0.0033 mg/L	0.00038	0.0033 mg/L	0.00038	11.53%	
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	-292.9	-0.0523 mg/L	0.00134	-0.0523 mg/L	0.00134	2.56%	
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	-18.6	-0.0014 mg/L	0.00049	-0.0014 mg/L	0.00049	35.41%	
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	-9.4	-0.0002 mg/L	0.00023	-0.0002 mg/L	0.00023	101.07%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	29.4	0.0018 mg/L	0.00040	0.0018 mg/L	0.00040	22.99%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-662.1	-0.0647 mg/L	0.00548	-0.0647 mg/L	0.00548	8.47%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-5.6	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	113.03%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	21.1	0.0034 mg/L	0.00079	0.0034 mg/L	0.00079	23.02%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-6.3	-0.0025 mg/L	0.00639	-0.0025 mg/L	0.00639	255.71%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.9	0.0034 mg/L	0.00384	0.0034 mg/L	0.00384	113.34%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	8.3	0.0013 mg/L	0.00037	0.0013 mg/L	0.00037	28.51%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	14.6	0.0004 mg/L	0.00088	0.0004 mg/L	0.00088	207.25%	
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 351.924†	-4.6	-0.0027 mg/L	0.00599	-0.0027 mg/L	0.00599	224.90%	
QC value within limits for Tl 351.924 Recovery = Not calculated							
V 290.880†	20.0	0.0003 mg/L	0.00063	0.0003 mg/L	0.00063	223.27%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	30.3	0.0006 mg/L	0.00035	0.0006 mg/L	0.00035	61.36%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
Zr 343.823†	129.1	0.0009 mg/L	0.00046	0.0009 mg/L	0.00046	50.97%	
All analyte(s) passed QC.							

Batch ID: AVIO 500

Sequence No.: 64

Sample ID: 24D1075-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 60

Date Collected: 4/11/2024 9:26:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	206883.1	90.8 %		0.35	90.8 %	0.35	0.39%
Y axial	1867518.6	93.7 %		0.55	93.7 %	0.55	0.59%
Ag 328.068†	-584.9	-0.0028 mg/L		0.00125	-0.0028 mg/L	0.00125	44.82%
Al 396.153†	650197.3	151.7 mg/L		1.20	151.7 mg/L	1.20	0.79%
As 188.979†	105.7	0.1099 mg/L		0.00086	0.1099 mg/L	0.00086	0.78%
B 208.889†	653.6	0.1014 mg/L		0.00076	0.1014 mg/L	0.00076	0.75%
Ba 233.527†	23970.4	2.101 mg/L		0.0054	2.101 mg/L	0.0054	0.26%
Be 313.107†	5481.1	0.0069 mg/L		0.00004	0.0069 mg/L	0.00004	0.51%
Ca 317.933†	2746911.9	204.1 mg/L		1.88	204.1 mg/L	1.88	0.92%
Cd 228.802†	162.5	0.0058 mg/L		0.00083	0.0058 mg/L	0.00083	14.50%
Co 228.616†	3257.1	0.1290 mg/L		0.00110	0.1290 mg/L	0.00110	0.86%
Cr 267.716†	13448.7	0.2858 mg/L		0.00243	0.2858 mg/L	0.00243	0.85%
Cu 327.393†	65607.1	1.205 mg/L		0.0079	1.205 mg/L	0.0079	0.66%
Fe 238.204†	2486234.0	310.2 mg/L		2.66	310.2 mg/L	2.66	0.86%
K 766.490†	94600.8	16.88 mg/L		0.016	16.88 mg/L	0.016	0.09%
Mg 285.213†	900883.1	67.94 mg/L		0.638	67.94 mg/L	0.638	0.94%
Mn 257.610†	282469.4	6.872 mg/L		0.0394	6.872 mg/L	0.0394	0.57%
Mo 202.031†	503.9	0.0300 mg/L		0.00065	0.0300 mg/L	0.00065	2.17%
Na 589.592†	60854.3	5.951 mg/L		0.0196	5.951 mg/L	0.0196	0.33%
Ni 231.604†	7187.6	0.2070 mg/L		0.00169	0.2070 mg/L	0.00169	0.81%
Pb 220.353†	22139.1	3.599 mg/L		0.0338	3.599 mg/L	0.0338	0.94%

Sb 206.836†	-7.5	0.0017 mg/L	0.00503	0.0017 mg/L	0.00503	289.14%
Se 196.026†	-186.3	0.0895 mg/L	0.00480	0.0895 mg/L	0.00480	5.37%
Sn 189.927†	983.5	0.1651 mg/L	0.00106	0.1651 mg/L	0.00106	0.64%
Ti 337.279†	296390.9	8.646 mg/L	0.0287	8.646 mg/L	0.0287	0.33%
Tl 351.924†	-35.8	0.0216 mg/L	0.01197	0.0216 mg/L	0.01197	55.47%
V 290.880†	51376.0	0.7111 mg/L	0.00506	0.7111 mg/L	0.00506	0.71%
Zn 206.200†	175717.1	3.288 mg/L	0.0285	3.288 mg/L	0.0285	0.87%
Zr 343.823†	19760.7	0.1246 mg/L	0.00099	0.1246 mg/L	0.00099	0.79%

Batch ID: AVIO 500

Sequence No.: 65

Sample ID: 24D1075-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 61

Date Collected: 4/11/2024 9:35:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	205776.0	90.4 %		1.21	90.4 %	1.21	1.33%
Y axial	1875488.3	94.1 %		1.07	94.1 %	1.07	1.13%
Ag 328.068†	-464.6	-0.0018 mg/L		0.00119	-0.0018 mg/L	0.00119	65.93%
Al 396.153†	564940.9	131.8 mg/L		0.30	131.8 mg/L	0.30	0.23%
As 188.979†	240.8	0.1931 mg/L		0.00693	0.1931 mg/L	0.00693	3.59%
B 208.889†	2920.8	0.4595 mg/L		0.00530	0.4595 mg/L	0.00530	1.15%
Ba 233.527†	38914.0	3.411 mg/L		0.0256	3.411 mg/L	0.0256	0.75%
Be 313.107†	5560.3	0.0073 mg/L		0.00019	0.0073 mg/L	0.00019	2.61%
Ca 317.933†	1949386.2	144.9 mg/L		0.76	144.9 mg/L	0.76	0.52%
Cd 228.802†	161.0	0.0037 mg/L		0.00015	0.0037 mg/L	0.00015	4.11%
Co 228.616†	2942.2	0.1195 mg/L		0.00187	0.1195 mg/L	0.00187	1.56%
Cr 267.716†	10397.7	0.2204 mg/L		0.00231	0.2204 mg/L	0.00231	1.05%
Cu 327.393†	56501.1	1.037 mg/L		0.0099	1.037 mg/L	0.0099	0.95%
Fe 238.204†	2345290.2	292.7 mg/L		1.11	292.7 mg/L	1.11	0.38%
K 766.490†	89410.6	15.95 mg/L		0.040	15.95 mg/L	0.040	0.25%
Mg 285.213†	727583.8	54.91 mg/L		0.150	54.91 mg/L	0.150	0.27%
Mn 257.610†	392663.6	9.550 mg/L		0.0288	9.550 mg/L	0.0288	0.30%
Mo 202.031†	424.3	0.0252 mg/L		0.00022	0.0252 mg/L	0.00022	0.88%
Na 589.592†	29841.4	2.918 mg/L		0.0074	2.918 mg/L	0.0074	0.25%
Ni 231.604†	6463.0	0.1862 mg/L		0.00097	0.1862 mg/L	0.00097	0.52%
Pb 220.353†	24230.8	3.936 mg/L		0.0255	3.936 mg/L	0.0255	0.65%
Sb 206.836†	-7.0	0.0016 mg/L		0.00525	0.0016 mg/L	0.00525	320.01%
Se 196.026†	-165.1	0.0883 mg/L		0.00167	0.0883 mg/L	0.00167	1.89%
Sn 189.927†	1040.7	0.1719 mg/L		0.00208	0.1719 mg/L	0.00208	1.21%
Ti 337.279†	252056.6	7.353 mg/L		0.0174	7.353 mg/L	0.0174	0.24%
Tl 351.924†	-55.5	0.0089 mg/L		0.01073	0.0089 mg/L	0.01073	120.75%
V 290.880†	46648.5	0.6443 mg/L		0.00656	0.6443 mg/L	0.00656	1.02%
Zn 206.200†	164016.1	3.069 mg/L		0.0292	3.069 mg/L	0.0292	0.95%
Zr 343.823†	14115.9	0.0860 mg/L		0.00090	0.0860 mg/L	0.00090	1.04%

Batch ID: AVIO 500

Sequence No.: 66

Sample ID: 24D1075-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 62

Date Collected: 4/11/2024 9:44:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1075-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	209405.2	92.0 %		0.51	92.0 %	0.51	0.55%
Y axial	1926394.3	96.7 %		0.44	96.7 %	0.44	0.46%
Ag 328.068†	-393.2	0.0005 mg/L		0.00201	0.0005 mg/L	0.00201	399.49%
Al 396.153†	594357.9	138.7 mg/L		0.21	138.7 mg/L	0.21	0.15%
As 188.979†	560.2	0.4030 mg/L		0.00765	0.4030 mg/L	0.00765	1.90%

B	208.889†	505.4	0.0780 mg/L	0.00051	0.0780 mg/L	0.00051	0.66%
Ba	233.527†	48108.2	4.217 mg/L	0.0302	4.217 mg/L	0.0302	0.72%
Be	313.107†	6162.1	0.0079 mg/L	0.00019	0.0079 mg/L	0.00019	2.38%
Ca	317.933†	1298608.8	96.50 mg/L	0.204	96.50 mg/L	0.204	0.21%
Cd	228.802†	265.0	0.0025 mg/L	0.00034	0.0025 mg/L	0.00034	13.82%
Co	228.616†	3278.0	0.1358 mg/L	0.00133	0.1358 mg/L	0.00133	0.98%
Cr	267.716†	14254.5	0.3034 mg/L	0.00096	0.3034 mg/L	0.00096	0.32%
Cu	327.393†	107709.8	1.968 mg/L	0.0218	1.968 mg/L	0.0218	1.11%
Fe	238.204†	2746487.0	342.7 mg/L	0.76	342.7 mg/L	0.76	0.22%
K	766.490†	88272.4	15.75 mg/L	0.023	15.75 mg/L	0.023	0.15%
Mg	285.213†	655096.5	49.50 mg/L	0.110	49.50 mg/L	0.110	0.22%
Mn	257.610†	286215.9	6.964 mg/L	0.0161	6.964 mg/L	0.0161	0.23%
Mo	202.031†	508.6	0.0303 mg/L	0.00029	0.0303 mg/L	0.00029	0.96%
Na	589.592†	32809.3	3.209 mg/L	0.0160	3.209 mg/L	0.0160	0.50%
Ni	231.604†	8175.0	0.2347 mg/L	0.00163	0.2347 mg/L	0.00163	0.70%
Pb	220.353†	27894.8	4.530 mg/L	0.0629	4.530 mg/L	0.0629	1.39%
Sb	206.836†	41.9	0.0199 mg/L	0.00474	0.0199 mg/L	0.00474	23.89%
Se	196.026†	-200.8	0.1022 mg/L	0.00529	0.1022 mg/L	0.00529	5.17%
Sn	189.927†	2930.4	0.4631 mg/L	0.00312	0.4631 mg/L	0.00312	0.67%
Ti	337.279†	244111.0	7.121 mg/L	0.0127	7.121 mg/L	0.0127	0.18%
Tl	351.924†	-71.8	0.0094 mg/L	0.00711	0.0094 mg/L	0.00711	75.72%
V	290.880†	54876.7	0.7564 mg/L	0.00900	0.7564 mg/L	0.00900	1.19%
Zn	206.200†	141122.3	2.642 mg/L	0.0398	2.642 mg/L	0.0398	1.51%
Zr	343.823†	14444.9	0.0861 mg/L	0.00047	0.0861 mg/L	0.00047	0.54%

Batch ID: AVIO 500

Sequence No.: 67

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 11

Date Collected: 4/11/2024 9:52:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

		Mean Corrected		Calib.	Sample				
Analyte		Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial		205511.6	90.2	%	0.77	90.2	%	0.77	0.85%
Y axial		1820049.6	91.4	%	0.17	91.4	%	0.17	0.18%
Ag	328.068†	-516.9	-0.0059	mg/L	0.00045	-0.0059	mg/L	0.00045	7.64%
	QC value	within limits	for Ag	328.068	Recovery =	Not calculated			
Al	396.153†	1040338.7	242.8	mg/L	0.22	242.8	mg/L	0.22	0.09%
	QC value	within limits	for Al	396.153	Recovery =	97.12%			
As	188.979†	-6.9	0.0071	mg/L	0.00169	0.0071	mg/L	0.00169	24.02%
	QC value	within limits	for As	188.979	Recovery =	Not calculated			
B	208.889†	1.2	-0.0020	mg/L	0.00196	-0.0020	mg/L	0.00196	98.29%
	QC value	within limits	for B	208.889	Recovery =	Not calculated			
Ba	233.527†	91.7	0.0080	mg/L	0.00014	0.0080	mg/L	0.00014	1.75%
	QC value	within limits	for Ba	233.527	Recovery =	Not calculated			
Be	313.107†	-282.9	-0.0004	mg/L	0.00004	-0.0004	mg/L	0.00004	10.11%
	QC value	within limits	for Be	313.107	Recovery =	Not calculated			
Ca	317.933†	3240040.0	240.8	mg/L	0.42	240.8	mg/L	0.42	0.18%
	QC value	within limits	for Ca	317.933	Recovery =	96.31%			
Cd	228.802†	-26.1	-0.0009	mg/L	0.00022	-0.0009	mg/L	0.00022	24.20%
	QC value	within limits	for Cd	228.802	Recovery =	Not calculated			
Co	228.616†	-48.6	-0.0021	mg/L	0.00021	-0.0021	mg/L	0.00021	9.83%
	QC value	within limits	for Co	228.616	Recovery =	Not calculated			
Cr	267.716†	290.9	0.0085	mg/L	0.00053	0.0085	mg/L	0.00053	6.22%
	QC value	within limits	for Cr	267.716	Recovery =	Not calculated			
Cu	327.393†	-700.1	-0.0084	mg/L	0.00169	-0.0084	mg/L	0.00169	20.14%
	QC value	within limits	for Cu	327.393	Recovery =	Not calculated			
Fe	238.204†	768025.3	95.84	mg/L	0.097	95.84	mg/L	0.097	0.10%
	QC value	within limits	for Fe	238.204	Recovery =	95.84%			
K	766.490†	-141.5	-0.0252	mg/L	0.02960	-0.0252	mg/L	0.02960	117.26%
	QC value	within limits	for K	766.490	Recovery =	Not calculated			
Mg	285.213†	2961503.9	222.8	mg/L	0.26	222.8	mg/L	0.26	0.12%
	QC value	within limits	for Mg	285.213	Recovery =	89.12%			
Mn	257.610†	-270.1	-0.0040	mg/L	0.00030	-0.0040	mg/L	0.00030	7.63%
	QC value	within limits	for Mn	257.610	Recovery =	Not calculated			

Mo 202.031†	646.2	0.0384 mg/L	0.00066	0.0384 mg/L	0.00066	1.72%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-74.3	-0.0073 mg/L	0.00333	-0.0073 mg/L	0.00333	45.84%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-234.7	-0.0014 mg/L	0.00364	-0.0014 mg/L	0.00364	256.30%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-97.8	0.0058 mg/L	0.00176	0.0058 mg/L	0.00176	30.42%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	11.8	0.0053 mg/L	0.00910	0.0053 mg/L	0.00910	171.02%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-62.9	0.0261 mg/L	0.00181	0.0261 mg/L	0.00181	6.91%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-47.5	-0.0073 mg/L	0.00064	-0.0073 mg/L	0.00064	8.71%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-37.3	-0.0011 mg/L	0.00090	-0.0011 mg/L	0.00090	82.58%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-49.1	-0.0101 mg/L	0.01420	-0.0101 mg/L	0.01420	140.97%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	-1198.6	-0.0003 mg/L	0.00090	-0.0003 mg/L	0.00090	349.91%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	16.0	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	38.07%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	578.8	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	197.99%
All analyte(s) passed QC.						

Batch ID: AVIO 500

Sequence No.: 68

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 12

Date Collected: 4/11/2024 10:00:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	206863.4	90.8 %		0.35	90.8 %	0.35	0.39%
Y axial	1838894.5	92.3 %		0.45	92.3 %	0.45	0.49%
Ag 328.068†	12588.9	0.4001 mg/L		0.00875	0.4001 mg/L	0.00875	2.19%
QC value within limits for Ag 328.068	Recovery = 100.02%						
Al 396.153†	1040774.7	242.9 mg/L		0.72	242.9 mg/L	0.72	0.30%
QC value within limits for Al 396.153	Recovery = 97.17%						
As 188.979†	311.7	0.2085 mg/L		0.00239	0.2085 mg/L	0.00239	1.15%
QC value within limits for As 188.979	Recovery = 104.24%						
B 208.889†	4.0	-0.0016 mg/L		0.00069	-0.0016 mg/L	0.00069	43.23%
QC value within limits for B 208.889	Recovery = Not calculated						
Ba 233.527†	10942.6	0.9591 mg/L		0.00146	0.9591 mg/L	0.00146	0.15%
QC value within limits for Ba 233.527	Recovery = 95.91%						
Be 313.107†	563114.2	0.9560 mg/L		0.00236	0.9560 mg/L	0.00236	0.25%
QC value within limits for Be 313.107	Recovery = 95.60%						
Ca 317.933†	3250245.9	241.5 mg/L		0.89	241.5 mg/L	0.89	0.37%
QC value within limits for Ca 317.933	Recovery = 96.62%						
Cd 228.802†	50707.9	2.030 mg/L		0.0080	2.030 mg/L	0.0080	0.39%
QC value within limits for Cd 228.802	Recovery = 101.48%						
Co 228.616†	20393.8	0.9025 mg/L		0.00214	0.9025 mg/L	0.00214	0.24%
QC value within limits for Co 228.616	Recovery = 90.25%						
Cr 267.716†	48227.6	1.009 mg/L		0.0053	1.009 mg/L	0.0053	0.53%
QC value within limits for Cr 267.716	Recovery = 100.86%						
Cu 327.393†	49910.3	0.9134 mg/L		0.00699	0.9134 mg/L	0.00699	0.76%
QC value within limits for Cu 327.393	Recovery = 91.34%						
Fe 238.204†	772842.5	96.45 mg/L		0.270	96.45 mg/L	0.270	0.28%
QC value within limits for Fe 238.204	Recovery = 96.45%						
K 766.490†	-304.9	-0.0544 mg/L		0.03395	-0.0544 mg/L	0.03395	62.42%
QC value within limits for K 766.490	Recovery = Not calculated						
Mg 285.213†	2956129.7	222.4 mg/L		0.56	222.4 mg/L	0.56	0.25%
QC value within limits for Mg 285.213	Recovery = 88.96%						
Mn 257.610†	38020.7	0.9265 mg/L		0.00102	0.9265 mg/L	0.00102	0.11%
QC value within limits for Mn 257.610	Recovery = 92.65%						

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.		
Y radial	209243.1	91.9 %	0.19	91.9 %	0.19	0.21%	
Y axial	1977164.4	99.3 %	0.87	99.3 %	0.87	0.88%	
Ag 328.068†	81581.7	2.487 mg/L	0.0434	2.487 mg/L	0.0434	1.75%	
QC value within limits for Ag		328.068	Recovery = 99.48%				
Al 396.153†	41988.2	9.433 mg/L	0.0278	9.433 mg/L	0.0278	0.29%	
QC value within limits for Al		396.153	Recovery = 94.33%				
As 188.979†	8070.5	5.115 mg/L	0.0747	5.115 mg/L	0.0747	1.46%	
QC value within limits for As		188.979	Recovery = 102.31%				
B 208.889†	31227.8	4.642 mg/L	0.1069	4.642 mg/L	0.1069	2.30%	
QC value within limits for B		208.889	Recovery = 92.83%				
Ba 233.527†	51945.0	4.553 mg/L	0.0501	4.553 mg/L	0.0501	1.10%	
QC value within limits for Ba		233.527	Recovery = 91.06%				
Be 313.107†	2776433.6	4.714 mg/L	0.0454	4.714 mg/L	0.0454	0.96%	
QC value within limits for Be		313.107	Recovery = 94.27%				
Ca 317.933†	130989.1	9.734 mg/L	0.0343	9.734 mg/L	0.0343	0.35%	
QC value within limits for Ca		317.933	Recovery = 97.34%				
Cd 228.802†	125643.5	4.910 mg/L	0.0268	4.910 mg/L	0.0268	0.55%	
QC value within limits for Cd		228.802	Recovery = 98.20%				
Co 228.616†	113406.6	5.012 mg/L	0.0157	5.012 mg/L	0.0157	0.31%	
QC value within limits for Co		228.616	Recovery = 100.25%				
Cr 267.716†	241811.7	5.046 mg/L	0.0146	5.046 mg/L	0.0146	0.29%	
QC value within limits for Cr		267.716	Recovery = 100.92%				
Cu 327.393†	265188.3	4.860 mg/L	0.0240	4.860 mg/L	0.0240	0.49%	
QC value within limits for Cu		327.393	Recovery = 97.21%				
Fe 238.204†	38532.5	4.869 mg/L	0.0151	4.869 mg/L	0.0151	0.31%	
QC value within limits for Fe		238.204	Recovery = 97.38%				
K 766.490†	54837.1	9.784 mg/L	0.0592	9.784 mg/L	0.0592	0.61%	
QC value within limits for K		766.490	Recovery = 97.84%				
Mg 285.213†	126093.1	9.471 mg/L	0.0237	9.471 mg/L	0.0237	0.25%	
QC value within limits for Mg		285.213	Recovery = 94.71%				
Mn 257.610†	198467.6	4.823 mg/L	0.0114	4.823 mg/L	0.0114	0.24%	
QC value within limits for Mn		257.610	Recovery = 96.46%				

Mo 202.031†	84578.6	5.031 mg/L	0.0198	5.031 mg/L	0.0198	0.39%
QC value within limits for Mo 202.031			Recovery = 100.62%			
Na 589.592†	100229.1	9.802 mg/L	0.0324	9.802 mg/L	0.0324	0.33%
QC value within limits for Na 589.592			Recovery = 98.02%			
Ni 231.604†	190766.9	5.106 mg/L	0.0105	5.106 mg/L	0.0105	0.21%
QC value within limits for Ni 231.604			Recovery = 102.13%			
Pb 220.353†	29350.1	4.773 mg/L	0.0897	4.773 mg/L	0.0897	1.88%
QC value within limits for Pb 220.353			Recovery = 95.46%			
Sb 206.836†	12127.5	4.884 mg/L	0.0887	4.884 mg/L	0.0887	1.82%
QC value within limits for Sb 206.836			Recovery = 97.67%			
Se 196.026†	8779.4	5.001 mg/L	0.1112	5.001 mg/L	0.1112	2.22%
QC value within limits for Se 196.026			Recovery = 100.01%			
Sn 189.927†	33286.8	5.142 mg/L	0.1152	5.142 mg/L	0.1152	2.24%
QC value within limits for Sn 189.927			Recovery = 102.84%			
Ti 337.279†	163726.2	4.774 mg/L	0.0141	4.774 mg/L	0.0141	0.30%
QC value within limits for Ti 337.279			Recovery = 95.48%			
Tl 351.924†	4701.3	2.817 mg/L	0.0457	2.817 mg/L	0.0457	1.62%
QC value greater than the upper limit for Tl 351.924			Recovery = 112.67%			
V 290.880†	355440.0	5.011 mg/L	0.0201	5.011 mg/L	0.0201	0.40%
QC value within limits for V 290.880			Recovery = 100.22%			
Zn 206.200†	281052.1	5.283 mg/L	0.0116	5.283 mg/L	0.0116	0.22%
QC value within limits for Zn 206.200			Recovery = 105.65%			
Zr 343.823†	762082.6	5.318 mg/L	0.0218	5.318 mg/L	0.0218	0.41%
QC value within limits for Zr 343.823			Recovery = 106.37%			
QC Failed. Retry.						

Batch ID: AVIO 500

Sequence No.: 70

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 5

Date Collected: 4/11/2024 10:14:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	192508.8	84.5 %	1.17	84.5 %	1.17	1.38%
Y axial	1937923.0	97.3 %	0.57	97.3 %	0.57	0.58%
Ag 328.068†	82622.9	2.519 mg/L	0.0155	2.519 mg/L	0.0155	0.62%
QC value within limits for Ag 328.068			Recovery = 100.76%			
Al 396.153†	43288.5	9.734 mg/L	0.0341	9.734 mg/L	0.0341	0.35%
QC value within limits for Al 396.153			Recovery = 97.34%			
As 188.979†	8393.3	5.321 mg/L	0.0673	5.321 mg/L	0.0673	1.26%
QC value within limits for As 188.979			Recovery = 106.42%			
B 208.889†	31567.5	4.692 mg/L	0.0526	4.692 mg/L	0.0526	1.12%
QC value within limits for B 208.889			Recovery = 93.84%			
Ba 233.527†	48542.3	4.255 mg/L	0.0870	4.255 mg/L	0.0870	2.04%
QC value less than the lower limit for Ba 233.527			Recovery = 85.09%			
Be 313.107†	2648168.8	4.495 mg/L	0.0079	4.495 mg/L	0.0079	0.18%
QC value less than the lower limit for Be 313.107			Recovery = 89.90%			
Ca 317.933†	131455.1	9.769 mg/L	0.0578	9.769 mg/L	0.0578	0.59%
QC value within limits for Ca 317.933			Recovery = 97.69%			
Cd 228.802†	127199.9	4.966 mg/L	0.0191	4.966 mg/L	0.0191	0.38%
QC value within limits for Cd 228.802			Recovery = 99.33%			
Co 228.616†	114429.6	5.057 mg/L	0.0151	5.057 mg/L	0.0151	0.30%
QC value within limits for Co 228.616			Recovery = 101.15%			
Cr 267.716†	242983.4	5.070 mg/L	0.0127	5.070 mg/L	0.0127	0.25%
QC value within limits for Cr 267.716			Recovery = 101.41%			
Cu 327.393†	266028.1	4.876 mg/L	0.0148	4.876 mg/L	0.0148	0.30%
QC value within limits for Cu 327.393			Recovery = 97.51%			
Fe 238.204†	37856.8	4.785 mg/L	0.0333	4.785 mg/L	0.0333	0.70%
QC value within limits for Fe 238.204			Recovery = 95.70%			
K 766.490†	54621.6	9.745 mg/L	0.0769	9.745 mg/L	0.0769	0.79%
QC value within limits for K 766.490			Recovery = 97.45%			
Mg 285.213†	124323.0	9.337 mg/L	0.0530	9.337 mg/L	0.0530	0.57%
QC value within limits for Mg 285.213			Recovery = 93.37%			
Mn 257.610†	195154.6	4.742 mg/L	0.0303	4.742 mg/L	0.0303	0.64%

[illegible]

Batch ID: AVIO 500

Sequence No. : 71

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/11/2024 10:21:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected			Calib.	Sample			RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	
Y radial	204331.8	89.7	%	1.04	89.7	%	1.04	1.16%
Y axial	2034260.0	102	%	2.14	102	%	2.14	2.10%
Ag 328.068†	117.0	0.0036	mg/L	0.00063	0.0036	mg/L	0.00063	17.71%
QC value	within limits	for Ag 328.068	Recovery =	Not calculated				
Al 396.153†	22.7	0.0052	mg/L	0.00445	0.0052	mg/L	0.00445	85.84%
QC value	within limits	for Al 396.153	Recovery =	Not calculated				
As 188.979†	7.9	0.0050	mg/L	0.00359	0.0050	mg/L	0.00359	71.76%
QC value	within limits	for As 188.979	Recovery =	Not calculated				
B 208.889†	20.0	0.0030	mg/L	0.00246	0.0030	mg/L	0.00246	80.57%
QC value	within limits	for B 208.889	Recovery =	Not calculated				
Ba 233.527†	1.5	0.0001	mg/L	0.00020	0.0001	mg/L	0.00020	153.16%
QC value	within limits	for Ba 233.527	Recovery =	Not calculated				
Be 313.107†	-177.4	-0.0003	mg/L	0.00004	-0.0003	mg/L	0.00004	13.89%
QC value	within limits	for Be 313.107	Recovery =	Not calculated				
Ca 317.933†	16.9	0.0013	mg/L	0.00155	0.0013	mg/L	0.00155	123.64%
QC value	within limits	for Ca 317.933	Recovery =	Not calculated				
Cd 228.802†	-12.6	-0.0006	mg/L	0.00031	-0.0006	mg/L	0.00031	48.18%
QC value	within limits	for Cd 228.802	Recovery =	Not calculated				
Co 228.616†	-17.8	-0.0008	mg/L	0.00023	-0.0008	mg/L	0.00023	28.70%
QC value	within limits	for Co 228.616	Recovery =	Not calculated				
Cr 267.716†	3.7	0.0001	mg/L	0.00030	0.0001	mg/L	0.00030	385.76%
QC value	within limits	for Cr 267.716	Recovery =	Not calculated				
Cu 327.393†	48.6	0.0009	mg/L	0.00167	0.0009	mg/L	0.00167	188.13%
QC value	within limits	for Cu 327.393	Recovery =	Not calculated				
Fe 238.204†	47.9	0.0060	mg/L	0.00123	0.0060	mg/L	0.00123	20.59%
QC value	within limits	for Fe 238.204	Recovery =	Not calculated				
K 766.490†	-586.3	-0.1046	mg/L	0.01263	-0.1046	mg/L	0.01263	12.08%
QC value	within limits	for K 766.490	Recovery =	Not calculated				
Mg 285.213†	2.0	0.0002	mg/L	0.00050	0.0002	mg/L	0.00050	328.26%
QC value	within limits	for Mg 285.213	Recovery =	Not calculated				

Mn 257.610†	-25.0	-0.0006 mg/L	0.00015	-0.0006 mg/L	0.00015	24.54%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	32.3	0.0019 mg/L	0.00015	0.0019 mg/L	0.00015	7.75%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-696.1	-0.0681 mg/L	0.01389	-0.0681 mg/L	0.01389	20.40%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-17.9	-0.0005 mg/L	0.00027	-0.0005 mg/L	0.00027	56.39%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	27.5	0.0045 mg/L	0.00196	0.0045 mg/L	0.00196	43.80%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-2.2	-0.0008 mg/L	0.00211	-0.0008 mg/L	0.00211	250.29%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.6	0.0032 mg/L	0.00319	0.0032 mg/L	0.00319	99.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	13.1	0.0020 mg/L	0.00049	0.0020 mg/L	0.00049	24.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-29.6	-0.0009 mg/L	0.00062	-0.0009 mg/L	0.00062	71.41%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-6.4	-0.0037 mg/L	0.01024	-0.0037 mg/L	0.01024	274.94%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	42.7	0.0006 mg/L	0.00042	0.0006 mg/L	0.00042	69.02%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	125.5	0.0024 mg/L	0.00023	0.0024 mg/L	0.00023	9.88%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	103.2	0.0007 mg/L	0.00038	0.0007 mg/L	0.00038	52.45%

All analyte(s) passed QC.

S103290

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103290-CAL1	QC		1		23J0970	24D0241	
S103290-CAL2	QC		2		23J0971	24D0241	
S103290-CAL3	QC		3		24D0039	24D0241	
S103290-CAL4	QC		4		24D0038	24D0241	
S103290-CAL5	QC		5		24D0037	24D0241	
S103290-CAL6	QC		6		24D0029	24D0241	
S103290-CAL7	QC		7		24D0035	24D0241	
S103290-CAL8	QC		8		23J0977	24D0241	
S103290-ICV1	QC		9		23K0257	24D0241	
S103290-ICB1	QC		10		23J0970	24D0241	
S103290-LCV1	QC		11		23J0971	24D0241	
S103290-CCV1	QC		12		24D0029	24D0241	
S103290-IFA1	QC		13		24C0959	24D0241	
S103290-IFB1	QC		14		24D0240	24D0241	
S103290-LCV2	QC		15		23L0532	24D0241	
S103290-HCV1	QC		16		24D0030	24D0241	
S103290-HCV2	QC		17		24C0960	24D0241	

Samples Loaded By

Date

Data Processed By

Date

=====

Analysis Begun

Start Time: 4/17/2024 11:21:33 AM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/17/2024 11:21:33 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 11:23:57 AM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 11

Autosampler Location: 7

Sample ID: RINSE

Date Collected: 4/17/2024 11:23:58 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5464413.6	99.45 %	0.713			0.72%
Y radial	199216.6	103.7 %	0.15			0.14%
Ag 328.068†	339.6	0.0012 mg/L	0.00020	0.0012 mg/L	0.00020	17.10%
Al 396.153†	29.5	0.0076 mg/L	0.00176	0.0076 mg/L	0.00176	23.00%
As 188.979†	9.1	0.0026 mg/L	0.00084	0.0026 mg/L	0.00084	32.31%
B 208.889†	6050.7	0.3228 mg/L	0.01119	0.3228 mg/L	0.01119	3.47%
Ba 233.527†	51.9	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	28.56%
Be 313.107†	205.0	0.0005 mg/L	0.00003	0.0005 mg/L	0.00003	7.36%
Ca 317.933†	97.5	0.0140 mg/L	0.00118	0.0140 mg/L	0.00118	8.39%
Cd 228.802†	78.5	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	12.44%
Co 228.616†	39.7	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	11.81%
Cr 267.716†	74.7	0.0006 mg/L	0.00004	0.0006 mg/L	0.00004	6.50%
Cu 327.393†	6173.1	0.0347 mg/L	0.00134	0.0347 mg/L	0.00134	3.85%
Fe 238.204†	15.7	0.0066 mg/L	0.00202	0.0066 mg/L	0.00202	30.42%
K 766.490†	393.1	0.1187 mg/L	0.01486	0.1187 mg/L	0.01486	12.52%
Mg 285.213†	32.7	0.0038 mg/L	0.00054	0.0038 mg/L	0.00054	14.15%
Mn 257.610†	5.9	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	48.25%
Mo 202.031†	0.3	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	520.97%
Na 589.592†	1663.2	0.1368 mg/L	0.00722	0.1368 mg/L	0.00722	5.28%
Ni 231.604†	4.2	0.0001 mg/L	0.00028	0.0001 mg/L	0.00028	269.89%
Pb 220.353†	22.8	0.0018 mg/L	0.00026	0.0018 mg/L	0.00026	14.92%
Sb 206.836†	1.6	0.0002 mg/L	0.00049	0.0002 mg/L	0.00049	206.24%
Se 196.026†	12.5	0.0062 mg/L	0.00057	0.0062 mg/L	0.00057	9.24%
Sn 189.927†	3.9	0.0005 mg/L	0.00049	0.0005 mg/L	0.00049	109.52%

Ti 337.279†	7.4	0.0004 mg/L	0.00026	0.0004 mg/L	0.00026	66.26%
Tl 351.924†	16.0	0.0013 mg/L	0.00279	0.0013 mg/L	0.00279	207.28%
V 290.880†	247.7	0.0011 mg/L	0.00088	0.0011 mg/L	0.00088	79.41%
Zn 206.200†	1130.8	0.0157 mg/L	0.00056	0.0157 mg/L	0.00056	3.56%
Zr 343.823†	-98.4	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	43.19%

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/17/2024 11:29:28 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5431920.3	98.86 %		0.492				0.50%
Y radial	201520.8	104.9 %		0.56				0.54%
Ag 328.068†	375.5	0.0013 mg/L		0.00035	0.0013 mg/L		0.00035	27.34%
Al 396.153†	-8.3	-0.0021 mg/L		0.00334	-0.0021 mg/L		0.00334	156.68%
As 188.979†	-1.4	-0.0005 mg/L		0.00092	-0.0005 mg/L		0.00092	178.32%
B 208.889†	4194.6	0.2238 mg/L		0.00842	0.2238 mg/L		0.00842	3.76%
Ba 233.527†	29.6	0.0002 mg/L		0.00003	0.0002 mg/L		0.00003	19.16%
Be 313.107†	146.4	0.0003 mg/L		0.00006	0.0003 mg/L		0.00006	17.81%
Ca 317.933†	74.2	0.0107 mg/L		0.00087	0.0107 mg/L		0.00087	8.18%
Cd 228.802†	46.6	0.0004 mg/L		0.00005	0.0004 mg/L		0.00005	11.60%
Co 228.616†	15.6	0.0002 mg/L		0.00005	0.0002 mg/L		0.00005	29.42%
Cr 267.716†	52.1	0.0004 mg/L		0.00008	0.0004 mg/L		0.00008	19.83%
Cu 327.393†	3683.1	0.0207 mg/L		0.00106	0.0207 mg/L		0.00106	5.14%
Fe 238.204†	5.8	0.0024 mg/L		0.00072	0.0024 mg/L		0.00072	29.68%
K 766.490†	233.4	0.0705 mg/L		0.01489	0.0705 mg/L		0.01489	21.13%
Mg 285.213†	21.1	0.0025 mg/L		0.00031	0.0025 mg/L		0.00031	12.43%
Mn 257.610†	1.9	0.0001 mg/L		0.00019	0.0001 mg/L		0.00019	249.42%
Mo 202.031†	-0.0	-0.0000 mg/L		0.00014	-0.0000 mg/L		0.00014	>999.9%
Na 589.592†	725.4	0.0597 mg/L		0.00725	0.0597 mg/L		0.00725	12.15%
Ni 231.604†	-7.6	-0.0002 mg/L		0.00015	-0.0002 mg/L		0.00015	76.68%
Pb 220.353†	12.1	0.0009 mg/L		0.00029	0.0009 mg/L		0.00029	30.65%
Sb 206.836†	-0.3	-0.0000 mg/L		0.00041	-0.0000 mg/L		0.00041	883.77%
Se 196.026†	4.1	0.0020 mg/L		0.00171	0.0020 mg/L		0.00171	83.79%
Sn 189.927†	3.2	0.0004 mg/L		0.00049	0.0004 mg/L		0.00049	132.37%
Ti 337.279†	4.6	0.0002 mg/L		0.00010	0.0002 mg/L		0.00010	42.09%
Tl 351.924†	45.4	0.0038 mg/L		0.00224	0.0038 mg/L		0.00224	58.69%
V 290.880†	432.8	0.0019 mg/L		0.00019	0.0019 mg/L		0.00019	9.52%
Zn 206.200†	754.1	0.0104 mg/L		0.00042	0.0104 mg/L		0.00042	4.06%
Zr 343.823†	-31.0	-0.0001 mg/L		0.00019	-0.0001 mg/L		0.00019	281.46%

Sequence No.: 13

Sample ID: B371472-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 38

Date Collected: 4/17/2024 11:34:59 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5510349.3	100.3 %		0.51				0.50%
Y radial	203771.2	106.1 %		0.51				0.48%
Ag 328.068†	281.0	0.0010 mg/L		0.00017	0.0010 mg/L		0.00017	18.10%
Al 396.153†	16.8	0.0044 mg/L		0.00901	0.0044 mg/L		0.00901	207.07%
As 188.979†	0.5	0.0001 mg/L		0.00124	0.0001 mg/L		0.00124	>999.9%
B 208.889†	3368.9	0.1797 mg/L		0.00095	0.1797 mg/L		0.00095	0.53%
Ba 233.527†	4.7	0.0000 mg/L		0.00003	0.0000 mg/L		0.00003	97.99%
Be 313.107†	74.6	0.0002 mg/L		0.00003	0.0002 mg/L		0.00003	18.48%
Ca 317.933†	240.2	0.0345 mg/L		0.00165	0.0345 mg/L		0.00165	4.78%
Cd 228.802†	27.4	0.0002 mg/L		0.00002	0.0002 mg/L		0.00002	9.14%

Co 228.616†	20.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	12.30%
Cr 267.716†	17.9	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	40.57%
Cu 327.393†	2213.9	0.0124 mg/L	0.00024	0.0124 mg/L	0.00024	1.96%
Fe 238.204†	8.3	0.0035 mg/L	0.00130	0.0035 mg/L	0.00130	37.08%
K 766.490†	132.6	0.0401 mg/L	0.00382	0.0401 mg/L	0.00382	9.55%
Mg 285.213†	22.5	0.0026 mg/L	0.00025	0.0026 mg/L	0.00025	9.52%
Mn 257.610†	2.5	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	69.79%
Mo 202.031†	4.1	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	77.86%
Na 589.592†	445.1	0.0366 mg/L	0.00193	0.0366 mg/L	0.00193	5.28%
Ni 231.604†	-9.1	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	54.68%
Pb 220.353†	-2.3	-0.0002 mg/L	0.00061	-0.0002 mg/L	0.00061	290.37%
Sb 206.836†	3.4	0.0005 mg/L	0.00117	0.0005 mg/L	0.00117	216.39%
Se 196.026†	1.3	0.0006 mg/L	0.00115	0.0006 mg/L	0.00115	178.32%
Sn 189.927†	2.6	0.0003 mg/L	0.00051	0.0003 mg/L	0.00051	169.94%
Ti 337.279†	-7.8	-0.0004 mg/L	0.00012	-0.0004 mg/L	0.00012	28.70%
Tl 351.924†	45.9	0.0039 mg/L	0.00080	0.0039 mg/L	0.00080	20.61%
V 290.880†	444.8	0.0020 mg/L	0.00013	0.0020 mg/L	0.00013	6.70%
Zn 206.200†	588.0	0.0081 mg/L	0.00007	0.0081 mg/L	0.00007	0.89%
Zr 343.823†	-78.1	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	50.36%

Sequence No.: 14

Sample ID: B371472-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 39

Date Collected: 4/17/2024 11:40:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5388498.7	98.07 %		0.631			0.64%
Y radial	201939.8	105.1 %		1.18			1.13%
Ag 328.068†	153496.5	0.5190 mg/L		0.00599	0.5190 mg/L	0.00599	1.15%
Al 396.153†	2044.3	0.5095 mg/L		0.00316	0.5095 mg/L	0.00316	0.62%
As 188.979†	1596.1	0.4781 mg/L		0.00093	0.4781 mg/L	0.00093	0.19%
B 208.889†	20737.0	1.082 mg/L		0.0169	1.082 mg/L	0.0169	1.56%
Ba 233.527†	85643.0	0.5061 mg/L		0.00634	0.5061 mg/L	0.00634	1.25%
Be 313.107†	223086.1	0.5029 mg/L		0.00577	0.5029 mg/L	0.00577	1.15%
Ca 317.933†	27361.2	3.936 mg/L		0.0275	3.936 mg/L	0.0275	0.70%
Cd 228.802†	57757.0	0.4986 mg/L		0.00589	0.4986 mg/L	0.00589	1.18%
Co 228.616†	50457.6	0.4993 mg/L		0.00569	0.4993 mg/L	0.00569	1.14%
Cr 267.716†	65847.4	0.5038 mg/L		0.00616	0.5038 mg/L	0.00616	1.22%
Cu 327.393†	172980.0	0.9726 mg/L		0.01454	0.9726 mg/L	0.01454	1.49%
Fe 238.204†	9539.9	4.018 mg/L		0.0311	4.018 mg/L	0.0311	0.77%
K 766.490†	12561.0	3.794 mg/L		0.0266	3.794 mg/L	0.0266	0.70%
Mg 285.213†	34647.4	4.034 mg/L		0.0305	4.034 mg/L	0.0305	0.76%
Mn 257.610†	12381.2	0.4958 mg/L		0.00292	0.4958 mg/L	0.00292	0.59%
Mo 202.031†	12353.9	0.4907 mg/L		0.00255	0.4907 mg/L	0.00255	0.52%
Na 589.592†	41446.5	3.409 mg/L		0.0370	3.409 mg/L	0.0370	1.09%
Ni 231.604†	20096.2	0.5040 mg/L		0.00669	0.5040 mg/L	0.00669	1.33%
Pb 220.353†	6257.6	0.5019 mg/L		0.00319	0.5019 mg/L	0.00319	0.63%
Sb 206.836†	3187.2	0.4974 mg/L		0.00142	0.4974 mg/L	0.00142	0.29%
Se 196.026†	1016.5	0.5043 mg/L		0.00207	0.5043 mg/L	0.00207	0.41%
Sn 189.927†	4259.3	0.4949 mg/L		0.00219	0.4949 mg/L	0.00219	0.44%
Ti 337.279†	9380.9	0.4951 mg/L		0.00423	0.4951 mg/L	0.00423	0.86%
Tl 351.924†	5809.1	0.4880 mg/L		0.00805	0.4880 mg/L	0.00805	1.65%
V 290.880†	110646.4	0.4976 mg/L		0.00681	0.4976 mg/L	0.00681	1.37%
Zn 206.200†	73427.6	1.019 mg/L		0.0102	1.019 mg/L	0.0102	1.00%
Zr 343.823†	1446.0	0.0031 mg/L		0.00073	0.0031 mg/L	0.00073	23.38%

Sequence No.: 15

Sample ID: B371472-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 40

Date Collected: 4/17/2024 11:45:07 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5490303.3	99.92	%	0.477				0.48%
Y radial	205377.6	106.9	%	1.64				1.53%
Ag 328.068†	152553.4	0.5158	mg/L	0.00573	0.5158	mg/L	0.00573	1.11%
Al 396.153†	1999.5	0.4979	mg/L	0.01077	0.4979	mg/L	0.01077	2.16%
As 188.979†	1578.7	0.4729	mg/L	0.00325	0.4729	mg/L	0.00325	0.69%
B 208.889†	20236.2	1.055	mg/L	0.0133	1.055	mg/L	0.0133	1.26%
Ba 233.527†	85083.8	0.5028	mg/L	0.00711	0.5028	mg/L	0.00711	1.41%
Be 313.107†	220940.4	0.4981	mg/L	0.00618	0.4981	mg/L	0.00618	1.24%
Ca 317.933†	27154.9	3.906	mg/L	0.0688	3.906	mg/L	0.0688	1.76%
Cd 228.802†	57311.9	0.4948	mg/L	0.00603	0.4948	mg/L	0.00603	1.22%
Co 228.616†	50099.7	0.4957	mg/L	0.00681	0.4957	mg/L	0.00681	1.37%
Cr 267.716†	65603.9	0.5019	mg/L	0.00616	0.5019	mg/L	0.00616	1.23%
Cu 327.393†	171493.0	0.9642	mg/L	0.01882	0.9642	mg/L	0.01882	1.95%
Fe 238.204†	9481.2	3.994	mg/L	0.0571	3.994	mg/L	0.0571	1.43%
K 766.490†	12508.1	3.778	mg/L	0.0671	3.778	mg/L	0.0671	1.78%
Mg 285.213†	34448.2	4.011	mg/L	0.0493	4.011	mg/L	0.0493	1.23%
Mn 257.610†	12332.5	0.4938	mg/L	0.00845	0.4938	mg/L	0.00845	1.71%
Mo 202.031†	12346.6	0.4904	mg/L	0.00307	0.4904	mg/L	0.00307	0.63%
Na 589.592†	40888.8	3.363	mg/L	0.0351	3.363	mg/L	0.0351	1.04%
Ni 231.604†	19965.6	0.5008	mg/L	0.00465	0.5008	mg/L	0.00465	0.93%
Pb 220.353†	6210.8	0.4982	mg/L	0.00225	0.4982	mg/L	0.00225	0.45%
Sb 206.836†	3150.5	0.4916	mg/L	0.00308	0.4916	mg/L	0.00308	0.63%
Se 196.026†	995.9	0.4941	mg/L	0.00103	0.4941	mg/L	0.00103	0.21%
Sn 189.927†	4237.5	0.4924	mg/L	0.00361	0.4924	mg/L	0.00361	0.73%
Ti 337.279†	9341.8	0.4930	mg/L	0.00717	0.4930	mg/L	0.00717	1.45%
Tl 351.924†	5652.9	0.4749	mg/L	0.00646	0.4749	mg/L	0.00646	1.36%
V 290.880†	109302.7	0.4916	mg/L	0.00718	0.4916	mg/L	0.00718	1.46%
Zn 206.200†	72712.4	1.009	mg/L	0.0099	1.009	mg/L	0.0099	0.98%
Zr 343.823†	635.8	0.0013	mg/L	0.00013	0.0013	mg/L	0.00013	9.54%

Sequence No.: 16

Sample ID: B371472-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 41

Date Collected: 4/17/2024 11:49:44 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5014525.7	91.26	%	0.349				0.38%
Y radial	196236.5	102.1	%	0.39				0.38%
Ag 328.068†	153231.3	0.5181	mg/L	0.00286	0.5181	mg/L	0.00286	0.55%
Al 396.153†	2073.5	0.5169	mg/L	0.00295	0.5169	mg/L	0.00295	0.57%
As 188.979†	1725.6	0.5180	mg/L	0.00272	0.5180	mg/L	0.00272	0.52%
B 208.889†	21356.9	1.114	mg/L	0.0049	1.114	mg/L	0.0049	0.44%
Ba 233.527†	85621.7	0.5060	mg/L	0.00311	0.5060	mg/L	0.00311	0.61%
Be 313.107†	219636.4	0.4951	mg/L	0.00130	0.4951	mg/L	0.00130	0.26%
Ca 317.933†	420530.7	60.49	mg/L	0.108	60.49	mg/L	0.108	0.18%
Cd 228.802†	59104.5	0.5095	mg/L	0.00258	0.5095	mg/L	0.00258	0.51%
Co 228.616†	49054.6	0.4854	mg/L	0.00262	0.4854	mg/L	0.00262	0.54%
Cr 267.716†	64404.7	0.4928	mg/L	0.00275	0.4928	mg/L	0.00275	0.56%
Cu 327.393†	185297.6	1.042	mg/L	0.0050	1.042	mg/L	0.0050	0.48%
Fe 238.204†	9460.1	3.985	mg/L	0.0081	3.985	mg/L	0.0081	0.20%
K 766.490†	220436.0	66.59	mg/L	0.330	66.59	mg/L	0.330	0.50%
Mg 285.213†	96766.9	11.25	mg/L	0.014	11.25	mg/L	0.014	0.12%
Mn 257.610†	12913.5	0.5171	mg/L	0.00217	0.5171	mg/L	0.00217	0.42%
Mo 202.031†	12464.5	0.4951	mg/L	0.00373	0.4951	mg/L	0.00373	0.75%
Na 589.592†	2979148.5	245.0	mg/L	0.95	245.0	mg/L	0.95	0.39%
Ni 231.604†	19445.1	0.4877	mg/L	0.00278	0.4877	mg/L	0.00278	0.57%
Pb 220.353†	6048.1	0.4849	mg/L	0.00462	0.4849	mg/L	0.00462	0.95%
Sb 206.836†	3269.8	0.5104	mg/L	0.00405	0.5104	mg/L	0.00405	0.79%
Se 196.026†	1039.6	0.5086	mg/L	0.00663	0.5086	mg/L	0.00663	1.30%
Sn 189.927†	3966.3	0.4609	mg/L	0.00348	0.4609	mg/L	0.00348	0.76%

Ti 337.279†	9283.5	0.4899 mg/L	0.00190	0.4899 mg/L	0.00190	0.39%
Tl 351.924†	5409.2	0.4543 mg/L	0.00345	0.4543 mg/L	0.00345	0.76%
V 290.880†	111713.4	0.5024 mg/L	0.00255	0.5024 mg/L	0.00255	0.51%
Zn 206.200†	74800.1	1.017 mg/L	0.0085	1.017 mg/L	0.0085	0.84%
Zr 343.823†	842.7	0.0018 mg/L	0.00012	0.0018 mg/L	0.00012	7.03%

Sequence No.: 17

Sample ID: B371472-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 42

Date Collected: 4/17/2024 11:54:25 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5057300.7	92.04	%	0.773				0.84%
Y radial	193655.8	100.8	%	1.24				1.23%
Ag 328.068†	-581.6	-0.0019	mg/L	0.00013	-0.0019	mg/L	0.00013	6.80%
Al 396.153†	58.4	0.0150	mg/L	0.00260	0.0150	mg/L	0.00260	17.30%
As 188.979†	49.5	0.0160	mg/L	0.00086	0.0160	mg/L	0.00086	5.36%
B 208.889†	2527.7	0.1347	mg/L	0.00357	0.1347	mg/L	0.00357	2.65%
Ba 233.527†	2106.7	0.0124	mg/L	0.00023	0.0124	mg/L	0.00023	1.81%
Be 313.107†	107.3	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.88%
Ca 317.933†	403696.8	58.07	mg/L	0.405	58.07	mg/L	0.405	0.70%
Cd 228.802†	8.9	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	25.33%
Co 228.616†	153.4	0.0015	mg/L	0.00008	0.0015	mg/L	0.00008	5.25%
Cr 267.716†	181.1	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.37%
Cu 327.393†	2505.7	0.0141	mg/L	0.00046	0.0141	mg/L	0.00046	3.28%
Fe 238.204†	145.9	0.0614	mg/L	0.00043	0.0614	mg/L	0.00043	0.70%
K 766.490†	213333.4	64.44	mg/L	0.556	64.44	mg/L	0.556	0.86%
Mg 285.213†	65656.0	7.623	mg/L	0.0767	7.623	mg/L	0.0767	1.01%
Mn 257.610†	972.8	0.0389	mg/L	0.00044	0.0389	mg/L	0.00044	1.12%
Mo 202.031†	55.5	0.0022	mg/L	0.00011	0.0022	mg/L	0.00011	5.16%
Na 589.592†	3019280.0	248.3	mg/L	3.50	248.3	mg/L	3.50	1.41%
Ni 231.604†	215.0	0.0054	mg/L	0.00010	0.0054	mg/L	0.00010	1.77%
Pb 220.353†	46.7	0.0037	mg/L	0.00088	0.0037	mg/L	0.00088	23.63%
Sb 206.836†	17.2	0.0025	mg/L	0.00063	0.0025	mg/L	0.00063	24.89%
Se 196.026†	8.8	-0.0031	mg/L	0.00156	-0.0031	mg/L	0.00156	50.17%
Sn 189.927†	-297.8	-0.0346	mg/L	0.00088	-0.0346	mg/L	0.00088	2.53%
Ti 337.279†	2.9	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	143.54%
Tl 351.924†	-687.4	-0.0579	mg/L	0.00085	-0.0579	mg/L	0.00085	1.47%
V 290.880†	1398.0	0.0063	mg/L	0.00029	0.0063	mg/L	0.00029	4.54%
Zn 206.200†	699.4	-0.0114	mg/L	0.00031	-0.0114	mg/L	0.00031	2.71%
Zr 343.823†	373.6	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	7.16%

Sequence No.: 18

Sample ID: 24D1483-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 43

Date Collected: 4/17/2024 12:00:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1483-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5018288.7	91.33	%	0.273				0.30%
Y radial	194372.4	101.2	%	1.09				1.08%
Ag 328.068†	-549.7	-0.0018	mg/L	0.00038	-0.0018	mg/L	0.00038	20.47%
Al 396.153†	45.6	0.0117	mg/L	0.00308	0.0117	mg/L	0.00308	26.28%
As 188.979†	54.6	0.0175	mg/L	0.00122	0.0175	mg/L	0.00122	6.95%
B 208.889†	2134.3	0.1138	mg/L	0.00271	0.1138	mg/L	0.00271	2.38%
Ba 233.527†	2083.4	0.0123	mg/L	0.00002	0.0123	mg/L	0.00002	0.13%
Be 313.107†	99.2	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	17.53%
Ca 317.933†	394079.9	56.69	mg/L	0.775	56.69	mg/L	0.775	1.37%
Cd 228.802†	3.0	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	1.81%

Co 228.616†	155.9	0.0015 mg/L	0.00011	0.0015 mg/L	0.00011	6.93%
Cr 267.716†	180.9	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	3.04%
Cu 327.393†	1978.7	0.0111 mg/L	0.00013	0.0111 mg/L	0.00013	1.16%
Fe 238.204†	136.9	0.0576 mg/L	0.00038	0.0576 mg/L	0.00038	0.67%
K 766.490†	219284.0	66.24 mg/L	0.976	66.24 mg/L	0.976	1.47%
Mg 285.213†	64312.9	7.467 mg/L	0.1136	7.467 mg/L	0.1136	1.52%
Mn 257.610†	950.2	0.0380 mg/L	0.00090	0.0380 mg/L	0.00090	2.37%
Mo 202.031†	44.7	0.0018 mg/L	0.00019	0.0018 mg/L	0.00019	10.84%
Na 589.592†	3190022.1	262.3 mg/L	4.13	262.3 mg/L	4.13	1.57%
Ni 231.604†	222.5	0.0056 mg/L	0.00023	0.0056 mg/L	0.00023	4.17%
Pb 220.353†	32.0	0.0026 mg/L	0.00116	0.0026 mg/L	0.00116	45.23%
Sb 206.836†	21.5	0.0032 mg/L	0.00037	0.0032 mg/L	0.00037	11.50%
Se 196.026†	7.3	-0.0037 mg/L	0.00066	-0.0037 mg/L	0.00066	17.95%
Sn 189.927†	-301.6	-0.0350 mg/L	0.00012	-0.0350 mg/L	0.00012	0.35%
Ti 337.279†	6.5	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	61.83%
Tl 351.924†	-718.6	-0.0605 mg/L	0.00050	-0.0605 mg/L	0.00050	0.83%
V 290.880†	1211.5	0.0054 mg/L	0.00043	0.0054 mg/L	0.00043	7.87%
Zn 206.200†	597.2	-0.0140 mg/L	0.00048	-0.0140 mg/L	0.00048	3.41%
Zr 343.823†	382.6	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	7.42%

Sequence No.: 19

Sample ID: 24D1211-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 44

Date Collected: 4/17/2024 12:05:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1211-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	3500770.6	63.71 %		0.355			0.56%
Y radial	163058.3	84.86 %		1.387			1.63%
Ag 328.068†	161.5	0.0006 mg/L		0.00011	0.0006 mg/L	0.00011	17.24%
Al 396.153†	1988.5	0.5129 mg/L		0.01120	0.5129 mg/L	0.01120	2.18%
As 188.979†	95.0	0.0247 mg/L		0.00189	0.0247 mg/L	0.00189	7.67%
B 208.889†	3619.4	0.1911 mg/L		0.00489	0.1911 mg/L	0.00489	2.56%
Ba 233.527†	2375.7	0.0139 mg/L		0.00014	0.0139 mg/L	0.00014	0.98%
Be 313.107†	243.3	0.0005 mg/L		0.00005	0.0005 mg/L	0.00005	11.23%
Ca 317.933†	28550.9	4.107 mg/L		0.0302	4.107 mg/L	0.0302	0.74%
Cd 228.802†	180.6	0.0010 mg/L		0.00006	0.0010 mg/L	0.00006	5.74%
Co 228.616†	278.8	0.0027 mg/L		0.00008	0.0027 mg/L	0.00008	2.92%
Cr 267.716†	120317.8	0.9202 mg/L		0.00307	0.9202 mg/L	0.00307	0.33%
Cu 327.393†	6295.7	0.0354 mg/L		0.00084	0.0354 mg/L	0.00084	2.38%
Fe 238.204†	3445.1	1.450 mg/L		0.0192	1.450 mg/L	0.0192	1.32%
K 766.490†	66886.5	20.20 mg/L		0.302	20.20 mg/L	0.302	1.49%
Mg 285.213†	40210.1	4.679 mg/L		0.0069	4.679 mg/L	0.0069	0.15%
Mn 257.610†	1172.5	0.0470 mg/L		0.00079	0.0470 mg/L	0.00079	1.67%
Mo 202.031†	971.7	0.0386 mg/L		0.00033	0.0386 mg/L	0.00033	0.84%
Na 589.592†	Saturated2						
Ni 231.604†	3888.6	0.0976 mg/L		0.00096	0.0976 mg/L	0.00096	0.99%
Pb 220.353†	28.8	0.0026 mg/L		0.00098	0.0026 mg/L	0.00098	37.55%
Sb 206.836†	140.4	0.0043 mg/L		0.00120	0.0043 mg/L	0.00120	27.94%
Se 196.026†	56.2	0.0267 mg/L		0.00807	0.0267 mg/L	0.00807	30.28%
Sn 189.927†	-312.8	-0.0364 mg/L		0.00428	-0.0364 mg/L	0.00428	11.77%
Ti 337.279†	148.3	0.0078 mg/L		0.00065	0.0078 mg/L	0.00065	8.30%
Tl 351.924†	36.4	0.0039 mg/L		0.00656	0.0039 mg/L	0.00656	168.43%
V 290.880†	4497.9	0.0201 mg/L		0.00081	0.0201 mg/L	0.00081	4.03%
Zn 206.200†	4182.0	0.0657 mg/L		0.00013	0.0657 mg/L	0.00013	0.21%
Zr 343.823†	641.6	0.0014 mg/L		0.00019	0.0014 mg/L	0.00019	13.31%

Sequence No.: 20

Sample ID: 24D1331-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 45

Date Collected: 4/17/2024 12:13:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1331-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5273901.8	95.98	%	0.495				0.52%
Y radial	206342.5	107.4	%	1.02				0.95%
Ag 328.068†	271.1	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	3.68%
Al 396.153†	157.8	0.0408	mg/L	0.00141	0.0408	mg/L	0.00141	3.45%
As 188.979†	3.5	0.0015	mg/L	0.00089	0.0015	mg/L	0.00089	59.69%
B 208.889†	7391.8	0.3943	mg/L	0.00122	0.3943	mg/L	0.00122	0.31%
Ba 233.527†	5572.7	0.0328	mg/L	0.00015	0.0328	mg/L	0.00015	0.45%
Be 313.107†	-38.4	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	45.62%
Ca 317.933†	157474.4	22.65	mg/L	0.178	22.65	mg/L	0.178	0.79%
Cd 228.802†	22.9	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	45.57%
Co 228.616†	109.4	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.42%
Cr 267.716†	331.0	0.0025	mg/L	0.00010	0.0025	mg/L	0.00010	4.02%
Cu 327.393†	2825.4	0.0159	mg/L	0.00050	0.0159	mg/L	0.00050	3.16%
Fe 238.204†	1204.3	0.5070	mg/L	0.00694	0.5070	mg/L	0.00694	1.37%
K 766.490†	35985.1	10.87	mg/L	0.059	10.87	mg/L	0.059	0.54%
Mg 285.213†	78264.3	9.101	mg/L	0.0473	9.101	mg/L	0.0473	0.52%
Mn 257.610†	1066.4	0.0427	mg/L	0.00051	0.0427	mg/L	0.00051	1.20%
Mo 202.031†	42.4	0.0017	mg/L	0.00017	0.0017	mg/L	0.00017	10.07%
Na 589.592†	1439268.1	118.4	mg/L	3.69	118.4	mg/L	3.69	3.12%
Ni 231.604†	202.1	0.0051	mg/L	0.00002	0.0051	mg/L	0.00002	0.38%
Pb 220.353†	13.6	0.0011	mg/L	0.00032	0.0011	mg/L	0.00032	30.05%
Sb 206.836†	14.5	0.0021	mg/L	0.00005	0.0021	mg/L	0.00005	2.41%
Se 196.026†	14.9	0.0033	mg/L	0.00057	0.0033	mg/L	0.00057	17.40%
Sn 189.927†	-203.8	-0.0237	mg/L	0.00043	-0.0237	mg/L	0.00043	1.80%
Ti 337.279†	12.9	0.0007	mg/L	0.00036	0.0007	mg/L	0.00036	52.25%
Tl 351.924†	-20.4	-0.0014	mg/L	0.00331	-0.0014	mg/L	0.00331	235.00%
V 290.880†	1009.6	0.0045	mg/L	0.00019	0.0045	mg/L	0.00019	4.12%
Zn 206.200†	2647.6	0.0266	mg/L	0.00025	0.0266	mg/L	0.00025	0.93%
Zr 343.823†	152.2	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	41.34%

Sequence No.: 21

Sample ID: 24D1394-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 46

Date Collected: 4/17/2024 12:18:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1394-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5435117.5	98.92	%	1.191				1.20%
Y radial	206363.2	107.4	%	2.12				1.97%
Ag 328.068†	349.8	0.0012	mg/L	0.00030	0.0012	mg/L	0.00030	24.93%
Al 396.153†	52.1	0.0135	mg/L	0.00623	0.0135	mg/L	0.00623	46.33%
As 188.979†	-2.4	-0.0002	mg/L	0.00080	-0.0002	mg/L	0.00080	349.66%
B 208.889†	2028.2	0.1082	mg/L	0.00407	0.1082	mg/L	0.00407	3.77%
Ba 233.527†	4341.8	0.0256	mg/L	0.00018	0.0256	mg/L	0.00018	0.72%
Be 313.107†	36.0	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	78.27%
Ca 317.933†	175099.3	25.19	mg/L	0.371	25.19	mg/L	0.371	1.47%
Cd 228.802†	5.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	47.76%
Co 228.616†	74.2	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	16.88%
Cr 267.716†	130.8	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	7.48%
Cu 327.393†	3756.6	0.0211	mg/L	0.00054	0.0211	mg/L	0.00054	2.55%
Fe 238.204†	119.9	0.0505	mg/L	0.00137	0.0505	mg/L	0.00137	2.72%
K 766.490†	62112.3	18.76	mg/L	0.215	18.76	mg/L	0.215	1.15%
Mg 285.213†	45077.1	5.238	mg/L	0.0321	5.238	mg/L	0.0321	0.61%
Mn 257.610†	397.8	0.0159	mg/L	0.00045	0.0159	mg/L	0.00045	2.82%
Mo 202.031†	19.1	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	21.19%
Na 589.592†	647176.9	53.22	mg/L	0.608	53.22	mg/L	0.608	1.14%
Ni 231.604†	73.0	0.0018	mg/L	0.00025	0.0018	mg/L	0.00025	13.85%
Pb 220.353†	6.7	0.0005	mg/L	0.00060	0.0005	mg/L	0.00060	119.52%
Sb 206.836†	12.8	0.0019	mg/L	0.00057	0.0019	mg/L	0.00057	30.68%
Se 196.026†	7.9	0.0003	mg/L	0.00142	0.0003	mg/L	0.00142	490.88%
Sn 189.927†	-199.2	-0.0232	mg/L	0.00035	-0.0232	mg/L	0.00035	1.49%

Analyte	Mean	Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.		
Y axial	5462640.8	99.42	%	0.471			0.47%
Y radial	207904.7	108.2	%	1.01			0.93%
Ag 328.068†	649301.5	2.166	mg/L	0.0281	2.166	mg/L	0.0281
QC value	less than the lower limit for Ag 328.068 Recovery = 86.63%						
Al 396.153†	39102.8	9.861	mg/L	0.0348	9.861	mg/L	0.0348
QC value	within limits for Al 396.153 Recovery = 98.61%						
As 188.979†	16052.9	4.800	mg/L	0.0476	4.800	mg/L	0.0476
QC value	within limits for As 188.979 Recovery = 96.01%						
B 208.889†	89154.6	4.515	mg/L	0.0315	4.515	mg/L	0.0315
QC value	within limits for B 208.889 Recovery = 90.30%						

Ba 233.527†	816257.1	4.828 mg/L	0.0185	4.828 mg/L	0.0185	0.38%
QC value within limits for Ba 233.527		Recovery = 96.56%				
Be 313.107†	2138535.3	4.821 mg/L	0.0252	4.821 mg/L	0.0252	0.52%
QC value within limits for Be 313.107		Recovery = 96.42%				
Ca 317.933†	66144.9	9.514 mg/L	0.0807	9.514 mg/L	0.0807	0.85%
QC value within limits for Ca 317.933		Recovery = 95.14%				
Cd 228.802†	550572.1	4.747 mg/L	0.0222	4.747 mg/L	0.0222	0.47%
QC value within limits for Cd 228.802		Recovery = 94.93%				
Co 228.616†	485819.1	4.807 mg/L	0.0212	4.807 mg/L	0.0212	0.44%
QC value within limits for Co 228.616		Recovery = 96.14%				
Cr 267.716†	627401.1	4.801 mg/L	0.0186	4.801 mg/L	0.0186	0.39%
QC value within limits for Cr 267.716		Recovery = 96.02%				
Cu 327.393†	849099.3	4.791 mg/L	0.0169	4.791 mg/L	0.0169	0.35%
QC value within limits for Cu 327.393		Recovery = 95.82%				
Fe 238.204†	11299.7	4.782 mg/L	0.0233	4.782 mg/L	0.0233	0.49%
QC value within limits for Fe 238.204		Recovery = 95.65%				
K 766.490†	31911.4	9.639 mg/L	0.0289	9.639 mg/L	0.0289	0.30%
QC value within limits for K 766.490		Recovery = 96.39%				
Mg 285.213†	83760.7	9.723 mg/L	0.0367	9.723 mg/L	0.0367	0.38%
QC value within limits for Mg 285.213		Recovery = 97.23%				
Mn 257.610†	119512.5	4.783 mg/L	0.0318	4.783 mg/L	0.0318	0.66%
QC value within limits for Mn 257.610		Recovery = 95.66%				
Mo 202.031†	120779.6	4.797 mg/L	0.0179	4.797 mg/L	0.0179	0.37%
QC value within limits for Mo 202.031		Recovery = 95.94%				
Na 589.592†	139431.7	11.47 mg/L	0.045	11.47 mg/L	0.045	0.39%
QC value greater than the upper limit for Na 589.592		Recovery = 114.67%				
Ni 231.604†	192076.0	4.819 mg/L	0.0176	4.819 mg/L	0.0176	0.37%
QC value within limits for Ni 231.604		Recovery = 96.38%				
Pb 220.353†	60004.1	4.824 mg/L	0.0469	4.824 mg/L	0.0469	0.97%
QC value within limits for Pb 220.353		Recovery = 96.49%				
Sb 206.836†	30597.7	4.777 mg/L	0.0493	4.777 mg/L	0.0493	1.03%
QC value within limits for Sb 206.836		Recovery = 95.54%				
Se 196.026†	9711.6	4.828 mg/L	0.0579	4.828 mg/L	0.0579	1.20%
QC value within limits for Se 196.026		Recovery = 96.55%				
Sn 189.927†	41414.5	4.808 mg/L	0.0432	4.808 mg/L	0.0432	0.90%
QC value within limits for Sn 189.927		Recovery = 96.15%				
Ti 337.279†	91806.3	4.842 mg/L	0.0247	4.842 mg/L	0.0247	0.51%
QC value within limits for Ti 337.279		Recovery = 96.85%				
Tl 351.924†	28690.0	2.376 mg/L	0.0253	2.376 mg/L	0.0253	1.07%
QC value within limits for Tl 351.924		Recovery = 95.04%				
V 290.880†	1064143.4	4.789 mg/L	0.0225	4.789 mg/L	0.0225	0.47%
QC value within limits for V 290.880		Recovery = 95.77%				
Zn 206.200†	345870.6	4.821 mg/L	0.0237	4.821 mg/L	0.0237	0.49%
QC value within limits for Zn 206.200		Recovery = 96.43%				
Zr 343.823†	2169240.8	4.818 mg/L	0.0165	4.818 mg/L	0.0165	0.34%
QC Failed. Continue with analysis.						

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 12:35:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5454815.8	99.28 %	1.356			1.37%
Y radial	205933.9	107.2 %	0.29			0.27%
Ag 328.068†	965.0	0.0033 mg/L	0.00055	0.0033 mg/L	0.00055	16.90%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153†	8.1	0.0021 mg/L	0.00160	0.0021 mg/L	0.00160	77.25%
QC value within limits for Al 396.153		Recovery = Not calculated				
As 188.979†	6.5	0.0019 mg/L	0.00152	0.0019 mg/L	0.00152	79.02%
QC value within limits for As 188.979		Recovery = Not calculated				
B 208.889†	-157.0	-0.0084 mg/L	0.00294	-0.0084 mg/L	0.00294	34.84%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	-0.4	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	>999.9%

QC value within limits for Ba 233.527 Recovery = Not calculated
 Be 313.107† 10.2 0.0000 mg/L 0.00003 0.0000 mg/L 0.00003 265.87%
 QC value within limits for Be 313.107 Recovery = Not calculated
 Ca 317.933† -1.1 -0.0002 mg/L 0.00173 -0.0002 mg/L 0.00173 >999.9%
 QC value within limits for Ca 317.933 Recovery = Not calculated
 Cd 228.802† 9.8 0.0000 mg/L 0.00005 0.0000 mg/L 0.00005 118.84%
 QC value within limits for Cd 228.802 Recovery = Not calculated
 Co 228.616† 17.0 0.0002 mg/L 0.00004 0.0002 mg/L 0.00004 25.70%
 QC value within limits for Co 228.616 Recovery = Not calculated
 Cr 267.716† -7.5 -0.0001 mg/L 0.00004 -0.0001 mg/L 0.00004 69.42%
 QC value within limits for Cr 267.716 Recovery = Not calculated
 Cu 327.393† 607.7 0.0034 mg/L 0.00030 0.0034 mg/L 0.00030 8.76%
 QC value within limits for Cu 327.393 Recovery = Not calculated
 Fe 238.204† 6.1 0.0026 mg/L 0.00121 0.0026 mg/L 0.00121 47.58%
 QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† 482.2 0.1456 mg/L 0.01478 0.1456 mg/L 0.01478 10.15%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 3.3 0.0004 mg/L 0.00033 0.0004 mg/L 0.00033 86.68%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 1.6 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 134.42%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 24.3 0.0010 mg/L 0.00014 0.0010 mg/L 0.00014 14.84%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 26255.7 2.159 mg/L 0.0302 2.159 mg/L 0.0302 1.40%
 QC value greater than the upper limit for Na 589.592 Recovery = Not calculated
 Ni 231.604† -24.2 -0.0006 mg/L 0.00056 -0.0006 mg/L 0.00056 92.50%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 2.1 0.0002 mg/L 0.00062 0.0002 mg/L 0.00062 378.50%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 4.8 0.0008 mg/L 0.00102 0.0008 mg/L 0.00102 132.31%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† -0.6 -0.0003 mg/L 0.00099 -0.0003 mg/L 0.00099 365.81%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 7.7 0.0009 mg/L 0.00032 0.0009 mg/L 0.00032 35.27%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -5.7 -0.0003 mg/L 0.00026 -0.0003 mg/L 0.00026 86.32%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 54.6 0.0046 mg/L 0.00258 0.0046 mg/L 0.00258 56.11%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 506.9 0.0023 mg/L 0.00040 0.0023 mg/L 0.00040 17.65%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 71.5 0.0008 mg/L 0.00006 0.0008 mg/L 0.00006 7.28%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -85.7 -0.0002 mg/L 0.00010 -0.0002 mg/L 0.00010 53.20%
 QC Failed. Continue with analysis.

Sequence No.: 25

Sample ID: 24D1649-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 48

Date Collected: 4/17/2024 12:41:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1649-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4950410.5	90.10 %		0.676			0.75%
Y radial	189663.9	98.71 %		3.038			3.08%
Ag 328.068†	328.5	0.0011 mg/L		0.00018	0.0011 mg/L	0.00018	16.67%
Al 396.153†	1953.6	0.5054 mg/L		0.01638	0.5054 mg/L	0.01638	3.24%
As 188.979†	-123.2	-0.0360 mg/L		0.00057	-0.0360 mg/L	0.00057	1.59%
B 208.889†	572.9	0.0305 mg/L		0.00279	0.0305 mg/L	0.00279	9.14%
Ba 233.527†	2208.0	0.0129 mg/L		0.00016	0.0129 mg/L	0.00016	1.25%
Be 313.107†	53.7	0.0001 mg/L		0.00007	0.0001 mg/L	0.00007	83.69%
Ca 317.933†	164976.8	23.73 mg/L		0.451	23.73 mg/L	0.451	1.90%
Cd 228.802†	30.7	0.0011 mg/L		0.00002	0.0011 mg/L	0.00002	1.54%
Co 228.616†	70.5	0.0007 mg/L		0.00007	0.0007 mg/L	0.00007	9.66%
Cr 267.716†	1731.5	0.0132 mg/L		0.00047	0.0132 mg/L	0.00047	3.60%

Cu 327.393†	12020.7	0.0676 mg/L	0.00042	0.0676 mg/L	0.00042	0.62%
Fe 238.204†	2943.3	1.239 mg/L	0.0335	1.239 mg/L	0.0335	2.71%
K 766.490†	83294.8	25.16 mg/L	0.262	25.16 mg/L	0.262	1.04%
Mg 285.213†	23886.6	2.774 mg/L	0.0796	2.774 mg/L	0.0796	2.87%
Mn 257.610†	4177.0	0.1673 mg/L	0.00518	0.1673 mg/L	0.00518	3.10%
Mo 202.031†	11.7	0.0005 mg/L	0.00025	0.0005 mg/L	0.00025	53.02%
Na 589.592†	2708589.4	222.8 mg/L	2.90	222.8 mg/L	2.90	1.30%
Ni 231.604†	407.9	0.0102 mg/L	0.00055	0.0102 mg/L	0.00055	5.37%
Pb 220.353†	17.4	0.0013 mg/L	0.00025	0.0013 mg/L	0.00025	19.12%
Sb 206.836†	75.4	0.0115 mg/L	0.00136	0.0115 mg/L	0.00136	11.75%
Se 196.026†	60.7	0.0271 mg/L	0.00347	0.0271 mg/L	0.00347	12.78%
Sn 189.927†	-180.4	-0.0210 mg/L	0.00052	-0.0210 mg/L	0.00052	2.50%
Ti 337.279†	104.9	0.0055 mg/L	0.00026	0.0055 mg/L	0.00026	4.70%
Tl 351.924†	15.0	0.0020 mg/L	0.00583	0.0020 mg/L	0.00583	289.09%
V 290.880†	1744.0	0.0078 mg/L	0.00056	0.0078 mg/L	0.00056	7.25%
Zn 206.200†	8515.8	0.0992 mg/L	0.00099	0.0992 mg/L	0.00099	1.00%
Zr 343.823†	1099.9	0.0024 mg/L	0.00032	0.0024 mg/L	0.00032	13.21%

Sequence No.: 26

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 11

Date Collected: 4/17/2024 12:47:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5001240.3	91.02 %	0.195			0.21%
Y radial	196894.2	102.5 %	1.16			1.13%
Ag 328.068†	-1574.5	-0.0033 mg/L	0.00014	-0.0033 mg/L	0.00014	4.24%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	972980.9	251.7 mg/L	1.22	251.7 mg/L	1.22	0.48%
QC value within limits for Al 396.153	Recovery = 100.69%					
As 188.979†	-104.7	0.0007 mg/L	0.00392	0.0007 mg/L	0.00392	539.67%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	-535.7	-0.0284 mg/L	0.00126	-0.0284 mg/L	0.00126	4.46%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	1625.7	-0.0024 mg/L	0.00009	-0.0024 mg/L	0.00009	3.65%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	76.2	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	20.41%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	1606646.5	231.1 mg/L	1.05	231.1 mg/L	1.05	0.45%
QC value within limits for Ca 317.933	Recovery = 92.44%					
Cd 228.802†	-137.6	0.0007 mg/L	0.00005	0.0007 mg/L	0.00005	7.72%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-37.4	-0.0004 mg/L	0.00006	-0.0004 mg/L	0.00006	15.90%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	281.2	0.0022 mg/L	0.00005	0.0022 mg/L	0.00005	2.43%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-76.7	-0.0004 mg/L	0.00012	-0.0004 mg/L	0.00012	27.73%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	215127.5	90.56 mg/L	0.457	90.56 mg/L	0.457	0.51%
QC value within limits for Fe 238.204	Recovery = 90.56%					
K 766.490†	594.5	0.1796 mg/L	0.00538	0.1796 mg/L	0.00538	3.00%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1894262.9	220.4 mg/L	1.24	220.4 mg/L	1.24	0.56%
QC value within limits for Mg 285.213	Recovery = 88.17%					
Mn 257.610†	-85.0	0.0037 mg/L	0.00027	0.0037 mg/L	0.00027	7.29%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	-105.9	-0.0042 mg/L	0.00037	-0.0042 mg/L	0.00037	8.70%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	24339.6	2.002 mg/L	0.0183	2.002 mg/L	0.0183	0.92%
QC value greater than the upper limit for Na 589.592	Recovery = Not calculated					
Ni 231.604†	241.4	0.0061 mg/L	0.00026	0.0061 mg/L	0.00026	4.34%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-306.7	0.0037 mg/L	0.00093	0.0037 mg/L	0.00093	24.99%
QC value within limits for Pb 220.353	Recovery = Not calculated					

Sb 206.836†	36.1	0.0095 mg/L	0.00135	0.0095 mg/L	0.00135	14.18%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	71.9	-0.0289 mg/L	0.00342	-0.0289 mg/L	0.00342	11.86%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-550.2	-0.0639 mg/L	0.00061	-0.0639 mg/L	0.00061	0.96%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	11.8	0.0006 mg/L	0.00034	0.0006 mg/L	0.00034	55.19%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-707.9	-0.0008 mg/L	0.00055	-0.0008 mg/L	0.00055	68.19%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	2281.8	0.0037 mg/L	0.00051	0.0037 mg/L	0.00051	13.81%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	285.5	-0.0025 mg/L	0.00006	-0.0025 mg/L	0.00006	2.47%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	1144.2	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.85%
QC Failed. Continue with analysis.						

Sequence No.: 27

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/17/2024 12:52:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5042371.8	91.77 %		1.428			1.56%
Y radial	198867.8	103.5 %		0.87			0.84%
Ag 328.068†	116616.4	0.3986 mg/L		0.00359	0.3986 mg/L	0.00359	0.90%
QC value within limits for Ag 328.068 Recovery = 99.65%							
Al 396.153†	972458.4	251.6 mg/L		1.67	251.6 mg/L	1.67	0.66%
QC value within limits for Al 396.153 Recovery = 100.64%							
As 188.979†	539.3	0.1890 mg/L		0.00134	0.1890 mg/L	0.00134	0.71%
QC value within limits for As 188.979 Recovery = 94.49%							
B 208.889†	-779.7	-0.0413 mg/L		0.00150	-0.0413 mg/L	0.00150	3.62%
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	161450.3	0.9427 mg/L		0.01033	0.9427 mg/L	0.01033	1.10%
QC value within limits for Ba 233.527 Recovery = 94.27%							
Be 313.107†	429025.5	0.9672 mg/L		0.00504	0.9672 mg/L	0.00504	0.52%
QC value within limits for Be 313.107 Recovery = 96.72%							
Ca 317.933†	1605757.9	231.0 mg/L		1.68	231.0 mg/L	1.68	0.73%
QC value within limits for Ca 317.933 Recovery = 92.39%							
Cd 228.802†	219793.1	1.932 mg/L		0.0225	1.932 mg/L	0.0225	1.17%
QC value within limits for Cd 228.802 Recovery = 96.58%							
Co 228.616†	87860.8	0.8680 mg/L		0.00973	0.8680 mg/L	0.00973	1.12%
QC value within limits for Co 228.616 Recovery = 86.80%							
Cr 267.716†	119516.4	0.9148 mg/L		0.01084	0.9148 mg/L	0.01084	1.18%
QC value within limits for Cr 267.716 Recovery = 91.48%							
Cu 327.393†	171915.1	0.9666 mg/L		0.00752	0.9666 mg/L	0.00752	0.78%
QC value within limits for Cu 327.393 Recovery = 96.66%							
Fe 238.204†	215385.5	90.68 mg/L		0.619	90.68 mg/L	0.619	0.68%
QC value within limits for Fe 238.204 Recovery = 90.68%							
K 766.490†	428.8	0.1295 mg/L		0.00628	0.1295 mg/L	0.00628	4.85%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	1893619.3	220.4 mg/L		1.24	220.4 mg/L	1.24	0.56%
QC value within limits for Mg 285.213 Recovery = 88.15%							
Mn 257.610†	22418.3	0.9042 mg/L		0.00697	0.9042 mg/L	0.00697	0.77%
QC value within limits for Mn 257.610 Recovery = 90.42%							
Mo 202.031†	-124.8	-0.0050 mg/L		0.00054	-0.0050 mg/L	0.00054	10.79%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	19990.8	1.644 mg/L		0.0156	1.644 mg/L	0.0156	0.95%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	68629.7	1.722 mg/L		0.0203	1.722 mg/L	0.0203	1.18%
QC value within limits for Ni 231.604 Recovery = 86.12%							
Pb 220.353†	818.7	0.0933 mg/L		0.00107	0.0933 mg/L	0.00107	1.15%
QC value within limits for Pb 220.353 Recovery = 93.27%							
Sb 206.836†	6924.5	1.078 mg/L		0.0172	1.078 mg/L	0.0172	1.59%

QC value within limits for Sb 206.836 Recovery = 89.85%
 Se 196.026† 1057.0 0.4606 mg/L 0.01283 0.4606 mg/L 0.01283 2.78%
 QC value within limits for Se 196.026 Recovery = 92.12%
 Sn 189.927† -552.5 -0.0642 mg/L 0.00140 -0.0642 mg/L 0.00140 2.19%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 10.9 0.0006 mg/L 0.00028 0.0006 mg/L 0.00028 48.69%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 1738.6 0.2013 mg/L 0.00366 0.2013 mg/L 0.00366 1.82%
 QC value within limits for Tl 351.924 Recovery = 100.64%
 V 290.880† 209909.3 0.9380 mg/L 0.01096 0.9380 mg/L 0.01096 1.17%
 QC value within limits for V 290.880 Recovery = 93.80%
 Zn 206.200† 126652.1 1.755 mg/L 0.0238 1.755 mg/L 0.0238 1.35%
 QC value within limits for Zn 206.200 Recovery = 87.75%
 Zr 343.823† 1249.4 0.0006 mg/L 0.00012 0.0006 mg/L 0.00012 19.12%
 All analyte(s) passed QC.

Sequence No.: 28

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 12:58:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5348314.8	97.34 %	0.305			0.31%
Y radial	205791.9	107.1 %	0.93			0.87%
Ag 328.068†	714834.5	2.386 mg/L	0.0110	2.386 mg/L	0.0110	0.46%
QC value within limits for Ag 328.068			Recovery = 95.46%			
Al 396.153†	37328.9	9.400 mg/L	0.1930	9.400 mg/L	0.1930	2.05%
QC value within limits for Al 396.153			Recovery = 94.00%			
As 188.979†	16005.0	4.785 mg/L	0.0270	4.785 mg/L	0.0270	0.56%
QC value within limits for As 188.979			Recovery = 95.70%			
B 208.889†	90069.4	4.563 mg/L	0.0071	4.563 mg/L	0.0071	0.15%
QC value within limits for B 208.889			Recovery = 91.25%			
Ba 233.527†	819212.4	4.846 mg/L	0.0054	4.846 mg/L	0.0054	0.11%
QC value within limits for Ba 233.527			Recovery = 96.91%			
Be 313.107†	2140988.8	4.827 mg/L	0.0182	4.827 mg/L	0.0182	0.38%
QC value within limits for Be 313.107			Recovery = 96.53%			
Ca 317.933†	64796.8	9.320 mg/L	0.1338	9.320 mg/L	0.1338	1.44%
QC value within limits for Ca 317.933			Recovery = 93.20%			
Cd 228.802†	554790.2	4.784 mg/L	0.0050	4.784 mg/L	0.0050	0.10%
QC value within limits for Cd 228.802			Recovery = 95.68%			
Co 228.616†	488139.2	4.830 mg/L	0.0031	4.830 mg/L	0.0031	0.06%
QC value within limits for Co 228.616			Recovery = 96.60%			
Cr 267.716†	630286.6	4.823 mg/L	0.0114	4.823 mg/L	0.0114	0.24%
QC value within limits for Cr 267.716			Recovery = 96.47%			
Cu 327.393†	852335.1	4.810 mg/L	0.0149	4.810 mg/L	0.0149	0.31%
QC value within limits for Cu 327.393			Recovery = 96.19%			
Fe 238.204†	10995.8	4.654 mg/L	0.0753	4.654 mg/L	0.0753	1.62%
QC value within limits for Fe 238.204			Recovery = 93.09%			
K 766.490†	31330.0	9.464 mg/L	0.1681	9.464 mg/L	0.1681	1.78%
QC value within limits for K 766.490			Recovery = 94.64%			
Mg 285.213†	81430.6	9.452 mg/L	0.1633	9.452 mg/L	0.1633	1.73%
QC value within limits for Mg 285.213			Recovery = 94.52%			
Mn 257.610†	117122.0	4.687 mg/L	0.0740	4.687 mg/L	0.0740	1.58%
QC value within limits for Mn 257.610			Recovery = 93.75%			
Mo 202.031†	121410.3	4.822 mg/L	0.0054	4.822 mg/L	0.0054	0.11%
QC value within limits for Mo 202.031			Recovery = 96.44%			
Na 589.592†	126289.6	10.39 mg/L	0.045	10.39 mg/L	0.045	0.44%
QC value within limits for Na 589.592			Recovery = 103.86%			
Ni 231.604†	192787.4	4.837 mg/L	0.0102	4.837 mg/L	0.0102	0.21%
QC value within limits for Ni 231.604			Recovery = 96.74%			
Pb 220.353†	60294.2	4.848 mg/L	0.0229	4.848 mg/L	0.0229	0.47%
QC value within limits for Pb 220.353			Recovery = 96.96%			
Sb 206.836†	30707.9	4.794 mg/L	0.0188	4.794 mg/L	0.0188	0.39%
QC value within limits for Sb 206.836			Recovery = 95.89%			

Se 196.026†	9722.2	4.833 mg/L	0.0237	4.833 mg/L	0.0237	0.49%
QC value within limits for Se 196.026 Recovery = 96.66%						
Sn 189.927†	41626.4	4.832 mg/L	0.0293	4.832 mg/L	0.0293	0.61%
QC value within limits for Sn 189.927 Recovery = 96.65%						
Ti 337.279†	90250.1	4.760 mg/L	0.0863	4.760 mg/L	0.0863	1.81%
QC value within limits for Ti 337.279 Recovery = 95.21%						
Tl 351.924†	28585.9	2.367 mg/L	0.0209	2.367 mg/L	0.0209	0.88%
QC value within limits for Tl 351.924 Recovery = 94.69%						
V 290.880†	1071043.0	4.820 mg/L	0.0044	4.820 mg/L	0.0044	0.09%
QC value within limits for V 290.880 Recovery = 96.39%						
Zn 206.200†	349379.2	4.869 mg/L	0.0069	4.869 mg/L	0.0069	0.14%
QC value within limits for Zn 206.200 Recovery = 97.38%						
Zr 343.823†	2180871.0	4.844 mg/L	0.0080	4.844 mg/L	0.0080	0.17%
All analyte(s) passed QC.						

Sequence No.: 29

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 1:03:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5571443.2	101.4 %	0.83			0.82%
Y radial	206376.4	107.4 %	1.75			1.63%
Ag 328.068†	654.2	0.0022 mg/L	0.00021	0.0022 mg/L	0.00021	9.42%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	1.6	0.0004 mg/L	0.00666	0.0004 mg/L	0.00666	>999.9%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	3.3	0.0010 mg/L	0.00188	0.0010 mg/L	0.00188	185.55%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-1073.3	-0.0573 mg/L	0.00089	-0.0573 mg/L	0.00089	1.56%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	14.7	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	90.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	52.3	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	57.42%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	16.5	0.0024 mg/L	0.00295	0.0024 mg/L	0.00295	124.34%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	13.5	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	5.38%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	27.9	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	3.98%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-2.9	-0.0000 mg/L	0.00008	-0.0000 mg/L	0.00008	395.56%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-167.2	-0.0009 mg/L	0.00030	-0.0009 mg/L	0.00030	32.20%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	3.9	0.0016 mg/L	0.00023	0.0016 mg/L	0.00023	13.81%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	348.5	0.1053 mg/L	0.00618	0.1053 mg/L	0.00618	5.88%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	22.5	0.0026 mg/L	0.00073	0.0026 mg/L	0.00073	27.71%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	1.4	0.0001 mg/L	0.00023	0.0001 mg/L	0.00023	426.12%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	25.4	0.0010 mg/L	0.00011	0.0010 mg/L	0.00011	10.53%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	10455.2	0.8598 mg/L	0.01794	0.8598 mg/L	0.01794	2.09%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-12.3	-0.0003 mg/L	0.00018	-0.0003 mg/L	0.00018	58.45%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	2.1	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	103.17%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	5.7	0.0009 mg/L	0.00072	0.0009 mg/L	0.00072	79.19%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.5	0.0022 mg/L	0.00228	0.0022 mg/L	0.00228	102.62%

QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 5.0 0.0006 mg/L 0.00035 0.0006 mg/L 0.00035 60.01%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 2.7 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 63.84%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -24.5 -0.0021 mg/L 0.00358 -0.0021 mg/L 0.00358 172.77%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 479.0 0.0022 mg/L 0.00002 0.0022 mg/L 0.00002 0.78%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 44.8 0.0005 mg/L 0.00009 0.0005 mg/L 0.00009 17.45%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -95.7 -0.0002 mg/L 0.00012 -0.0002 mg/L 0.00012 55.12%
 All analyte(s) passed QC.

Sequence No.: 30

Sample ID: B371656-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 49

Date Collected: 4/17/2024 1:09:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4668382.3	84.96 %		0.293			0.35%
Y radial	195493.5	101.7 %		0.30			0.29%
Ag 328.068†	562.4	0.0019 mg/L		0.00009	0.0019 mg/L	0.00009	4.84%
Al 396.153†	705.2	0.1824 mg/L		0.00386	0.1824 mg/L	0.00386	2.12%
As 188.979†	-46.5	-0.0140 mg/L		0.00186	-0.0140 mg/L	0.00186	13.33%
B 208.889†	4205.2	0.2243 mg/L		0.00130	0.2243 mg/L	0.00130	0.58%
Ba 233.527†	745.6	0.0044 mg/L		0.00006	0.0044 mg/L	0.00006	1.35%
Be 313.107†	15.1	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	107.48%
Ca 317.933†	7468.8	1.074 mg/L		0.0119	1.074 mg/L	0.0119	1.11%
Cd 228.802†	32.8	0.0006 mg/L		0.00012	0.0006 mg/L	0.00012	20.49%
Co 228.616†	36.9	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	16.55%
Cr 267.716†	113.8	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	12.19%
Cu 327.393†	5196.8	0.0292 mg/L		0.00072	0.0292 mg/L	0.00072	2.45%
Fe 238.204†	79.8	0.0336 mg/L		0.00116	0.0336 mg/L	0.00116	3.46%
K 766.490†	4736.7	1.431 mg/L		0.0286	1.431 mg/L	0.0286	2.00%
Mg 285.213†	3037.7	0.3532 mg/L		0.00103	0.3532 mg/L	0.00103	0.29%
Mn 257.610†	74.2	0.0030 mg/L		0.00004	0.0030 mg/L	0.00004	1.32%
Mo 202.031†	11.6	0.0005 mg/L		0.00008	0.0005 mg/L	0.00008	17.51%
Na 589.592†	Saturated2						
Ni 231.604†	181.6	0.0046 mg/L		0.00008	0.0046 mg/L	0.00008	1.66%
Pb 220.353†	3.2	0.0002 mg/L		0.00042	0.0002 mg/L	0.00042	187.68%
Sb 206.836†	38.5	0.0061 mg/L		0.00095	0.0061 mg/L	0.00095	15.62%
Se 196.026†	26.1	0.0128 mg/L		0.00152	0.0128 mg/L	0.00152	11.91%
Sn 189.927†	11.2	0.0013 mg/L		0.00012	0.0013 mg/L	0.00012	9.52%
Ti 337.279†	51.7	0.0027 mg/L		0.00030	0.0027 mg/L	0.00030	11.01%
Tl 351.924†	-3.5	-0.0003 mg/L		0.00470	-0.0003 mg/L	0.00470	>999.9%
V 290.880†	2177.0	0.0098 mg/L		0.00010	0.0098 mg/L	0.00010	1.05%
Zn 206.200†	551.4	0.0076 mg/L		0.00053	0.0076 mg/L	0.00053	6.97%
Zr 343.823†	262.9	0.0006 mg/L		0.00009	0.0006 mg/L	0.00009	16.04%

Sequence No.: 31

Sample ID: B371656-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 50

Date Collected: 4/17/2024 1:16:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4688044.6	85.32 %		1.350			1.58%
Y radial	194876.0	101.4 %		0.79			0.78%

Ag 328.068†	161682.1	0.5466 mg/L	0.01110	0.5466 mg/L	0.01110	2.03%
Al 396.153†	2684.7	0.6751 mg/L	0.00383	0.6751 mg/L	0.00383	0.57%
As 188.979†	1724.9	0.5165 mg/L	0.00914	0.5165 mg/L	0.00914	1.77%
B 208.889†	22377.5	1.169 mg/L	0.0247	1.169 mg/L	0.0247	2.12%
Ba 233.527†	84718.6	0.5007 mg/L	0.00955	0.5007 mg/L	0.00955	1.91%
Be 313.107†	212227.1	0.4783 mg/L	0.00543	0.4783 mg/L	0.00543	1.13%
Ca 317.933†	33714.2	4.850 mg/L	0.0337	4.850 mg/L	0.0337	0.70%
Cd 228.802†	61932.1	0.5342 mg/L	0.01005	0.5342 mg/L	0.01005	1.88%
Co 228.616†	47715.5	0.4722 mg/L	0.00833	0.4722 mg/L	0.00833	1.76%
Cr 267.716†	64021.7	0.4899 mg/L	0.00864	0.4899 mg/L	0.00864	1.76%
Cu 327.393†	189477.5	1.065 mg/L	0.0228	1.065 mg/L	0.0228	2.14%
Fe 238.204†	8939.2	3.765 mg/L	0.0225	3.765 mg/L	0.0225	0.60%
K 766.490†	19320.2	5.836 mg/L	0.0544	5.836 mg/L	0.0544	0.93%
Mg 285.213†	36223.7	4.217 mg/L	0.0370	4.217 mg/L	0.0370	0.88%
Mn 257.610†	11607.6	0.4648 mg/L	0.00363	0.4648 mg/L	0.00363	0.78%
Mo 202.031†	12381.9	0.4918 mg/L	0.00932	0.4918 mg/L	0.00932	1.90%
Na 589.592†	Saturated2					
Ni 231.604†	18887.4	0.4737 mg/L	0.00898	0.4737 mg/L	0.00898	1.90%
Pb 220.353†	5922.8	0.4748 mg/L	0.00890	0.4748 mg/L	0.00890	1.87%
Sb 206.836†	3319.2	0.5182 mg/L	0.01044	0.5182 mg/L	0.01044	2.01%
Se 196.026†	1177.3	0.5840 mg/L	0.01099	0.5840 mg/L	0.01099	1.88%
Sn 189.927†	3994.8	0.4642 mg/L	0.00843	0.4642 mg/L	0.00843	1.82%
Ti 337.279†	9291.6	0.4904 mg/L	0.00499	0.4904 mg/L	0.00499	1.02%
Tl 351.924†	6425.2	0.5397 mg/L	0.01236	0.5397 mg/L	0.01236	2.29%
V 290.880†	112480.0	0.5059 mg/L	0.01019	0.5059 mg/L	0.01019	2.02%
Zn 206.200†	75617.4	1.049 mg/L	0.0157	1.049 mg/L	0.0157	1.49%
Zr 343.823†	1708.9	0.0037 mg/L	0.00076	0.0037 mg/L	0.00076	20.64%

Sequence No.: 32

Sample ID: B371656-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 51

Date Collected: 4/17/2024 1:23:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4634315.5	84.34	%	1.062				1.26%
Y radial	197358.9	102.7	%	1.02				1.00%
Ag 328.068†	162829.9	0.5504	mg/L	0.00146	0.5504	mg/L	0.00146	0.27%
Al 396.153†	2654.6	0.6672	mg/L	0.00166	0.6672	mg/L	0.00166	0.25%
As 188.979†	1747.1	0.5231	mg/L	0.00560	0.5231	mg/L	0.00560	1.07%
B 208.889†	22507.5	1.176	mg/L	0.0060	1.176	mg/L	0.0060	0.51%
Ba 233.527†	84880.1	0.5016	mg/L	0.00027	0.5016	mg/L	0.00027	0.05%
Be 313.107†	211332.4	0.4763	mg/L	0.01261	0.4763	mg/L	0.01261	2.65%
Ca 317.933†	33409.3	4.806	mg/L	0.0413	4.806	mg/L	0.0413	0.86%
Cd 228.802†	62163.5	0.5361	mg/L	0.00111	0.5361	mg/L	0.00111	0.21%
Co 228.616†	47720.9	0.4722	mg/L	0.00029	0.4722	mg/L	0.00029	0.06%
Cr 267.716†	64008.5	0.4898	mg/L	0.00139	0.4898	mg/L	0.00139	0.28%
Cu 327.393†	191450.8	1.076	mg/L	0.0053	1.076	mg/L	0.0053	0.49%
Fe 238.204†	8886.4	3.743	mg/L	0.0238	3.743	mg/L	0.0238	0.63%
K 766.490†	18529.8	5.597	mg/L	0.0367	5.597	mg/L	0.0367	0.66%
Mg 285.213†	35948.6	4.185	mg/L	0.0206	4.185	mg/L	0.0206	0.49%
Mn 257.610†	11537.0	0.4620	mg/L	0.00167	0.4620	mg/L	0.00167	0.36%
Mo 202.031†	12477.3	0.4956	mg/L	0.00558	0.4956	mg/L	0.00558	1.13%
Na 589.592†	Saturated2							
Ni 231.604†	18880.2	0.4735	mg/L	0.00242	0.4735	mg/L	0.00242	0.51%
Pb 220.353†	5956.9	0.4776	mg/L	0.00656	0.4776	mg/L	0.00656	1.37%
Sb 206.836†	3346.1	0.5224	mg/L	0.00724	0.5224	mg/L	0.00724	1.39%
Se 196.026†	1199.5	0.5951	mg/L	0.00303	0.5951	mg/L	0.00303	0.51%
Sn 189.927†	4038.7	0.4693	mg/L	0.00519	0.4693	mg/L	0.00519	1.10%
Ti 337.279†	9212.3	0.4862	mg/L	0.00314	0.4862	mg/L	0.00314	0.64%
Tl 351.924†	6586.2	0.5533	mg/L	0.00413	0.5533	mg/L	0.00413	0.75%
V 290.880†	113034.6	0.5084	mg/L	0.00091	0.5084	mg/L	0.00091	0.18%
Zn 206.200†	75229.5	1.044	mg/L	0.0011	1.044	mg/L	0.0011	0.11%
Zr 343.823†	915.6	0.0019	mg/L	0.00019	0.0019	mg/L	0.00019	9.70%

Sequence No.: 33
 Sample ID: B371656-MS1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 52
 Date Collected: 4/17/2024 1:30:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371656-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4536053.5	82.55 %		0.801			0.97%
Y radial	191257.8	99.54 %		0.766			0.77%
Ag 328.068†	164349.1	0.5555 mg/L		0.00207	0.5555 mg/L	0.00207	0.37%
Al 396.153†	9584.1	2.460 mg/L		0.0391	2.460 mg/L	0.0391	1.59%
As 188.979†	1685.5	0.5051 mg/L		0.00762	0.5051 mg/L	0.00762	1.51%
B 208.889†	19003.7	0.9897 mg/L		0.00469	0.9897 mg/L	0.00469	0.47%
Ba 233.527†	103973.6	0.6143 mg/L		0.00263	0.6143 mg/L	0.00263	0.43%
Be 313.107†	206824.7	0.4661 mg/L		0.00295	0.4661 mg/L	0.00295	0.63%
Ca 317.933†	58896.2	8.472 mg/L		0.1317	8.472 mg/L	0.1317	1.55%
Cd 228.802†	60538.1	0.5222 mg/L		0.00152	0.5222 mg/L	0.00152	0.29%
Co 228.616†	46629.5	0.4614 mg/L		0.00253	0.4614 mg/L	0.00253	0.55%
Cr 267.716†	63804.2	0.4882 mg/L		0.00176	0.4882 mg/L	0.00176	0.36%
Cu 327.393†	193068.5	1.086 mg/L		0.0068	1.086 mg/L	0.0068	0.63%
Fe 238.204†	9343.1	3.935 mg/L		0.0686	3.935 mg/L	0.0686	1.74%
K 766.490†	39836.7	12.03 mg/L		0.137	12.03 mg/L	0.137	1.14%
Mg 285.213†	1822660.5	212.1 mg/L		1.12	212.1 mg/L	1.12	0.53%
Mn 257.610†	13794.1	0.5523 mg/L		0.00686	0.5523 mg/L	0.00686	1.24%
Mo 202.031†	12074.1	0.4795 mg/L		0.00594	0.4795 mg/L	0.00594	1.24%
Na 589.592†	Saturated2						
Ni 231.604†	18746.4	0.4701 mg/L		0.00127	0.4701 mg/L	0.00127	0.27%
Pb 220.353†	5635.6	0.4519 mg/L		0.00612	0.4519 mg/L	0.00612	1.35%
Sb 206.836†	3281.0	0.5119 mg/L		0.00536	0.5119 mg/L	0.00536	1.05%
Se 196.026†	1222.2	0.5646 mg/L		0.00450	0.5646 mg/L	0.00450	0.80%
Sn 189.927†	3742.5	0.4349 mg/L		0.00670	0.4349 mg/L	0.00670	1.54%
Ti 337.279†	9468.3	0.4997 mg/L		0.00679	0.4997 mg/L	0.00679	1.36%
Tl 351.924†	6634.9	0.5575 mg/L		0.00238	0.5575 mg/L	0.00238	0.43%
V 290.880†	111148.3	0.4999 mg/L		0.00244	0.4999 mg/L	0.00244	0.49%
Zn 206.200†	120287.4	1.668 mg/L		0.0096	1.668 mg/L	0.0096	0.57%
Zr 343.823†	3685.9	0.0081 mg/L		0.00010	0.0081 mg/L	0.00010	1.23%

Sequence No.: 34
 Sample ID: B371656-PS1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 53
 Date Collected: 4/17/2024 1:36:50 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371656-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4465788.5	81.28 %		0.369			0.45%
Y radial	183110.2	95.30 %		1.806			1.89%
Ag 328.068†	646855.1	2.186 mg/L		0.0148	2.186 mg/L	0.0148	0.68%
Al 396.153†	15349.1	3.896 mg/L		0.0218	3.896 mg/L	0.0218	0.56%
As 188.979†	6773.9	2.029 mg/L		0.0058	2.029 mg/L	0.0058	0.29%
B 208.889†	72785.0	3.787 mg/L		0.0279	3.787 mg/L	0.0279	0.74%
Ba 233.527†	346162.5	2.046 mg/L		0.0103	2.046 mg/L	0.0103	0.51%
Be 313.107†	833574.0	1.879 mg/L		0.0231	1.879 mg/L	0.0231	1.23%
Ca 317.933†	135826.5	19.54 mg/L		0.164	19.54 mg/L	0.164	0.84%
Cd 228.802†	237372.5	2.046 mg/L		0.0106	2.046 mg/L	0.0106	0.52%
Co 228.616†	182979.0	1.811 mg/L		0.0073	1.811 mg/L	0.0073	0.41%
Cr 267.716†	249953.2	1.912 mg/L		0.0075	1.912 mg/L	0.0075	0.39%
Cu 327.393†	737889.7	4.149 mg/L		0.0339	4.149 mg/L	0.0339	0.82%
Fe 238.204†	35085.5	14.78 mg/L		0.112	14.78 mg/L	0.112	0.76%
K 766.490†	86090.5	26.00 mg/L		0.235	26.00 mg/L	0.235	0.90%
Mg 285.213†	1882736.4	219.1 mg/L		2.93	219.1 mg/L	2.93	1.34%

Mn 257.610†	47758.7	1.912 mg/L	0.0162	1.912 mg/L	0.0162	0.85%
Mo 202.031†	47897.3	1.902 mg/L	0.0078	1.902 mg/L	0.0078	0.41%
Na 589.592†	Saturated2					
Ni 231.604†	71885.9	1.803 mg/L	0.0093	1.803 mg/L	0.0093	0.52%
Pb 220.353†	22239.4	1.783 mg/L	0.0058	1.783 mg/L	0.0058	0.33%
Sb 206.836†	12860.5	2.007 mg/L	0.0073	2.007 mg/L	0.0073	0.36%
Se 196.026†	4554.6	2.219 mg/L	0.0114	2.219 mg/L	0.0114	0.51%
Sn 189.927†	15382.3	1.787 mg/L	0.0062	1.787 mg/L	0.0062	0.34%
Ti 337.279†	36724.4	1.938 mg/L	0.0141	1.938 mg/L	0.0141	0.73%
Tl 351.924†	26078.9	2.191 mg/L	0.0097	2.191 mg/L	0.0097	0.44%
V 290.880†	435026.4	1.957 mg/L	0.0096	1.957 mg/L	0.0096	0.49%
Zn 206.200†	325339.0	4.513 mg/L	0.0177	4.513 mg/L	0.0177	0.39%
Zr 343.823†	4488.2	0.0096 mg/L	0.00048	0.0096 mg/L	0.00048	5.02%

Sequence No.: 35

Sample ID: B371656-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 54

Date Collected: 4/17/2024 1:43:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5104067.4	92.89 %		0.498			0.54%
Y radial	199490.4	103.8 %		1.60			1.54%
Ag 328.068†	434.5	0.0015 mg/L		0.00014	0.0015 mg/L	0.00014	9.38%
Al 396.153†	1448.5	0.3747 mg/L		0.00933	0.3747 mg/L	0.00933	2.49%
As 188.979†	2.3	0.0008 mg/L		0.00060	0.0008 mg/L	0.00060	78.63%
B 208.889†	-1012.9	-0.0540 mg/L		0.00053	-0.0540 mg/L	0.00053	0.98%
Ba 233.527†	4046.2	0.0239 mg/L		0.00007	0.0239 mg/L	0.00007	0.28%
Be 313.107†	-26.3	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	50.70%
Ca 317.933†	6588.8	0.9477 mg/L		0.01542	0.9477 mg/L	0.01542	1.63%
Cd 228.802†	14.6	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	31.35%
Co 228.616†	38.6	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	16.53%
Cr 267.716†	73.0	0.0006 mg/L		0.00003	0.0006 mg/L	0.00003	5.80%
Cu 327.393†	943.2	0.0053 mg/L		0.00028	0.0053 mg/L	0.00028	5.20%
Fe 238.204†	123.5	0.0520 mg/L		0.00058	0.0520 mg/L	0.00058	1.11%
K 766.490†	4292.6	1.297 mg/L		0.0283	1.297 mg/L	0.0283	2.18%
Mg 285.213†	382027.8	44.46 mg/L		0.681	44.46 mg/L	0.681	1.53%
Mn 257.610†	453.4	0.0181 mg/L		0.00046	0.0181 mg/L	0.00046	2.55%
Mo 202.031†	0.3	0.0000 mg/L		0.00021	0.0000 mg/L	0.00021	>999.9%
Na 589.592†	2746737.5	225.9 mg/L		3.58	225.9 mg/L	3.58	1.59%
Ni 231.604†	160.7	0.0040 mg/L		0.00011	0.0040 mg/L	0.00011	2.61%
Pb 220.353†	6.9	0.0006 mg/L		0.00011	0.0006 mg/L	0.00011	18.15%
Sb 206.836†	5.2	0.0007 mg/L		0.00083	0.0007 mg/L	0.00083	113.63%
Se 196.026†	34.5	0.0082 mg/L		0.00128	0.0082 mg/L	0.00128	15.62%
Sn 189.927†	-95.2	-0.0111 mg/L		0.00024	-0.0111 mg/L	0.00024	2.14%
Ti 337.279†	40.3	0.0021 mg/L		0.00035	0.0021 mg/L	0.00035	16.31%
Tl 351.924†	51.5	0.0044 mg/L		0.00504	0.0044 mg/L	0.00504	115.75%
V 290.880†	508.7	0.0023 mg/L		0.00039	0.0023 mg/L	0.00039	16.98%
Zn 206.200†	9911.1	0.1182 mg/L		0.00060	0.1182 mg/L	0.00060	0.51%
Zr 343.823†	457.2	0.0010 mg/L		0.00012	0.0010 mg/L	0.00012	11.53%

Sequence No.: 36

Sample ID: 24D1628-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 55

Date Collected: 4/17/2024 1:49:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1628-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4406266.4	80.19 %		1.425			1.78%
Y radial	184427.1	95.99 %		1.458			1.52%

Ag 328.068†	473.7	0.0016 mg/L	0.00032	0.0016 mg/L	0.00032	20.34%
Al 396.153†	7504.1	1.941 mg/L	0.0158	1.941 mg/L	0.0158	0.81%
As 188.979†	-39.6	-0.0116 mg/L	0.00100	-0.0116 mg/L	0.00100	8.56%
B 208.889†	294.4	0.0157 mg/L	0.00277	0.0157 mg/L	0.00277	17.61%
Ba 233.527†	21163.6	0.1249 mg/L	0.00211	0.1249 mg/L	0.00211	1.69%
Be 313.107†	174.0	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	19.34%
Ca 317.933†	33296.4	4.789 mg/L	0.0099	4.789 mg/L	0.0099	0.21%
Cd 228.802†	56.0	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	7.69%
Co 228.616†	140.8	0.0014 mg/L	0.00006	0.0014 mg/L	0.00006	4.57%
Cr 267.716†	484.1	0.0037 mg/L	0.00011	0.0037 mg/L	0.00011	3.05%
Cu 327.393†	7841.8	0.0441 mg/L	0.01381	0.0441 mg/L	0.01381	31.31%
Fe 238.204†	574.4	0.2418 mg/L	0.00443	0.2418 mg/L	0.00443	1.83%
K 766.490†	25000.5	7.552 mg/L	0.0664	7.552 mg/L	0.0664	0.88%
Mg 285.213†	1812487.1	210.9 mg/L	3.90	210.9 mg/L	3.90	1.85%
Mn 257.610†	2292.0	0.0917 mg/L	0.00139	0.0917 mg/L	0.00139	1.51%
Mo 202.031†	-7.0	-0.0003 mg/L	0.00018	-0.0003 mg/L	0.00018	65.78%
Na 589.592†	Saturated2					
Ni 231.604†	892.4	0.0224 mg/L	0.00083	0.0224 mg/L	0.00083	3.71%
Pb 220.353†	9.1	0.0009 mg/L	0.00083	0.0009 mg/L	0.00083	95.02%
Sb 206.836†	17.8	0.0026 mg/L	0.00091	0.0026 mg/L	0.00091	34.91%
Se 196.026†	80.6	-0.0024 mg/L	0.00298	-0.0024 mg/L	0.00298	124.13%
Sn 189.927†	-183.6	-0.0213 mg/L	0.00181	-0.0213 mg/L	0.00181	8.46%
Ti 337.279†	227.1	0.0120 mg/L	0.00040	0.0120 mg/L	0.00040	3.31%
Tl 351.924†	77.1	0.0066 mg/L	0.00184	0.0066 mg/L	0.00184	28.07%
V 290.880†	2059.3	0.0093 mg/L	0.00110	0.0093 mg/L	0.00110	11.87%
Zn 206.200†	51644.8	0.7161 mg/L	0.01007	0.7161 mg/L	0.01007	1.41%
Zr 343.823†	3151.7	0.0070 mg/L	0.00015	0.0070 mg/L	0.00015	2.16%

Sequence No.: 37

Sample ID: 24D1491-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 56

Date Collected: 4/17/2024 1:56:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1491-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4208884.7	76.60	%	0.863				1.13%
Y radial	172940.3	90.01	%	0.465				0.52%
Ag 328.068†	-1206.4	-0.0039	mg/L	0.00026	-0.0039	mg/L	0.00026	6.79%
Al 396.153†	764.9	0.1978	mg/L	0.01256	0.1978	mg/L	0.01256	6.35%
As 188.979†	-78.4	-0.0079	mg/L	0.00127	-0.0079	mg/L	0.00127	16.16%
B 208.889†	1357.2	0.0723	mg/L	0.00228	0.0723	mg/L	0.00228	3.15%
Ba 233.527†	31759.7	0.1876	mg/L	0.00263	0.1876	mg/L	0.00263	1.40%
Be 313.107†	138.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	17.11%
Ca 317.933†	5204059.8	748.6	mg/L	2.11	748.6	mg/L	2.11	0.28%
Cd 228.802†	10.9	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	6.90%
Co 228.616†	195.9	0.0019	mg/L	0.00009	0.0019	mg/L	0.00009	4.64%
Cr 267.716†	9299.5	0.0711	mg/L	0.00066	0.0711	mg/L	0.00066	0.92%
Cu 327.393†	3506.0	0.0197	mg/L	0.00033	0.0197	mg/L	0.00033	1.66%
Fe 238.204†	282.0	0.1187	mg/L	0.00071	0.1187	mg/L	0.00071	0.60%
K 766.490†	57664.5	17.42	mg/L	0.133	17.42	mg/L	0.133	0.77%
Mg 285.213†	58838.2	6.628	mg/L	0.0365	6.628	mg/L	0.0365	0.55%
Mn 257.610†	108.0	0.0043	mg/L	0.00013	0.0043	mg/L	0.00013	3.09%
Mo 202.031†	75.9	0.0030	mg/L	0.00017	0.0030	mg/L	0.00017	5.47%
Na 589.592†	Saturated2							
Ni 231.604†	386.9	0.0097	mg/L	0.00018	0.0097	mg/L	0.00018	1.84%
Pb 220.353†	-57.5	-0.0046	mg/L	0.00027	-0.0046	mg/L	0.00027	5.84%
Sb 206.836†	94.7	0.0133	mg/L	0.00069	0.0133	mg/L	0.00069	5.19%
Se 196.026†	34.4	-0.0613	mg/L	0.00545	-0.0613	mg/L	0.00545	8.90%
Sn 189.927†	-532.9	-0.0619	mg/L	0.00137	-0.0619	mg/L	0.00137	2.22%
Ti 337.279†	251.8	0.0133	mg/L	0.00048	0.0133	mg/L	0.00048	3.61%
Tl 351.924†	150.3	0.0125	mg/L	0.00106	0.0125	mg/L	0.00106	8.49%
V 290.880†	10873.2	0.0489	mg/L	0.00117	0.0489	mg/L	0.00117	2.40%
Zn 206.200†	345.6	0.0054	mg/L	0.00003	0.0054	mg/L	0.00003	0.48%
Zr 343.823†	422.6	0.0009	mg/L	0.00001	0.0009	mg/L	0.00001	1.04%

Sequence No.: 38
 Sample ID: 24D1492-02
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 57
 Date Collected: 4/17/2024 2:04:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1492-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4125970.4	75.09 %		0.261			0.35%
Y radial	172120.6	89.58 %		0.873			0.97%
Ag 328.068†	-1332.3	-0.0046 mg/L		0.00041	-0.0046 mg/L	0.00041	8.83%
Al 396.153†	1888.8	0.4880 mg/L		0.00921	0.4880 mg/L	0.00921	1.89%
As 188.979†	-84.9	-0.0078 mg/L		0.00212	-0.0078 mg/L	0.00212	27.25%
B 208.889†	2079.7	0.1101 mg/L		0.00148	0.1101 mg/L	0.00148	1.34%
Ba 233.527†	48433.9	0.2860 mg/L		0.00189	0.2860 mg/L	0.00189	0.66%
Be 313.107†	164.0	0.0003 mg/L		0.00002	0.0003 mg/L	0.00002	8.60%
Ca 317.933†	5840948.3	840.2 mg/L		9.21	840.2 mg/L	9.21	1.10%
Cd 228.802†	40.6	0.0010 mg/L		0.00013	0.0010 mg/L	0.00013	12.88%
Co 228.616†	1194.5	0.0118 mg/L		0.00007	0.0118 mg/L	0.00007	0.60%
Cr 267.716†	6698.1	0.0509 mg/L		0.00025	0.0509 mg/L	0.00025	0.50%
Cu 327.393†	3139.3	0.0177 mg/L		0.00016	0.0177 mg/L	0.00016	0.89%
Fe 238.204†	521.2	0.2195 mg/L		0.00238	0.2195 mg/L	0.00238	1.08%
K 766.490†	61923.4	18.70 mg/L		0.180	18.70 mg/L	0.180	0.96%
Mg 285.213†	53369.4	5.965 mg/L		0.0779	5.965 mg/L	0.0779	1.31%
Mn 257.610†	20965.1	0.8390 mg/L		0.01231	0.8390 mg/L	0.01231	1.47%
Mo 202.031†	401.3	0.0159 mg/L		0.00030	0.0159 mg/L	0.00030	1.88%
Na 589.592†	Saturated2						
Ni 231.604†	1051.0	0.0264 mg/L		0.00028	0.0264 mg/L	0.00028	1.05%
Pb 220.353†	-98.3	-0.0079 mg/L		0.00147	-0.0079 mg/L	0.00147	18.54%
Sb 206.836†	114.9	0.0168 mg/L		0.00096	0.0168 mg/L	0.00096	5.71%
Se 196.026†	42.0	-0.0670 mg/L		0.00105	-0.0670 mg/L	0.00105	1.56%
Sn 189.927†	-559.4	-0.0650 mg/L		0.00071	-0.0650 mg/L	0.00071	1.09%
Ti 337.279†	431.3	0.0228 mg/L		0.00076	0.0228 mg/L	0.00076	3.35%
Tl 351.924†	145.8	0.0122 mg/L		0.00170	0.0122 mg/L	0.00170	13.92%
V 290.880†	5179.2	0.0233 mg/L		0.00081	0.0233 mg/L	0.00081	3.47%
Zn 206.200†	13105.6	0.1822 mg/L		0.00074	0.1822 mg/L	0.00074	0.41%
Zr 343.823†	843.6	0.0019 mg/L		0.00005	0.0019 mg/L	0.00005	2.43%

Sequence No.: 39
 Sample ID: 24D1592-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 58
 Date Collected: 4/17/2024 2:12:02 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1592-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4175043.4	75.98 %		1.010			1.33%
Y radial	172816.7	89.94 %		1.203			1.34%
Ag 328.068†	-1466.5	-0.0049 mg/L		0.00018	-0.0049 mg/L	0.00018	3.70%
Al 396.153†	482.0	0.1247 mg/L		0.00976	0.1247 mg/L	0.00976	7.82%
As 188.979†	-96.7	-0.0090 mg/L		0.00097	-0.0090 mg/L	0.00097	10.78%
B 208.889†	2930.3	0.1564 mg/L		0.00365	0.1564 mg/L	0.00365	2.33%
Ba 233.527†	42161.3	0.2490 mg/L		0.00184	0.2490 mg/L	0.00184	0.74%
Be 313.107†	92.9	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	13.12%
Ca 317.933†	6600587.7	949.4 mg/L		16.54	949.4 mg/L	16.54	1.74%
Cd 228.802†	13.8	0.0008 mg/L		0.00006	0.0008 mg/L	0.00006	7.76%
Co 228.616†	320.3	0.0032 mg/L		0.00006	0.0032 mg/L	0.00006	1.79%
Cr 267.716†	1686.4	0.0128 mg/L		0.00010	0.0128 mg/L	0.00010	0.77%
Cu 327.393†	835.2	0.0047 mg/L		0.00036	0.0047 mg/L	0.00036	7.71%
Fe 238.204†	76.1	0.0321 mg/L		0.00309	0.0321 mg/L	0.00309	9.65%
K 766.490†	80667.8	24.37 mg/L		0.266	24.37 mg/L	0.266	1.09%
Mg 285.213†	441798.6	51.13 mg/L		0.561	51.13 mg/L	0.561	1.10%

Mn 257.610†	5175.2	0.2071 mg/L	0.00309	0.2071 mg/L	0.00309	1.49%
Mo 202.031†	-37.1	-0.0015 mg/L	0.00039	-0.0015 mg/L	0.00039	26.36%
Na 589.592†	Saturated2					
Ni 231.604†	1044.7	0.0262 mg/L	0.00028	0.0262 mg/L	0.00028	1.05%
Pb 220.353†	-123.5	-0.0099 mg/L	0.00072	-0.0099 mg/L	0.00072	7.27%
Sb 206.836†	91.9	0.0138 mg/L	0.00090	0.0138 mg/L	0.00090	6.55%
Se 196.026†	49.0	-0.0836 mg/L	0.01105	-0.0836 mg/L	0.01105	13.21%
Sn 189.927†	-648.0	-0.0753 mg/L	0.00074	-0.0753 mg/L	0.00074	0.98%
Ti 337.279†	95.7	0.0050 mg/L	0.00013	0.0050 mg/L	0.00013	2.63%
Tl 351.924†	152.6	0.0128 mg/L	0.00585	0.0128 mg/L	0.00585	45.73%
V 290.880†	3500.6	0.0158 mg/L	0.00108	0.0158 mg/L	0.00108	6.86%
Zn 206.200†	2332.4	0.0325 mg/L	0.00040	0.0325 mg/L	0.00040	1.24%
Zr 343.823†	452.5	0.0010 mg/L	0.00009	0.0010 mg/L	0.00009	8.93%

Sequence No.: 40

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 5

Date Collected: 4/17/2024 2:19:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5118411.5	93.15 %	0.794			0.85%
Y radial	197362.2	102.7 %	0.94			0.92%
Ag 328.068†	705807.1	2.356 mg/L	0.0378	2.356 mg/L	0.0378	1.60%
QC value within limits for Ag 328.068		Recovery = 94.24%				
Al 396.153†	37548.2	9.455 mg/L	0.0578	9.455 mg/L	0.0578	0.61%
QC value within limits for Al 396.153		Recovery = 94.55%				
As 188.979†	16255.9	4.859 mg/L	0.0192	4.859 mg/L	0.0192	0.40%
QC value within limits for As 188.979		Recovery = 97.18%				
B 208.889†	88902.4	4.498 mg/L	0.0135	4.498 mg/L	0.0135	0.30%
QC value less than the lower limit for B 208.889		Recovery = 89.96%				
Ba 233.527†	826930.5	4.891 mg/L	0.0233	4.891 mg/L	0.0233	0.48%
QC value within limits for Ba 233.527		Recovery = 97.82%				
Be 313.107†	2077823.7	4.683 mg/L	0.0646	4.683 mg/L	0.0646	1.38%
QC value within limits for Be 313.107		Recovery = 93.67%				
Ca 317.933†	64671.2	9.302 mg/L	0.0337	9.302 mg/L	0.0337	0.36%
QC value within limits for Ca 317.933		Recovery = 93.02%				
Cd 228.802†	563075.1	4.855 mg/L	0.0249	4.855 mg/L	0.0249	0.51%
QC value within limits for Cd 228.802		Recovery = 97.11%				
Co 228.616†	493045.4	4.879 mg/L	0.0248	4.879 mg/L	0.0248	0.51%
QC value within limits for Co 228.616		Recovery = 97.58%				
Cr 267.716†	638094.0	4.883 mg/L	0.0254	4.883 mg/L	0.0254	0.52%
QC value within limits for Cr 267.716		Recovery = 97.66%				
Cu 327.393†	867266.1	4.894 mg/L	0.0089	4.894 mg/L	0.0089	0.18%
QC value within limits for Cu 327.393		Recovery = 97.87%				
Fe 238.204†	10918.1	4.622 mg/L	0.0263	4.622 mg/L	0.0263	0.57%
QC value within limits for Fe 238.204		Recovery = 92.44%				
K 766.490†	31623.7	9.552 mg/L	0.0636	9.552 mg/L	0.0636	0.67%
QC value within limits for K 766.490		Recovery = 95.52%				
Mg 285.213†	80603.2	9.355 mg/L	0.0542	9.355 mg/L	0.0542	0.58%
QC value within limits for Mg 285.213		Recovery = 93.55%				
Mn 257.610†	116369.6	4.657 mg/L	0.0247	4.657 mg/L	0.0247	0.53%
QC value within limits for Mn 257.610		Recovery = 93.14%				
Mo 202.031†	122547.1	4.867 mg/L	0.0197	4.867 mg/L	0.0197	0.40%
QC value within limits for Mo 202.031		Recovery = 97.34%				
Na 589.592†	138873.1	11.42 mg/L	0.178	11.42 mg/L	0.178	1.56%
QC value greater than the upper limit for Na 589.592		Recovery = 114.21%				
Ni 231.604†	195590.3	4.907 mg/L	0.0252	4.907 mg/L	0.0252	0.51%
QC value within limits for Ni 231.604		Recovery = 98.15%				
Pb 220.353†	61232.3	4.923 mg/L	0.0141	4.923 mg/L	0.0141	0.29%
QC value within limits for Pb 220.353		Recovery = 98.46%				
Sb 206.836†	31127.0	4.860 mg/L	0.0212	4.860 mg/L	0.0212	0.44%
QC value within limits for Sb 206.836		Recovery = 97.20%				
Se 196.026†	9903.2	4.923 mg/L	0.0208	4.923 mg/L	0.0208	0.42%
QC value within limits for Se 196.026		Recovery = 98.46%				

Sn 189.927†	42198.0	4.899 mg/L	0.0227	4.899 mg/L	0.0227	0.46%
QC value within limits for Sn 189.927 Recovery = 97.97%						
Ti 337.279†	89720.2	4.732 mg/L	0.0293	4.732 mg/L	0.0293	0.62%
QC value within limits for Ti 337.279 Recovery = 94.65%						
Tl 351.924†	29169.3	2.416 mg/L	0.0224	2.416 mg/L	0.0224	0.93%
QC value within limits for Tl 351.924 Recovery = 96.66%						
V 290.880†	1076878.1	4.846 mg/L	0.0260	4.846 mg/L	0.0260	0.54%
QC value within limits for V 290.880 Recovery = 96.92%						
Zn 206.200†	355138.1	4.949 mg/L	0.0323	4.949 mg/L	0.0323	0.65%
QC value within limits for Zn 206.200 Recovery = 98.99%						
Zr 343.823†	2191108.3	4.867 mg/L	0.0208	4.867 mg/L	0.0208	0.43%
QC Failed. Continue with analysis.						

Sequence No.: 41

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 2:25:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5294749.8	96.36 %	1.062			1.10%
Y radial	201531.7	104.9 %	0.87			0.83%
Ag 328.068†	692.7	0.0023 mg/L	0.00014	0.0023 mg/L	0.00014	5.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-10.7	-0.0028 mg/L	0.00339	-0.0028 mg/L	0.00339	120.31%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-1.2	-0.0003 mg/L	0.00121	-0.0003 mg/L	0.00121	360.10%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-1896.0	-0.1012 mg/L	0.00095	-0.1012 mg/L	0.00095	0.94%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	0.4	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	663.07%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-49.1	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	41.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	9.2	0.0013 mg/L	0.00112	0.0013 mg/L	0.00112	84.78%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	3.7	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	113.70%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	18.7	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	22.46%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-4.1	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	113.66%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	335.7	0.0019 mg/L	0.00003	0.0019 mg/L	0.00003	1.68%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	11.2	0.0047 mg/L	0.00130	0.0047 mg/L	0.00130	27.65%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	271.9	0.0821 mg/L	0.01677	0.0821 mg/L	0.01677	20.42%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	4.2	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	31.25%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	1.8	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	101.80%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	28.1	0.0011 mg/L	0.00019	0.0011 mg/L	0.00019	17.27%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	22431.1	1.845 mg/L	0.0248	1.845 mg/L	0.0248	1.35%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-11.0	-0.0003 mg/L	0.00021	-0.0003 mg/L	0.00021	75.39%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	2.3	0.0002 mg/L	0.00078	0.0002 mg/L	0.00078	430.43%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-6.4	-0.0010 mg/L	0.00064	-0.0010 mg/L	0.00064	64.51%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.6	0.0013 mg/L	0.00063	0.0013 mg/L	0.00063	49.39%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	9.4	0.0011 mg/L	0.00049	0.0011 mg/L	0.00049	44.73%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279†	-5.0	-0.0003 mg/L	0.00030	-0.0003 mg/L	0.00030	112.66%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 351.924†	51.9	0.0044 mg/L	0.00772	0.0044 mg/L	0.00772	176.94%

QC value within limits for Tl 351.924 Recovery = Not calculated

V 290.880†	551.7	0.0025 mg/L	0.00013	0.0025 mg/L	0.00013	5.36%

QC value within limits for V 290.880 Recovery = Not calculated

Zn 206.200†	-57.5	-0.0010 mg/L	0.00013	-0.0010 mg/L	0.00013	12.97%

QC value within limits for Zn 206.200 Recovery = Not calculated

Zr 343.823†	-81.2	-0.0002 mg/L	0.00010	-0.0002 mg/L	0.00010	54.47%

All analyte(s) passed QC.
User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 2:35:16 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/17/2024 2:35:17 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 2:35:39 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 42

Autosampler Location: 59

Sample ID: 24D1178-01

Date Collected: 4/17/2024 2:35:39 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: 24D1178-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4226561.1	76.92 %	0.189			0.25%
Y radial	171738.9	89.38 %	1.460			1.63%
Ag 328.068†	-1264.8	-0.0035 mg/L	0.00025	-0.0035 mg/L	0.00025	7.12%
Al 396.153†	1952.7	0.5047 mg/L	0.00594	0.5047 mg/L	0.00594	1.18%
As 188.979†	13.1	0.0215 mg/L	0.00299	0.0215 mg/L	0.00299	13.93%
B 208.889†	1623.9	0.0859 mg/L	0.00057	0.0859 mg/L	0.00057	0.67%
Ba 233.527†	231606.1	1.368 mg/L	0.0107	1.368 mg/L	0.0107	0.78%
Be 313.107†	327.4	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	16.30%
Ca 317.933†	4614681.6	663.8 mg/L	3.12	663.8 mg/L	3.12	0.47%
Cd 228.802†	32120.9	0.2825 mg/L	0.00152	0.2825 mg/L	0.00152	0.54%
Co 228.616†	17371.5	0.1712 mg/L	0.00159	0.1712 mg/L	0.00159	0.93%
Cr 267.716†	8757.1	0.0670 mg/L	0.00013	0.0670 mg/L	0.00013	0.19%
Cu 327.393†	103765.9	0.5834 mg/L	0.00280	0.5834 mg/L	0.00280	0.48%
Fe 238.204†	726.6	0.3067 mg/L	0.00194	0.3067 mg/L	0.00194	0.63%
K 766.490†	41084.6	12.41 mg/L	0.112	12.41 mg/L	0.112	0.90%
Mg 285.213†	92892.8	10.62 mg/L	0.128	10.62 mg/L	0.128	1.20%
Mn 257.610†	8709.6	0.3486 mg/L	0.00483	0.3486 mg/L	0.00483	1.39%
Mo 202.031†	358.4	0.0142 mg/L	0.00026	0.0142 mg/L	0.00026	1.80%
Na 589.592†	Saturated2					
Ni 231.604†	1203.8	0.0302 mg/L	0.00028	0.0302 mg/L	0.00028	0.92%
Pb 220.353†	12119.3	0.9725 mg/L	0.00184	0.9725 mg/L	0.00184	0.19%
Sb 206.836†	348.9	0.0538 mg/L	0.00048	0.0538 mg/L	0.00048	0.89%
Se 196.026†	44.4	-0.0484 mg/L	0.00327	-0.0484 mg/L	0.00327	6.75%
Sn 189.927†	-533.1	-0.0619 mg/L	0.00107	-0.0619 mg/L	0.00107	1.73%

Ti 337.279†	8046.6	0.4247 mg/L	0.01328	0.4247 mg/L	0.01328	3.13%
Tl 351.924†	186.5	0.0136 mg/L	0.00148	0.0136 mg/L	0.00148	10.88%
V 290.880†	43315.7	0.1951 mg/L	0.00133	0.1951 mg/L	0.00133	0.68%
Zn 206.200†	1527279.6	21.18 mg/L	0.071	21.18 mg/L	0.071	0.33%
Zr 343.823†	1750.7	0.0039 mg/L	0.00019	0.0039 mg/L	0.00019	5.02%

Sequence No.: 43

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 7

Date Collected: 4/17/2024 2:43:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5355432.9	97.47 %		0.414				0.42%
Y radial	198384.6	103.3 %		1.19				1.15%
Ag 328.068†	482.0	0.0016 mg/L		0.00011	0.0016 mg/L		0.00011	6.93%
Al 396.153†	2.3	0.0006 mg/L		0.00582	0.0006 mg/L		0.00582	963.03%
As 188.979†	-3.4	-0.0010 mg/L		0.00204	-0.0010 mg/L		0.00204	212.37%
B 208.889†	-2073.8	-0.1106 mg/L		0.00042	-0.1106 mg/L		0.00042	0.38%
Ba 233.527†	16.7	0.0001 mg/L		0.00004	0.0001 mg/L		0.00004	36.50%
Be 313.107†	-11.1	-0.0000 mg/L		0.00002	-0.0000 mg/L		0.00002	41.79%
Ca 317.933†	147.1	0.0212 mg/L		0.00303	0.0212 mg/L		0.00303	14.33%
Cd 228.802†	-1.8	0.0000 mg/L		0.00006	0.0000 mg/L		0.00006	793.49%
Co 228.616†	11.0	0.0001 mg/L		0.00007	0.0001 mg/L		0.00007	66.35%
Cr 267.716†	-16.9	-0.0001 mg/L		0.00004	-0.0001 mg/L		0.00004	34.35%
Cu 327.393†	223.4	0.0013 mg/L		0.00016	0.0013 mg/L		0.00016	12.67%
Fe 238.204†	10.4	0.0044 mg/L		0.00068	0.0044 mg/L		0.00068	15.42%
K 766.490†	468.2	0.1414 mg/L		0.02287	0.1414 mg/L		0.02287	16.17%
Mg 285.213†	26.2	0.0031 mg/L		0.00021	0.0031 mg/L		0.00021	6.95%
Mn 257.610†	6.8	0.0003 mg/L		0.00029	0.0003 mg/L		0.00029	104.93%
Mo 202.031†	1.2	0.0000 mg/L		0.00018	0.0000 mg/L		0.00018	385.59%
Na 589.592†	25795.6	2.121 mg/L		0.0786	2.121 mg/L		0.0786	3.70%
Ni 231.604†	-6.4	-0.0002 mg/L		0.00007	-0.0002 mg/L		0.00007	42.73%
Pb 220.353†	-2.4	-0.0002 mg/L		0.00019	-0.0002 mg/L		0.00019	97.97%
Sb 206.836†	1.3	0.0002 mg/L		0.00033	0.0002 mg/L		0.00033	152.49%
Se 196.026†	-1.3	-0.0007 mg/L		0.00145	-0.0007 mg/L		0.00145	217.89%
Sn 189.927†	5.8	0.0007 mg/L		0.00081	0.0007 mg/L		0.00081	119.46%
Ti 337.279†	1.6	0.0001 mg/L		0.00020	0.0001 mg/L		0.00020	244.71%
Tl 351.924†	58.9	0.0049 mg/L		0.00173	0.0049 mg/L		0.00173	35.03%
V 290.880†	539.7	0.0024 mg/L		0.00016	0.0024 mg/L		0.00016	6.56%
Zn 206.200†	75.0	0.0008 mg/L		0.00012	0.0008 mg/L		0.00012	14.11%
Zr 343.823†	-51.9	-0.0001 mg/L		0.00005	-0.0001 mg/L		0.00005	44.48%

Sequence No.: 44

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 60

Date Collected: 4/17/2024 2:48:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5420280.0	98.65 %		0.431				0.44%
Y radial	201261.5	104.7 %		1.30				1.24%
Ag 328.068†	373.1	0.0013 mg/L		0.00037	0.0013 mg/L		0.00037	29.20%
Al 396.153†	19.0	0.0049 mg/L		0.00517	0.0049 mg/L		0.00517	104.91%
As 188.979†	-6.0	-0.0017 mg/L		0.00021	-0.0017 mg/L		0.00021	12.23%
B 208.889†	-2109.7	-0.1125 mg/L		0.00056	-0.1125 mg/L		0.00056	0.50%
Ba 233.527†	9.6	0.0001 mg/L		0.00006	0.0001 mg/L		0.00006	103.90%
Be 313.107†	-18.5	-0.0001 mg/L		0.00002	-0.0001 mg/L		0.00002	39.72%
Ca 317.933†	150.0	0.0216 mg/L		0.00245	0.0216 mg/L		0.00245	11.34%
Cd 228.802†	-6.2	-0.0000 mg/L		0.00004	-0.0000 mg/L		0.00004	289.47%

Co 228.616†	18.9	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	38.18%
Cr 267.716†	-22.8	-0.0002 mg/L	0.00012	-0.0002 mg/L	0.00012	66.92%
Cu 327.393†	583.9	0.0033 mg/L	0.00007	0.0033 mg/L	0.00007	2.17%
Fe 238.204†	12.7	0.0054 mg/L	0.00138	0.0054 mg/L	0.00138	25.63%
K 766.490†	357.0	0.1078 mg/L	0.01750	0.1078 mg/L	0.01750	16.23%
Mg 285.213†	21.3	0.0025 mg/L	0.00028	0.0025 mg/L	0.00028	11.30%
Mn 257.610†	10.9	0.0004 mg/L	0.00015	0.0004 mg/L	0.00015	33.93%
Mo 202.031†	-1.1	-0.0000 mg/L	0.00008	-0.0000 mg/L	0.00008	197.69%
Na 589.592†	19268.3	1.585 mg/L	0.0215	1.585 mg/L	0.0215	1.36%
Ni 231.604†	-11.9	-0.0003 mg/L	0.00006	-0.0003 mg/L	0.00006	20.05%
Pb 220.353†	-1.2	-0.0001 mg/L	0.00071	-0.0001 mg/L	0.00071	676.32%
Sb 206.836†	4.6	0.0007 mg/L	0.00071	0.0007 mg/L	0.00071	96.15%
Se 196.026†	2.5	0.0012 mg/L	0.00196	0.0012 mg/L	0.00196	159.41%
Sn 189.927†	9.7	0.0011 mg/L	0.00024	0.0011 mg/L	0.00024	21.13%
Ti 337.279†	-2.6	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	87.39%
Tl 351.924†	35.9	0.0030 mg/L	0.00686	0.0030 mg/L	0.00686	227.18%
V 290.880†	617.5	0.0028 mg/L	0.00023	0.0028 mg/L	0.00023	8.40%
Zn 206.200†	118.3	0.0015 mg/L	0.00008	0.0015 mg/L	0.00008	5.11%
Zr 343.823†	-35.8	-0.0001 mg/L	0.00018	-0.0001 mg/L	0.00018	223.95%

Sequence No.: 45

Sample ID: B371416-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 61

Date Collected: 4/17/2024 2:54:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5294848.2	96.36 %		0.077			0.08%
Y radial	201134.9	104.7 %		0.59			0.56%
Ag 328.068†	152872.5	0.5169 mg/L		0.00063	0.5169 mg/L	0.00063	0.12%
Al 396.153†	1987.5	0.4951 mg/L		0.00798	0.4951 mg/L	0.00798	1.61%
As 188.979†	1571.4	0.4706 mg/L		0.00236	0.4706 mg/L	0.00236	0.50%
B 208.889†	15764.0	0.8166 mg/L		0.00313	0.8166 mg/L	0.00313	0.38%
Ba 233.527†	84604.7	0.5000 mg/L		0.00013	0.5000 mg/L	0.00013	0.03%
Be 313.107†	217245.1	0.4897 mg/L		0.00222	0.4897 mg/L	0.00222	0.45%
Ca 317.933†	26287.1	3.781 mg/L		0.0208	3.781 mg/L	0.0208	0.55%
Cd 228.802†	57318.8	0.4949 mg/L		0.00052	0.4949 mg/L	0.00052	0.11%
Co 228.616†	49870.7	0.4935 mg/L		0.00057	0.4935 mg/L	0.00057	0.12%
Cr 267.716†	65088.3	0.4980 mg/L		0.00130	0.4980 mg/L	0.00130	0.26%
Cu 327.393†	171861.7	0.9663 mg/L		0.00281	0.9663 mg/L	0.00281	0.29%
Fe 238.204†	8949.5	3.770 mg/L		0.0136	3.770 mg/L	0.0136	0.36%
K 766.490†	12511.0	3.779 mg/L		0.0244	3.779 mg/L	0.0244	0.65%
Mg 285.213†	32984.4	3.841 mg/L		0.0193	3.841 mg/L	0.0193	0.50%
Mn 257.610†	11741.4	0.4702 mg/L		0.00281	0.4702 mg/L	0.00281	0.60%
Mo 202.031†	12199.7	0.4845 mg/L		0.00145	0.4845 mg/L	0.00145	0.30%
Na 589.592†	55205.2	4.540 mg/L		0.0190	4.540 mg/L	0.0190	0.42%
Ni 231.604†	19826.0	0.4973 mg/L		0.00153	0.4973 mg/L	0.00153	0.31%
Pb 220.353†	6137.3	0.4923 mg/L		0.00108	0.4923 mg/L	0.00108	0.22%
Sb 206.836†	3149.7	0.4915 mg/L		0.00258	0.4915 mg/L	0.00258	0.52%
Se 196.026†	997.0	0.4947 mg/L		0.00187	0.4947 mg/L	0.00187	0.38%
Sn 189.927†	4178.4	0.4856 mg/L		0.00101	0.4856 mg/L	0.00101	0.21%
Ti 337.279†	9070.9	0.4787 mg/L		0.00088	0.4787 mg/L	0.00088	0.18%
Tl 351.924†	5662.0	0.4755 mg/L		0.00505	0.4755 mg/L	0.00505	1.06%
V 290.880†	109919.6	0.4944 mg/L		0.00083	0.4944 mg/L	0.00083	0.17%
Zn 206.200†	72075.1	0.9999 mg/L		0.00218	0.9999 mg/L	0.00218	0.22%
Zr 343.823†	704.5	0.0015 mg/L		0.00027	0.0015 mg/L	0.00027	18.46%

Sequence No.: 46

Sample ID: B371416-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 62

Date Collected: 4/17/2024 2:59:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5288298.2	96.25	%	0.691				0.72%
Y radial	202240.9	105.3	%	0.78				0.74%
Ag 328.068†	151688.4	0.5128	mg/L	0.00551	0.5128	mg/L	0.00551	1.07%
Al 396.153†	1920.4	0.4778	mg/L	0.00475	0.4778	mg/L	0.00475	0.99%
As 188.979†	1556.7	0.4662	mg/L	0.00430	0.4662	mg/L	0.00430	0.92%
B 208.889†	15683.3	0.8124	mg/L	0.01071	0.8124	mg/L	0.01071	1.32%
Ba 233.527†	83757.4	0.4950	mg/L	0.00692	0.4950	mg/L	0.00692	1.40%
Be 313.107†	214769.8	0.4841	mg/L	0.00592	0.4841	mg/L	0.00592	1.22%
Ca 317.933†	25844.2	3.717	mg/L	0.0130	3.717	mg/L	0.0130	0.35%
Cd 228.802†	56849.6	0.4908	mg/L	0.00568	0.4908	mg/L	0.00568	1.16%
Co 228.616†	49330.9	0.4881	mg/L	0.00733	0.4881	mg/L	0.00733	1.50%
Cr 267.716†	64464.4	0.4932	mg/L	0.00644	0.4932	mg/L	0.00644	1.31%
Cu 327.393†	170444.5	0.9583	mg/L	0.01206	0.9583	mg/L	0.01206	1.26%
Fe 238.204†	8797.0	3.706	mg/L	0.0191	3.706	mg/L	0.0191	0.51%
K 766.490†	12573.6	3.798	mg/L	0.0116	3.798	mg/L	0.0116	0.30%
Mg 285.213†	32390.7	3.771	mg/L	0.0040	3.771	mg/L	0.0040	0.11%
Mn 257.610†	11639.7	0.4661	mg/L	0.00213	0.4661	mg/L	0.00213	0.46%
Mo 202.031†	12155.6	0.4828	mg/L	0.00350	0.4828	mg/L	0.00350	0.73%
Na 589.592†	56774.9	4.669	mg/L	0.0040	4.669	mg/L	0.0040	0.09%
Ni 231.604†	19642.2	0.4927	mg/L	0.00677	0.4927	mg/L	0.00677	1.37%
Pb 220.353†	6112.7	0.4903	mg/L	0.00359	0.4903	mg/L	0.00359	0.73%
Sb 206.836†	3128.1	0.4882	mg/L	0.00377	0.4882	mg/L	0.00377	0.77%
Se 196.026†	998.2	0.4953	mg/L	0.00502	0.4953	mg/L	0.00502	1.01%
Sn 189.927†	4152.7	0.4826	mg/L	0.00413	0.4826	mg/L	0.00413	0.85%
Ti 337.279†	9003.1	0.4751	mg/L	0.00045	0.4751	mg/L	0.00045	0.09%
Tl 351.924†	5657.6	0.4752	mg/L	0.00736	0.4752	mg/L	0.00736	1.55%
V 290.880†	108730.8	0.4890	mg/L	0.00633	0.4890	mg/L	0.00633	1.29%
Zn 206.200†	71474.0	0.9915	mg/L	0.01506	0.9915	mg/L	0.01506	1.52%
Zr 343.823†	376.5	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	4.50%

Sequence No.: 47

Sample ID: B371416-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 63

Date Collected: 4/17/2024 3:03:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5179409.7	94.26	%	0.687				0.73%
Y radial	200398.3	104.3	%	0.49				0.47%
Ag 328.068†	150715.7	0.5096	mg/L	0.00586	0.5096	mg/L	0.00586	1.15%
Al 396.153†	2173.0	0.5431	mg/L	0.00361	0.5431	mg/L	0.00361	0.66%
As 188.979†	1581.5	0.4748	mg/L	0.00273	0.4748	mg/L	0.00273	0.57%
B 208.889†	16481.4	0.8548	mg/L	0.01798	0.8548	mg/L	0.01798	2.10%
Ba 233.527†	86115.3	0.5086	mg/L	0.00638	0.5086	mg/L	0.00638	1.25%
Be 313.107†	216303.6	0.4876	mg/L	0.00336	0.4876	mg/L	0.00336	0.69%
Ca 317.933†	210577.5	30.29	mg/L	0.178	30.29	mg/L	0.178	0.59%
Cd 228.802†	57309.7	0.4947	mg/L	0.00610	0.4947	mg/L	0.00610	1.23%
Co 228.616†	48910.0	0.4840	mg/L	0.00580	0.4840	mg/L	0.00580	1.20%
Cr 267.716†	64539.9	0.4937	mg/L	0.00442	0.4937	mg/L	0.00442	0.89%
Cu 327.393†	176322.9	0.9914	mg/L	0.01255	0.9914	mg/L	0.01255	1.27%
Fe 238.204†	13967.5	5.882	mg/L	0.0244	5.882	mg/L	0.0244	0.41%
K 766.490†	15421.4	4.658	mg/L	0.0241	4.658	mg/L	0.0241	0.52%
Mg 285.213†	75013.4	8.725	mg/L	0.0122	8.725	mg/L	0.0122	0.14%
Mn 257.610†	16205.4	0.6490	mg/L	0.00230	0.6490	mg/L	0.00230	0.35%
Mo 202.031†	12265.9	0.4872	mg/L	0.00377	0.4872	mg/L	0.00377	0.77%
Na 589.592†	721232.7	59.31	mg/L	0.596	59.31	mg/L	0.596	1.00%
Ni 231.604†	19348.1	0.4853	mg/L	0.00467	0.4853	mg/L	0.00467	0.96%
Pb 220.353†	6016.6	0.4824	mg/L	0.00260	0.4824	mg/L	0.00260	0.54%
Sb 206.836†	3170.6	0.4948	mg/L	0.00482	0.4948	mg/L	0.00482	0.97%
Se 196.026†	1014.9	0.4999	mg/L	0.00322	0.4999	mg/L	0.00322	0.64%
Sn 189.927†	3952.0	0.4592	mg/L	0.00337	0.4592	mg/L	0.00337	0.73%

Ti 337.279†	9112.2	0.4809 mg/L	0.00163	0.4809 mg/L	0.00163	0.34%
Tl 351.924†	5844.9	0.4923 mg/L	0.00942	0.4923 mg/L	0.00942	1.91%
V 290.880†	110054.6	0.4948 mg/L	0.00694	0.4948 mg/L	0.00694	1.40%
Zn 206.200†	77544.3	1.071 mg/L	0.0081	1.071 mg/L	0.0081	0.76%
Zr 343.823†	488.3	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.72%

Sequence No.: 48

Sample ID: B371416-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 64

Date Collected: 4/17/2024 3:08:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5267913.8	95.87	%	1.733				1.81%
Y radial	200171.2	104.2	%	2.28				2.19%
Ag 328.068†	148426.3	0.5019	mg/L	0.01586	0.5019	mg/L	0.01586	3.16%
Al 396.153†	2206.6	0.5520	mg/L	0.00185	0.5520	mg/L	0.00185	0.33%
As 188.979†	1548.1	0.4649	mg/L	0.00842	0.4649	mg/L	0.00842	1.81%
B 208.889†	16186.4	0.8394	mg/L	0.03270	0.8394	mg/L	0.03270	3.90%
Ba 233.527†	84857.6	0.5012	mg/L	0.01501	0.5012	mg/L	0.01501	2.99%
Be 313.107†	212432.2	0.4789	mg/L	0.00991	0.4789	mg/L	0.00991	2.07%
Ca 317.933†	208260.4	29.96	mg/L	0.642	29.96	mg/L	0.642	2.14%
Cd 228.802†	56464.4	0.4875	mg/L	0.01526	0.4875	mg/L	0.01526	3.13%
Co 228.616†	48220.1	0.4771	mg/L	0.01412	0.4771	mg/L	0.01412	2.96%
Cr 267.716†	63592.8	0.4865	mg/L	0.01532	0.4865	mg/L	0.01532	3.15%
Cu 327.393†	173659.8	0.9764	mg/L	0.03656	0.9764	mg/L	0.03656	3.74%
Fe 238.204†	14134.8	5.953	mg/L	0.0744	5.953	mg/L	0.0744	1.25%
K 766.490†	15106.2	4.563	mg/L	0.0610	4.563	mg/L	0.0610	1.34%
Mg 285.213†	75028.2	8.727	mg/L	0.0860	8.727	mg/L	0.0860	0.99%
Mn 257.610†	16347.0	0.6546	mg/L	0.00800	0.6546	mg/L	0.00800	1.22%
Mo 202.031†	12091.3	0.4802	mg/L	0.00793	0.4802	mg/L	0.00793	1.65%
Na 589.592†	679369.5	55.87	mg/L	1.089	55.87	mg/L	1.089	1.95%
Ni 231.604†	19084.5	0.4787	mg/L	0.01391	0.4787	mg/L	0.01391	2.91%
Pb 220.353†	5916.5	0.4744	mg/L	0.00847	0.4744	mg/L	0.00847	1.79%
Sb 206.836†	3112.8	0.4858	mg/L	0.00869	0.4858	mg/L	0.00869	1.79%
Se 196.026†	997.5	0.4913	mg/L	0.00983	0.4913	mg/L	0.00983	2.00%
Sn 189.927†	3898.5	0.4530	mg/L	0.00785	0.4530	mg/L	0.00785	1.73%
Ti 337.279†	9078.7	0.4791	mg/L	0.00440	0.4791	mg/L	0.00440	0.92%
Tl 351.924†	5782.3	0.4871	mg/L	0.02256	0.4871	mg/L	0.02256	4.63%
V 290.880†	108461.2	0.4877	mg/L	0.01730	0.4877	mg/L	0.01730	3.55%
Zn 206.200†	76140.5	1.052	mg/L	0.0261	1.052	mg/L	0.0261	2.48%
Zr 343.823†	401.2	0.0007	mg/L	0.00006	0.0007	mg/L	0.00006	8.44%

Sequence No.: 49

Sample ID: B371416-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 65

Date Collected: 4/17/2024 3:12:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-PS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5165341.8	94.01	%	0.709				0.75%
Y radial	196576.0	102.3	%	1.15				1.12%
Ag 328.068†	561880.2	1.900	mg/L	0.0449	1.900	mg/L	0.0449	2.36%
Al 396.153†	8067.3	2.011	mg/L	0.0115	2.011	mg/L	0.0115	0.57%
As 188.979†	6251.8	1.874	mg/L	0.0135	1.874	mg/L	0.0135	0.72%
B 208.889†	70008.0	3.638	mg/L	0.0247	3.638	mg/L	0.0247	0.68%
Ba 233.527†	325510.9	1.923	mg/L	0.0149	1.923	mg/L	0.0149	0.78%
Be 313.107†	861696.5	1.943	mg/L	0.0107	1.943	mg/L	0.0107	0.55%
Ca 317.933†	283953.8	40.84	mg/L	0.231	40.84	mg/L	0.231	0.57%
Cd 228.802†	223066.7	1.925	mg/L	0.0129	1.925	mg/L	0.0129	0.67%

Co 228.616†	189361.3	1.874 mg/L	0.0155	1.874 mg/L	0.0155	0.83%
Cr 267.716†	249270.4	1.907 mg/L	0.0172	1.907 mg/L	0.0172	0.90%
Cu 327.393†	684447.2	3.848 mg/L	0.0509	3.848 mg/L	0.0509	1.32%
Fe 238.204†	39969.4	16.84 mg/L	0.107	16.84 mg/L	0.107	0.63%
K 766.490†	54866.6	16.57 mg/L	0.083	16.57 mg/L	0.083	0.50%
Mg 285.213†	171366.5	19.94 mg/L	0.068	19.94 mg/L	0.068	0.34%
Mn 257.610†	50614.4	2.027 mg/L	0.0106	2.027 mg/L	0.0106	0.52%
Mo 202.031†	48426.3	1.923 mg/L	0.0161	1.923 mg/L	0.0161	0.84%
Na 589.592†	892953.8	73.44 mg/L	0.628	73.44 mg/L	0.628	0.86%
Ni 231.604†	74785.9	1.876 mg/L	0.0191	1.876 mg/L	0.0191	1.02%
Pb 220.353†	23359.5	1.873 mg/L	0.0162	1.873 mg/L	0.0162	0.86%
Sb 206.836†	12399.8	1.936 mg/L	0.0164	1.936 mg/L	0.0164	0.85%
Se 196.026†	3951.4	1.957 mg/L	0.0176	1.957 mg/L	0.0176	0.90%
Sn 189.927†	16126.1	1.874 mg/L	0.0156	1.874 mg/L	0.0156	0.83%
Ti 337.279†	36473.5	1.925 mg/L	0.0041	1.925 mg/L	0.0041	0.21%
Tl 351.924†	23886.4	2.008 mg/L	0.0169	2.008 mg/L	0.0169	0.84%
V 290.880†	427991.4	1.925 mg/L	0.0138	1.925 mg/L	0.0138	0.72%
Zn 206.200†	279141.0	3.868 mg/L	0.0279	3.868 mg/L	0.0279	0.72%
Zr 343.823†	947.4	0.0017 mg/L	0.00034	0.0017 mg/L	0.00034	19.98%

Sequence No.: 50

Sample ID: B371416-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 66

Date Collected: 4/17/2024 3:17:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5421537.2	98.67 %	1.071			1.09%
Y radial	198463.9	103.3 %	0.79			0.77%
Ag 328.068†	863.6	0.0029 mg/L	0.00026	0.0029 mg/L	0.00026	8.77%
Al 396.153†	42.5	0.0109 mg/L	0.00147	0.0109 mg/L	0.00147	13.46%
As 188.979†	-5.1	-0.0013 mg/L	0.00024	-0.0013 mg/L	0.00024	19.21%
B 208.889†	-1786.4	-0.0954 mg/L	0.00085	-0.0954 mg/L	0.00085	0.89%
Ba 233.527†	643.2	0.0037 mg/L	0.00008	0.0037 mg/L	0.00008	2.20%
Be 313.107†	25.6	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	65.30%
Ca 317.933†	36249.6	5.214 mg/L	0.0202	5.214 mg/L	0.0202	0.39%
Cd 228.802†	13.7	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	43.84%
Co 228.616†	22.9	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	47.89%
Cr 267.716†	94.9	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	14.22%
Cu 327.393†	-424.8	-0.0024 mg/L	0.00026	-0.0024 mg/L	0.00026	10.83%
Fe 238.204†	1011.7	0.4259 mg/L	0.00476	0.4259 mg/L	0.00476	1.12%
K 766.490†	865.1	0.2613 mg/L	0.00899	0.2613 mg/L	0.00899	3.44%
Mg 285.213†	8319.9	0.9670 mg/L	0.00905	0.9670 mg/L	0.00905	0.94%
Mn 257.610†	919.1	0.0368 mg/L	0.00026	0.0368 mg/L	0.00026	0.70%
Mo 202.031†	41.6	0.0017 mg/L	0.00020	0.0017 mg/L	0.00020	12.07%
Na 589.592†	145461.0	11.96 mg/L	0.085	11.96 mg/L	0.085	0.71%
Ni 231.604†	4.6	0.0001 mg/L	0.00019	0.0001 mg/L	0.00019	167.12%
Pb 220.353†	8.5	0.0007 mg/L	0.00075	0.0007 mg/L	0.00075	111.64%
Sb 206.836†	7.4	0.0012 mg/L	0.00048	0.0012 mg/L	0.00048	41.72%
Se 196.026†	3.1	0.0008 mg/L	0.00202	0.0008 mg/L	0.00202	240.59%
Sn 189.927†	-53.7	-0.0062 mg/L	0.00039	-0.0062 mg/L	0.00039	6.19%
Ti 337.279†	7.0	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	59.19%
Tl 351.924†	80.9	0.0071 mg/L	0.00649	0.0071 mg/L	0.00649	91.65%
V 290.880†	631.0	0.0028 mg/L	0.00063	0.0028 mg/L	0.00063	22.44%
Zn 206.200†	1117.5	0.0144 mg/L	0.00014	0.0144 mg/L	0.00014	0.94%
Zr 343.823†	-41.9	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	168.06%

Sequence No.: 51

Sample ID: 24D0735-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 67

Date Collected: 4/17/2024 3:23:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-04

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
Y axial	5171161.0	94.11	%	0.557				0.59%
Y radial	200434.6	104.3	%	2.33				2.23%
Ag 328.068†	260.0	0.0009	mg/L	0.00018	0.0009	mg/L	0.00018	19.79%
Al 396.153†	191.1	0.0495	mg/L	0.00182	0.0495	mg/L	0.00182	3.67%
As 188.979†	-22.8	-0.0056	mg/L	0.00067	-0.0056	mg/L	0.00067	11.95%
B 208.889†	-1601.9	-0.0856	mg/L	0.00072	-0.0856	mg/L	0.00072	0.85%
Ba 233.527†	3382.8	0.0197	mg/L	0.00019	0.0197	mg/L	0.00019	0.98%
Be 313.107†	-11.0	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	68.21%
Ca 317.933†	183417.7	26.38	mg/L	0.295	26.38	mg/L	0.295	1.12%
Cd 228.802†	113.2	0.0012	mg/L	0.00004	0.0012	mg/L	0.00004	3.78%
Co 228.616†	66.1	0.0007	mg/L	0.00011	0.0007	mg/L	0.00011	16.88%
Cr 267.716†	615.5	0.0046	mg/L	0.00006	0.0046	mg/L	0.00006	1.33%
Cu 327.393†	-36.5	-0.0002	mg/L	0.00013	-0.0002	mg/L	0.00013	61.45%
Fe 238.204†	5099.4	2.147	mg/L	0.0370	2.147	mg/L	0.0370	1.72%
K 766.490†	2841.5	0.8583	mg/L	0.01908	0.8583	mg/L	0.01908	2.22%
Mg 285.213†	42834.6	4.979	mg/L	0.0825	4.979	mg/L	0.0825	1.66%
Mn 257.610†	4629.9	0.1854	mg/L	0.00372	0.1854	mg/L	0.00372	2.00%
Mo 202.031†	55.2	0.0022	mg/L	0.00030	0.0022	mg/L	0.00030	13.91%
Na 589.592†	666830.2	54.84	mg/L	0.167	54.84	mg/L	0.167	0.31%
Ni 231.604†	69.0	0.0017	mg/L	0.00028	0.0017	mg/L	0.00028	16.05%
Pb 220.353†	18.2	0.0014	mg/L	0.00079	0.0014	mg/L	0.00079	56.48%
Sb 206.836†	19.5	0.0030	mg/L	0.00059	0.0030	mg/L	0.00059	20.04%
Se 196.026†	7.6	0.0001	mg/L	0.00046	0.0001	mg/L	0.00046	450.54%
Sn 189.927†	-209.6	-0.0244	mg/L	0.00031	-0.0244	mg/L	0.00031	1.26%
Ti 337.279†	16.7	0.0009	mg/L	0.00027	0.0009	mg/L	0.00027	30.26%
Tl 351.924†	-6.9	0.0008	mg/L	0.00845	0.0008	mg/L	0.00845	>999.9%
V 290.880†	1123.8	0.0049	mg/L	0.00064	0.0049	mg/L	0.00064	13.13%
Zn 206.200†	6023.4	0.0787	mg/L	0.00064	0.0787	mg/L	0.00064	0.82%
Zr 343.823†	176.5	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	28.29%

Sequence No.: 52

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 3:28:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

SEE RERUN- JLC 04/18/24

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
Y axial	5251626.8	95.58	%	0.392				0.41%
Y radial	201625.0	104.9	%	1.88				1.79%
Ag 328.068†	674152.3	2.249	mg/L	0.0148	2.249	mg/L	0.0148	0.66%
QC value	less than the lower limit for Ag 328.068			Recovery = 89.97%				
Al 396.153†	37476.9	9.438	mg/L	0.1484	9.438	mg/L	0.1484	1.57%
QC value	within limits for Al 396.153			Recovery = 94.38%				
As 188.979†	15974.5	4.775	mg/L	0.0333	4.775	mg/L	0.0333	0.70%
QC value	within limits for As 188.979			Recovery = 95.50%				
B 208.889†	86606.0	4.377	mg/L	0.0225	4.377	mg/L	0.0225	0.51%
QC value	less than the lower limit for B 208.889			Recovery = 87.55%				
Ba 233.527†	817593.3	4.836	mg/L	0.0247	4.836	mg/L	0.0247	0.51%
QC value	within limits for Ba 233.527			Recovery = 96.72%				
Be 313.107†	2031994.2	4.580	mg/L	0.0885	4.580	mg/L	0.0885	1.93%
QC value	within limits for Be 313.107			Recovery = 91.60%				
Ca 317.933†	63889.3	9.190	mg/L	0.1581	9.190	mg/L	0.1581	1.72%
QC value	within limits for Ca 317.933			Recovery = 91.90%				
Cd 228.802†	552447.9	4.764	mg/L	0.0236	4.764	mg/L	0.0236	0.49%
QC value	within limits for Cd 228.802			Recovery = 95.27%				
Co 228.616†	486166.7	4.811	mg/L	0.0235	4.811	mg/L	0.0235	0.49%
QC value	within limits for Co 228.616			Recovery = 96.22%				
Cr 267.716†	630752.6	4.827	mg/L	0.0208	4.827	mg/L	0.0208	0.43%
QC value	within limits for Cr 267.716			Recovery = 96.54%				
Cu 327.393†	849674.8	4.795	mg/L	0.0185	4.795	mg/L	0.0185	0.39%
QC value	within limits for Cu 327.393			Recovery = 95.89%				

Fe 238.204†	10937.6	4.630 mg/L	0.0734	4.630 mg/L	0.0734	1.59%
QC value within limits for Fe 238.204 Recovery = 92.60%						
K 766.490†	30340.6	9.165 mg/L	0.1485	9.165 mg/L	0.1485	1.62%
QC value within limits for K 766.490 Recovery = 91.65%						
Mg 285.213†	79718.5	9.252 mg/L	0.1450	9.252 mg/L	0.1450	1.57%
QC value within limits for Mg 285.213 Recovery = 92.52%						
Mn 257.610†	115521.2	4.623 mg/L	0.0765	4.623 mg/L	0.0765	1.65%
QC value within limits for Mn 257.610 Recovery = 92.47%						
Mo 202.031†	121672.7	4.832 mg/L	0.0181	4.832 mg/L	0.0181	0.37%
QC value within limits for Mo 202.031 Recovery = 96.65%						
Na 589.592†	106838.2	8.786 mg/L	0.2036	8.786 mg/L	0.2036	2.32%
QC value less than the lower limit for Na 589.592 Recovery = 87.86%						
Ni 231.604†	192668.1	4.834 mg/L	0.0216	4.834 mg/L	0.0216	0.45%
QC value within limits for Ni 231.604 Recovery = 96.68%						
Pb 220.353†	60448.6	4.860 mg/L	0.0510	4.860 mg/L	0.0510	1.05%
QC value within limits for Pb 220.353 Recovery = 97.20%						
Sb 206.836†	30715.3	4.796 mg/L	0.0586	4.796 mg/L	0.0586	1.22%
QC value within limits for Sb 206.836 Recovery = 95.91%						
Se 196.026†	9656.4	4.801 mg/L	0.0401	4.801 mg/L	0.0401	0.83%
QC value within limits for Se 196.026 Recovery = 96.01%						
Sn 189.927†	41808.1	4.853 mg/L	0.0520	4.853 mg/L	0.0520	1.07%
QC value within limits for Sn 189.927 Recovery = 97.07%						
Ti 337.279†	88777.2	4.683 mg/L	0.0731	4.683 mg/L	0.0731	1.56%
QC value within limits for Ti 337.279 Recovery = 93.65%						
Tl 351.924†	28850.9	2.390 mg/L	0.0146	2.390 mg/L	0.0146	0.61%
QC value within limits for Tl 351.924 Recovery = 95.60%						
V 290.880†	1061053.7	4.775 mg/L	0.0204	4.775 mg/L	0.0204	0.43%
QC value within limits for V 290.880 Recovery = 95.49%						
Zn 206.200†	347988.4	4.851 mg/L	0.0251	4.851 mg/L	0.0251	0.52%
QC value within limits for Zn 206.200 Recovery = 97.01%						
Zr 343.823†	2176923.4	4.835 mg/L	0.0223	4.835 mg/L	0.0223	0.46%
QC Failed. Continue with analysis.						

=====SEE RERUN- JLC 04/18/24=====

Sequence No.: 53

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 3:34:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5314175.6	96.72 %	0.420			0.43%
Y radial	199963.3	104.1 %	1.54			1.48%
Ag 328.068†	895.2	0.0030 mg/L	0.00034	0.0030 mg/L	0.00034	11.16%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-3.2	-0.0009 mg/L	0.00548	-0.0009 mg/L	0.00548	628.09%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-10.9	-0.0032 mg/L	0.00050	-0.0032 mg/L	0.00050	15.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-1932.9	-0.1032 mg/L	0.00060	-0.1032 mg/L	0.00060	0.59%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	1.0	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	336.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	4.4	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	524.42%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	0.6	0.0001 mg/L	0.00287	0.0001 mg/L	0.00287	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	0.9	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	36.51%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	12.3	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	53.83%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.4	-0.0000 mg/L	0.00030	-0.0000 mg/L	0.00030	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-691.4	-0.0039 mg/L	0.00041	-0.0039 mg/L	0.00041	10.66%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	4.1	0.0017 mg/L	0.00176	0.0017 mg/L	0.00176	101.71%

QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† 200.2 0.0605 mg/L 0.01844 0.0605 mg/L 0.01844 30.50%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 6.4 0.0008 mg/L 0.00017 0.0008 mg/L 0.00017 22.46%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 0.4 0.0000 mg/L 0.00017 0.0000 mg/L 0.00017 >999.9%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 29.0 0.0012 mg/L 0.00001 0.0012 mg/L 0.00001 0.49%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 4615.6 0.3796 mg/L 0.00572 0.3796 mg/L 0.00572 1.51%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† -2.2 -0.0001 mg/L 0.00011 -0.0001 mg/L 0.00011 203.83%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 8.3 0.0007 mg/L 0.00042 0.0007 mg/L 0.00042 61.67%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 0.8 0.0001 mg/L 0.00055 0.0001 mg/L 0.00055 409.36%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 2.4 0.0012 mg/L 0.00214 0.0012 mg/L 0.00214 180.11%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 5.5 0.0006 mg/L 0.00014 0.0006 mg/L 0.00014 22.43%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 2.3 0.0001 mg/L 0.00050 0.0001 mg/L 0.00050 407.34%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 12.1 0.0010 mg/L 0.00551 0.0010 mg/L 0.00551 547.82%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 772.7 0.0035 mg/L 0.00042 0.0035 mg/L 0.00042 12.21%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -51.4 -0.0008 mg/L 0.00005 -0.0008 mg/L 0.00005 6.41%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -54.3 -0.0001 mg/L 0.00020 -0.0001 mg/L 0.00020 169.65%
 All analyte(s) passed QC.

===== SEE RERUN- JLC 04/18/24 =====

Sequence No.: 54

Sample ID: 24D0735-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 68

Date Collected: 4/17/2024 3:39:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5280473.1	96.10 %	%	0.311			0.32%
Y radial	200858.1	104.5 %	%	0.50			0.48%
Ag 328.068†	323.9	0.0009 mg/L	mg/L	0.00015	0.0009 mg/L	0.00015	16.98%
Al 396.153†	52.0	0.0136 mg/L	mg/L	0.00100	0.0136 mg/L	0.00100	7.32%
As 188.979†	-19.9	-0.0043 mg/L	mg/L	0.00080	-0.0043 mg/L	0.00080	18.36%
B 208.889†	-943.8	-0.0504 mg/L	mg/L	0.00079	-0.0504 mg/L	0.00079	1.57%
Ba 233.527†	5882.6	0.0343 mg/L	mg/L	0.00016	0.0343 mg/L	0.00016	0.47%
Be 313.107†	-32.7	-0.0001 mg/L	mg/L	0.00002	-0.0001 mg/L	0.00002	24.21%
Ca 317.933†	165938.5	23.87 mg/L	mg/L	0.079	23.87 mg/L	0.079	0.33%
Cd 228.802†	2.7	0.0002 mg/L	mg/L	0.00001	0.0002 mg/L	0.00001	3.94%
Co 228.616†	704.7	0.0070 mg/L	mg/L	0.00011	0.0070 mg/L	0.00011	1.59%
Cr 267.716†	150.3	0.0006 mg/L	mg/L	0.00001	0.0006 mg/L	0.00001	1.73%
Cu 327.393†	-469.5	-0.0026 mg/L	mg/L	0.00038	-0.0026 mg/L	0.00038	14.39%
Fe 238.204†	8733.8	3.677 mg/L	mg/L	0.0163	3.677 mg/L	0.0163	0.44%
K 766.490†	8213.4	2.481 mg/L	mg/L	0.0268	2.481 mg/L	0.0268	1.08%
Mg 285.213†	34712.5	4.035 mg/L	mg/L	0.0193	4.035 mg/L	0.0193	0.48%
Mn 257.610†	32822.1	1.314 mg/L	mg/L	0.0063	1.314 mg/L	0.0063	0.48%
Mo 202.031†	16.1	0.0006 mg/L	mg/L	0.00011	0.0006 mg/L	0.00011	17.63%
Na 589.592†	160645.3	13.21 mg/L	mg/L	0.043	13.21 mg/L	0.043	0.32%
Ni 231.604†	59.3	0.0015 mg/L	mg/L	0.00012	0.0015 mg/L	0.00012	7.75%
Pb 220.353†	23.0	0.0016 mg/L	mg/L	0.00047	0.0016 mg/L	0.00047	29.10%
Sb 206.836†	17.0	0.0027 mg/L	mg/L	0.00080	0.0027 mg/L	0.00080	29.48%
Se 196.026†	6.6	-0.0002 mg/L	mg/L	0.00369	-0.0002 mg/L	0.00369	>999.9%
Sn 189.927†	-193.6	-0.0225 mg/L	mg/L	0.00070	-0.0225 mg/L	0.00070	3.11%
Ti 337.279†	20.3	0.0011 mg/L	mg/L	0.00027	0.0011 mg/L	0.00027	25.10%
Tl 351.924†	-49.4	-0.0018 mg/L	mg/L	0.00375	-0.0018 mg/L	0.00375	209.76%

V 290.880†	770.8	0.0032 mg/L	0.00037	0.0032 mg/L	0.00037	11.51%
Zn 206.200†	104.8	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	111.77%
Zr 343.823†	130.8	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	8.73%

Sequence No.: 55
Sample ID: 24D0735-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 69
Date Collected: 4/17/2024 3:45:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

SEE RERUN- JLC 04/18/24

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5304953.5	96.55 %		0.115			0.12%
Y radial	199125.2	103.6 %		0.96			0.93%
Ag 328.068†	321.2	0.0011 mg/L		0.00020	0.0011 mg/L	0.00020	18.38%
Al 396.153†	166.8	0.0431 mg/L		0.00194	0.0431 mg/L	0.00194	4.51%
As 188.979†	-16.9	-0.0049 mg/L		0.00201	-0.0049 mg/L	0.00201	41.12%
B 208.889†	-1465.5	-0.0782 mg/L		0.00015	-0.0782 mg/L	0.00015	0.20%
Ba 233.527†	5555.6	0.0328 mg/L		0.00010	0.0328 mg/L	0.00010	0.32%
Be 313.107†	-33.4	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	12.28%
Ca 317.933†	61876.6	8.900 mg/L		0.0334	8.900 mg/L	0.0334	0.38%
Cd 228.802†	85.7	0.0009 mg/L		0.00009	0.0009 mg/L	0.00009	10.17%
Co 228.616†	36.1	0.0004 mg/L		0.00005	0.0004 mg/L	0.00005	15.00%
Cr 267.716†	2367.7	0.0181 mg/L		0.00004	0.0181 mg/L	0.00004	0.19%
Cu 327.393†	-290.1	-0.0016 mg/L		0.00022	-0.0016 mg/L	0.00022	13.81%
Fe 238.204†	266.6	0.1123 mg/L		0.00077	0.1123 mg/L	0.00077	0.68%
K 766.490†	4884.7	1.475 mg/L		0.0139	1.475 mg/L	0.0139	0.94%
Mg 285.213†	12574.0	1.461 mg/L		0.0018	1.461 mg/L	0.0018	0.12%
Mn 257.610†	514.8	0.0206 mg/L		0.00008	0.0206 mg/L	0.00008	0.40%
Mo 202.031†	13.3	0.0005 mg/L		0.00029	0.0005 mg/L	0.00029	54.59%
Na 589.592†	135862.1	11.17 mg/L		0.038	11.17 mg/L	0.038	0.34%
Ni 231.604†	23.1	0.0006 mg/L		0.00012	0.0006 mg/L	0.00012	20.61%
Pb 220.353†	5.7	0.0005 mg/L		0.00016	0.0005 mg/L	0.00016	33.16%
Sb 206.836†	11.8	0.0015 mg/L		0.00072	0.0015 mg/L	0.00072	49.56%
Se 196.026†	5.0	0.0013 mg/L		0.00188	0.0013 mg/L	0.00188	149.91%
Sn 189.927†	-90.2	-0.0105 mg/L		0.00080	-0.0105 mg/L	0.00080	7.64%
Ti 337.279†	32.9	0.0017 mg/L		0.00022	0.0017 mg/L	0.00022	12.48%
Tl 351.924†	78.1	0.0066 mg/L		0.00414	0.0066 mg/L	0.00414	62.47%
V 290.880†	583.0	0.0026 mg/L		0.00013	0.0026 mg/L	0.00013	4.79%
Zn 206.200†	218.9	0.0022 mg/L		0.00005	0.0022 mg/L	0.00005	2.32%
Zr 343.823†	1067.3	0.0024 mg/L		0.00404	0.0024 mg/L	0.00404	170.48%

Sequence No.: 56
Sample ID: 24D0735-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 70
Date Collected: 4/17/2024 3:51:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5206067.6	94.75 %		0.242			0.26%
Y radial	197766.2	102.9 %		0.53			0.52%
Ag 328.068†	106.2	0.0004 mg/L		0.00017	0.0004 mg/L	0.00017	39.68%
Al 396.153†	3620.4	0.9368 mg/L		0.01065	0.9368 mg/L	0.01065	1.14%
As 188.979†	-22.6	-0.0041 mg/L		0.00125	-0.0041 mg/L	0.00125	30.80%
B 208.889†	-1512.5	-0.0808 mg/L		0.00061	-0.0808 mg/L	0.00061	0.76%
Ba 233.527†	8776.6	0.0511 mg/L		0.00051	0.0511 mg/L	0.00051	1.00%
Be 313.107†	12.6	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	121.45%
Ca 317.933†	218787.5	31.47 mg/L		0.043	31.47 mg/L	0.043	0.14%
Cd 228.802†	60562.7	0.5320 mg/L		0.00541	0.5320 mg/L	0.00541	1.02%
Co 228.616†	648.8	0.0063 mg/L		0.00009	0.0063 mg/L	0.00009	1.49%
Cr 267.716†	524.9	0.0041 mg/L		0.00002	0.0041 mg/L	0.00002	0.47%

Cu 327.393†	6672.1	0.0375 mg/L	0.00043	0.0375 mg/L	0.00043	1.14%
Fe 238.204†	12737.6	5.362 mg/L	0.0333	5.362 mg/L	0.0333	0.62%
K 766.490†	11471.5	3.465 mg/L	0.0285	3.465 mg/L	0.0285	0.82%
Mg 285.213†	46608.9	5.419 mg/L	0.0123	5.419 mg/L	0.0123	0.23%
Mn 257.610†	7592.2	0.3042 mg/L	0.00205	0.3042 mg/L	0.00205	0.68%
Mo 202.031†	34.9	0.0014 mg/L	0.00012	0.0014 mg/L	0.00012	8.74%
Na 589.592†	638050.1	52.47 mg/L	0.266	52.47 mg/L	0.266	0.51%
Ni 231.604†	310.8	0.0078 mg/L	0.00021	0.0078 mg/L	0.00021	2.72%
Pb 220.353†	186.8	0.0149 mg/L	0.00028	0.0149 mg/L	0.00028	1.88%
Sb 206.836†	23.0	0.0037 mg/L	0.00169	0.0037 mg/L	0.00169	45.93%
Se 196.026†	4.9	-0.0018 mg/L	0.00388	-0.0018 mg/L	0.00388	220.31%
Sn 189.927†	-223.3	-0.0260 mg/L	0.00103	-0.0260 mg/L	0.00103	3.96%
Ti 337.279†	831.1	0.0439 mg/L	0.00149	0.0439 mg/L	0.00149	3.41%
Tl 351.924†	-2.6	0.0031 mg/L	0.00317	0.0031 mg/L	0.00317	102.76%
V 290.880†	1880.0	0.0081 mg/L	0.00035	0.0081 mg/L	0.00035	4.28%
Zn 206.200†	8486.4	0.1129 mg/L	0.00141	0.1129 mg/L	0.00141	1.25%
Zr 343.823†	370.1	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	30.39%

User canceled analysis.

SEE RERUN- JLC 04/18/24

=====
Analysis Begun

Start Time: 4/17/2024 3:56:21 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/17/2024 3:56:22 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====
Analysis Begun

Start Time: 4/17/2024 3:58:27 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 52

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/17/2024 3:58:27 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5240216.2	95.37 %	0.818			0.86%
Y radial	196462.0	102.3 %	0.56			0.54%
Ag 328.068†	712674.9	2.379 mg/L	0.0104	2.379 mg/L	0.0104	0.44%
QC value within limits for Ag 328.068		Recovery = 95.17%				
Al 396.153†	37732.9	9.507 mg/L	0.0150	9.507 mg/L	0.0150	0.16%
QC value within limits for Al 396.153		Recovery = 95.07%				
As 188.979†	15984.0	4.778 mg/L	0.0574	4.778 mg/L	0.0574	1.20%
QC value within limits for As 188.979		Recovery = 95.56%				
B 208.889†	88055.7	4.457 mg/L	0.0153	4.457 mg/L	0.0153	0.34%
QC value less than the lower limit for B 208.889		Recovery = 89.13%				
Ba 233.527†	816785.4	4.831 mg/L	0.0215	4.831 mg/L	0.0215	0.45%
QC value within limits for Ba 233.527		Recovery = 96.62%				
Be 313.107†	2089643.8	4.711 mg/L	0.0337	4.711 mg/L	0.0337	0.72%
QC value within limits for Be 313.107		Recovery = 94.21%				
Ca 317.933†	64456.9	9.272 mg/L	0.0183	9.272 mg/L	0.0183	0.20%
QC value within limits for Ca 317.933		Recovery = 92.72%				
Cd 228.802†	553733.1	4.775 mg/L	0.0255	4.775 mg/L	0.0255	0.53%
QC value within limits for Cd 228.802		Recovery = 95.50%				
Co 228.616†	486955.0	4.819 mg/L	0.0225	4.819 mg/L	0.0225	0.47%
QC value within limits for Co 228.616		Recovery = 96.37%				
Cr 267.716†	630164.6	4.822 mg/L	0.0197	4.822 mg/L	0.0197	0.41%
QC value within limits for Cr 267.716		Recovery = 96.45%				
Cu 327.393†	855693.2	4.828 mg/L	0.0179	4.828 mg/L	0.0179	0.37%
QC value within limits for Cu 327.393		Recovery = 96.56%				

Fe 238.204†	11077.7	4.689 mg/L	0.0224	4.689 mg/L	0.0224	0.48%
QC value within limits for Fe 238.204 Recovery = 93.78%						
K 766.490†	30541.6	9.226 mg/L	0.0371	9.226 mg/L	0.0371	0.40%
QC value within limits for K 766.490 Recovery = 92.26%						
Mg 285.213†	80472.1	9.340 mg/L	0.0324	9.340 mg/L	0.0324	0.35%
QC value within limits for Mg 285.213 Recovery = 93.40%						
Mn 257.610†	117168.8	4.689 mg/L	0.0080	4.689 mg/L	0.0080	0.17%
QC value within limits for Mn 257.610 Recovery = 93.78%						
Mo 202.031†	120695.9	4.794 mg/L	0.0183	4.794 mg/L	0.0183	0.38%
QC value within limits for Mo 202.031 Recovery = 95.87%						
Na 589.592†	109208.5	8.981 mg/L	0.0855	8.981 mg/L	0.0855	0.95%
QC value less than the lower limit for Na 589.592 Recovery = 89.81%						
Ni 231.604†	193412.2	4.853 mg/L	0.0161	4.853 mg/L	0.0161	0.33%
QC value within limits for Ni 231.604 Recovery = 97.05%						
Pb 220.353†	60324.1	4.850 mg/L	0.0522	4.850 mg/L	0.0522	1.08%
QC value within limits for Pb 220.353 Recovery = 97.00%						
Sb 206.836†	30410.0	4.747 mg/L	0.0630	4.747 mg/L	0.0630	1.33%
QC value within limits for Sb 206.836 Recovery = 94.94%						
Se 196.026†	9640.3	4.792 mg/L	0.0646	4.792 mg/L	0.0646	1.35%
QC value within limits for Se 196.026 Recovery = 95.85%						
Sn 189.927†	41306.9	4.795 mg/L	0.0505	4.795 mg/L	0.0505	1.05%
QC value within limits for Sn 189.927 Recovery = 95.90%						
Ti 337.279†	88903.3	4.689 mg/L	0.0213	4.689 mg/L	0.0213	0.45%
QC value within limits for Ti 337.279 Recovery = 93.78%						
Tl 351.924†	28698.9	2.377 mg/L	0.0340	2.377 mg/L	0.0340	1.43%
QC value within limits for Tl 351.924 Recovery = 95.10%						
V 290.880†	1059393.0	4.767 mg/L	0.0190	4.767 mg/L	0.0190	0.40%
QC value within limits for V 290.880 Recovery = 95.34%						
Zn 206.200†	350114.3	4.879 mg/L	0.0250	4.879 mg/L	0.0250	0.51%
QC value within limits for Zn 206.200 Recovery = 97.59%						
Zr 343.823†	2157311.3	4.792 mg/L	0.0163	4.792 mg/L	0.0163	0.34%
QC Failed. Continue with analysis.						

Sequence No.: 53

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 4:04:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5444322.6	99.08 %	1.914			1.93%
Y radial	202897.9	105.6 %	1.02			0.97%
Ag 328.068†	272.8	0.0009 mg/L	0.00019	0.0009 mg/L	0.00019	20.71%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-17.0	-0.0044 mg/L	0.00177	-0.0044 mg/L	0.00177	40.05%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-4.4	-0.0013 mg/L	0.00145	-0.0013 mg/L	0.00145	113.37%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2074.0	-0.1107 mg/L	0.00075	-0.1107 mg/L	0.00075	0.68%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	3.5	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	261.60%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-64.0	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	13.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	0.9	0.0001 mg/L	0.00398	0.0001 mg/L	0.00398	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-12.3	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	78.14%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	22.8	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	26.67%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.3	-0.0000 mg/L	0.00012	-0.0000 mg/L	0.00012	469.61%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-753.9	-0.0042 mg/L	0.00032	-0.0042 mg/L	0.00032	7.49%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	10.5	0.0044 mg/L	0.00070	0.0044 mg/L	0.00070	15.82%

QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	82.1	0.0248 mg/L	0.02608	0.0248 mg/L	0.02608	105.21%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	11.8	0.0014 mg/L	0.00008	0.0014 mg/L	0.00008	5.46%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	-2.7	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	133.13%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	20.8	0.0008 mg/L	0.00009	0.0008 mg/L	0.00009	10.73%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	2706.3	0.2226 mg/L	0.00584	0.2226 mg/L	0.00584	2.62%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-6.3	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	78.57%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	5.3	0.0004 mg/L	0.00033	0.0004 mg/L	0.00033	76.47%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	3.2	0.0005 mg/L	0.00031	0.0005 mg/L	0.00031	60.63%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	2.5	0.0012 mg/L	0.00091	0.0012 mg/L	0.00091	73.63%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	4.2	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	18.50%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-6.4	-0.0003 mg/L	0.00013	-0.0003 mg/L	0.00013	37.62%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	45.5	0.0038 mg/L	0.00418	0.0038 mg/L	0.00418	109.19%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	183.8	0.0008 mg/L	0.00083	0.0008 mg/L	0.00083	100.06%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	-72.9	-0.0010 mg/L	0.00003	-0.0010 mg/L	0.00003	3.23%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	-35.7	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	98.32%
All analyte(s) passed QC.						

Sequence No.: 54

Sample ID: 24D0735-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 68

Date Collected: 4/17/2024 4:09:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5301473.5	96.49 %		0.996			1.03%
Y radial	199920.7	104.1 %		0.87			0.84%
Ag 328.068†	199.8	0.0004 mg/L		0.00038	0.0004 mg/L	0.00038	85.18%
Al 396.153†	57.5	0.0150 mg/L		0.00061	0.0150 mg/L	0.00061	4.05%
As 188.979†	-22.8	-0.0052 mg/L		0.00068	-0.0052 mg/L	0.00068	12.95%
B 208.889†	-1034.7	-0.0552 mg/L		0.00068	-0.0552 mg/L	0.00068	1.23%
Ba 233.527†	5872.9	0.0342 mg/L		0.00031	0.0342 mg/L	0.00031	0.91%
Be 313.107†	-6.1	-0.0000 mg/L		0.00002	-0.0000 mg/L	0.00002	66.05%
Ca 317.933†	165755.4	23.84 mg/L		0.092	23.84 mg/L	0.092	0.38%
Cd 228.802†	12.1	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	17.51%
Co 228.616†	701.5	0.0069 mg/L		0.00007	0.0069 mg/L	0.00007	1.00%
Cr 267.716†	143.2	0.0005 mg/L		0.00007	0.0005 mg/L	0.00007	13.97%
Cu 327.393†	-563.7	-0.0032 mg/L		0.00036	-0.0032 mg/L	0.00036	11.30%
Fe 238.204†	8698.9	3.662 mg/L		0.0349	3.662 mg/L	0.0349	0.95%
K 766.490†	8386.9	2.533 mg/L		0.0282	2.533 mg/L	0.0282	1.11%
Mg 285.213†	34731.8	4.038 mg/L		0.0377	4.038 mg/L	0.0377	0.93%
Mn 257.610†	32906.7	1.317 mg/L		0.0101	1.317 mg/L	0.0101	0.77%
Mo 202.031†	16.1	0.0006 mg/L		0.00010	0.0006 mg/L	0.00010	15.78%
Na 589.592†	172593.4	14.19 mg/L		0.054	14.19 mg/L	0.054	0.38%
Ni 231.604†	50.2	0.0013 mg/L		0.00035	0.0013 mg/L	0.00035	27.81%
Pb 220.353†	27.7	0.0020 mg/L		0.00036	0.0020 mg/L	0.00036	17.76%
Sb 206.836†	11.1	0.0018 mg/L		0.00091	0.0018 mg/L	0.00091	50.80%
Se 196.026†	6.1	-0.0005 mg/L		0.00300	-0.0005 mg/L	0.00300	613.26%
Sn 189.927†	-188.6	-0.0219 mg/L		0.00084	-0.0219 mg/L	0.00084	3.85%
Ti 337.279†	24.5	0.0013 mg/L		0.00024	0.0013 mg/L	0.00024	18.45%
Tl 351.924†	-38.0	-0.0008 mg/L		0.00498	-0.0008 mg/L	0.00498	592.97%

V 290.880†	589.5	0.0024 mg/L	0.00019	0.0024 mg/L	0.00019	8.10%
Zn 206.200†	60.7	-0.0006 mg/L	0.00005	-0.0006 mg/L	0.00005	8.10%
Zr 343.823†	120.4	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	24.88%

Sequence No.: 55
Sample ID: 24D0735-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 69
Date Collected: 4/17/2024 4:15:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5415425.6	98.56 %		1.774			1.80%
Y radial	199613.9	103.9 %		1.28			1.24%
Ag 328.068†	269.5	0.0009 mg/L		0.00031	0.0009 mg/L	0.00031	34.02%
Al 396.153†	163.7	0.0423 mg/L		0.00175	0.0423 mg/L	0.00175	4.14%
As 188.979†	-11.9	-0.0034 mg/L		0.00280	-0.0034 mg/L	0.00280	82.78%
B 208.889†	-1569.7	-0.0838 mg/L		0.00080	-0.0838 mg/L	0.00080	0.95%
Ba 233.527†	5454.4	0.0322 mg/L		0.00055	0.0322 mg/L	0.00055	1.70%
Be 313.107†	-30.7	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	43.60%
Ca 317.933†	61443.0	8.838 mg/L		0.0862	8.838 mg/L	0.0862	0.98%
Cd 228.802†	82.3	0.0008 mg/L		0.00006	0.0008 mg/L	0.00006	7.73%
Co 228.616†	33.5	0.0003 mg/L		0.00007	0.0003 mg/L	0.00007	20.01%
Cr 267.716†	2307.7	0.0176 mg/L		0.00038	0.0176 mg/L	0.00038	2.16%
Cu 327.393†	-501.5	-0.0028 mg/L		0.00014	-0.0028 mg/L	0.00014	5.02%
Fe 238.204†	266.0	0.1120 mg/L		0.00158	0.1120 mg/L	0.00158	1.41%
K 766.490†	4821.9	1.457 mg/L		0.0098	1.457 mg/L	0.0098	0.67%
Mg 285.213†	12574.0	1.461 mg/L		0.0109	1.461 mg/L	0.0109	0.75%
Mn 257.610†	516.7	0.0207 mg/L		0.00047	0.0207 mg/L	0.00047	2.26%
Mo 202.031†	11.5	0.0005 mg/L		0.00016	0.0005 mg/L	0.00016	36.02%
Na 589.592†	136199.6	11.20 mg/L		0.053	11.20 mg/L	0.053	0.48%
Ni 231.604†	18.8	0.0005 mg/L		0.00012	0.0005 mg/L	0.00012	26.18%
Pb 220.353†	4.9	0.0004 mg/L		0.00071	0.0004 mg/L	0.00071	177.74%
Sb 206.836†	9.1	0.0010 mg/L		0.00077	0.0010 mg/L	0.00077	73.51%
Se 196.026†	4.8	0.0012 mg/L		0.00205	0.0012 mg/L	0.00205	176.85%
Sn 189.927†	-88.8	-0.0103 mg/L		0.00054	-0.0103 mg/L	0.00054	5.26%
Ti 337.279†	33.4	0.0018 mg/L		0.00036	0.0018 mg/L	0.00036	20.70%
Tl 351.924†	66.4	0.0056 mg/L		0.00396	0.0056 mg/L	0.00396	70.04%
V 290.880†	527.6	0.0024 mg/L		0.00085	0.0024 mg/L	0.00085	35.73%
Zn 206.200†	170.6	0.0015 mg/L		0.00004	0.0015 mg/L	0.00004	2.69%
Zr 343.823†	6.4	0.0000 mg/L		0.00012	0.0000 mg/L	0.00012	>999.9%

Sequence No.: 56
Sample ID: 24D0735-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 70
Date Collected: 4/17/2024 4:20:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5198803.3	94.62 %		1.354			1.43%
Y radial	201403.5	104.8 %		1.01			0.96%
Ag 328.068†	146.7	0.0006 mg/L		0.00028	0.0006 mg/L	0.00028	49.07%
Al 396.153†	3747.8	0.9698 mg/L		0.00797	0.9698 mg/L	0.00797	0.82%
As 188.979†	-30.7	-0.0064 mg/L		0.00098	-0.0064 mg/L	0.00098	15.33%
B 208.889†	-1576.2	-0.0841 mg/L		0.00095	-0.0841 mg/L	0.00095	1.13%
Ba 233.527†	8829.6	0.0514 mg/L		0.00084	0.0514 mg/L	0.00084	1.63%
Be 313.107†	-68.0	-0.0002 mg/L		0.00004	-0.0002 mg/L	0.00004	21.47%
Ca 317.933†	217319.4	31.26 mg/L		0.192	31.26 mg/L	0.192	0.61%
Cd 228.802†	61306.4	0.5385 mg/L		0.00627	0.5385 mg/L	0.00627	1.16%
Co 228.616†	656.0	0.0064 mg/L		0.00011	0.0064 mg/L	0.00011	1.75%
Cr 267.716†	544.1	0.0042 mg/L		0.00020	0.0042 mg/L	0.00020	4.83%

Cu 327.393†	6567.1	0.0369 mg/L	0.00054	0.0369 mg/L	0.00054	1.47%
Fe 238.204†	13064.4	5.500 mg/L	0.0530	5.500 mg/L	0.0530	0.96%
K 766.490†	10819.1	3.268 mg/L	0.0295	3.268 mg/L	0.0295	0.90%
Mg 285.213†	46667.7	5.426 mg/L	0.0356	5.426 mg/L	0.0356	0.66%
Mn 257.610†	7682.4	0.3079 mg/L	0.00301	0.3079 mg/L	0.00301	0.98%
Mo 202.031†	28.8	0.0011 mg/L	0.00016	0.0011 mg/L	0.00016	14.18%
Na 589.592†	558102.7	45.90 mg/L	0.309	45.90 mg/L	0.309	0.67%
Ni 231.604†	312.1	0.0078 mg/L	0.00016	0.0078 mg/L	0.00016	2.03%
Pb 220.353†	189.2	0.0151 mg/L	0.00074	0.0151 mg/L	0.00074	4.88%
Sb 206.836†	21.1	0.0034 mg/L	0.00093	0.0034 mg/L	0.00093	27.37%
Se 196.026†	6.8	-0.0008 mg/L	0.00231	-0.0008 mg/L	0.00231	278.34%
Sn 189.927†	-224.9	-0.0261 mg/L	0.00085	-0.0261 mg/L	0.00085	3.26%
Ti 337.279†	859.2	0.0453 mg/L	0.00092	0.0453 mg/L	0.00092	2.04%
Tl 351.924†	-18.5	0.0018 mg/L	0.01015	0.0018 mg/L	0.01015	557.97%
V 290.880†	2158.4	0.0093 mg/L	0.00085	0.0093 mg/L	0.00085	9.12%
Zn 206.200†	8594.4	0.1149 mg/L	0.00114	0.1149 mg/L	0.00114	0.99%
Zr 343.823†	505.6	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	26.03%

Sequence No.: 57

Sample ID: 24D0735-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 71

Date Collected: 4/17/2024 4:26:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5477735.9	99.69	%	0.693				0.70%
Y radial	201760.4	105.0	%	1.28				1.21%
Ag 328.068†	396.9	0.0014	mg/L	0.00015	0.0014	mg/L	0.00015	10.74%
Al 396.153†	1087.4	0.2813	mg/L	0.01268	0.2813	mg/L	0.01268	4.51%
As 188.979†	-16.5	-0.0046	mg/L	0.00070	-0.0046	mg/L	0.00070	15.35%
B 208.889†	-1621.7	-0.0865	mg/L	0.00088	-0.0865	mg/L	0.00088	1.02%
Ba 233.527†	2323.5	0.0137	mg/L	0.00009	0.0137	mg/L	0.00009	0.64%
Be 313.107†	-29.6	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.50%
Ca 317.933†	53487.1	7.694	mg/L	0.0692	7.694	mg/L	0.0692	0.90%
Cd 228.802†	-3.8	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	57.05%
Co 228.616†	47.6	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	20.44%
Cr 267.716†	138.2	0.0011	mg/L	0.00016	0.0011	mg/L	0.00016	14.88%
Cu 327.393†	-631.2	-0.0035	mg/L	0.00005	-0.0035	mg/L	0.00005	1.45%
Fe 238.204†	862.1	0.3629	mg/L	0.00475	0.3629	mg/L	0.00475	1.31%
K 766.490†	4957.7	1.498	mg/L	0.0105	1.498	mg/L	0.0105	0.70%
Mg 285.213†	11365.2	1.321	mg/L	0.0063	1.321	mg/L	0.0063	0.48%
Mn 257.610†	415.9	0.0167	mg/L	0.00040	0.0167	mg/L	0.00040	2.39%
Mo 202.031†	5.5	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	50.67%
Na 589.592†	143568.4	11.81	mg/L	0.103	11.81	mg/L	0.103	0.87%
Ni 231.604†	28.7	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015	20.18%
Pb 220.353†	5.5	0.0005	mg/L	0.00065	0.0005	mg/L	0.00065	139.69%
Sb 206.836†	8.9	0.0014	mg/L	0.00052	0.0014	mg/L	0.00052	38.23%
Se 196.026†	4.5	0.0012	mg/L	0.00111	0.0012	mg/L	0.00111	95.61%
Sn 189.927†	-77.1	-0.0090	mg/L	0.00037	-0.0090	mg/L	0.00037	4.16%
Ti 337.279†	199.5	0.0105	mg/L	0.00043	0.0105	mg/L	0.00043	4.10%
Tl 351.924†	11.1	0.0011	mg/L	0.00288	0.0011	mg/L	0.00288	255.78%
V 290.880†	600.5	0.0027	mg/L	0.00035	0.0027	mg/L	0.00035	13.02%
Zn 206.200†	113.5	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	8.74%
Zr 343.823†	23.4	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	358.88%

Sequence No.: 58

Sample ID: 24D0735-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 72

Date Collected: 4/17/2024 4:31:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5243203.7	95.42	%	0.663			0.70%
Y radial	201536.2	104.9	%	1.43			1.37%
Ag 328.068†	168.4	0.0005	mg/L	0.00017	0.0005 mg/L	0.00017	32.32%
Al 396.153†	1273.9	0.3295	mg/L	0.00569	0.3295 mg/L	0.00569	1.73%
As 188.979†	-27.1	-0.0068	mg/L	0.00318	-0.0068 mg/L	0.00318	46.97%
B 208.889†	-1054.5	-0.0563	mg/L	0.00020	-0.0563 mg/L	0.00020	0.36%
Ba 233.527†	3971.0	0.0234	mg/L	0.00012	0.0234 mg/L	0.00012	0.51%
Be 313.107†	-44.4	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	13.93%
Ca 317.933†	369459.6	53.14	mg/L	0.444	53.14 mg/L	0.444	0.84%
Cd 228.802†	5520.5	0.0487	mg/L	0.00035	0.0487 mg/L	0.00035	0.72%
Co 228.616†	90.1	0.0009	mg/L	0.00004	0.0009 mg/L	0.00004	4.81%
Cr 267.716†	245.7	0.0018	mg/L	0.00004	0.0018 mg/L	0.00004	2.11%
Cu 327.393†	-334.6	-0.0019	mg/L	0.00010	-0.0019 mg/L	0.00010	5.46%
Fe 238.204†	703.8	0.2963	mg/L	0.00239	0.2963 mg/L	0.00239	0.81%
K 766.490†	18777.5	5.672	mg/L	0.0386	5.672 mg/L	0.0386	0.68%
Mg 285.213†	49098.0	5.698	mg/L	0.0208	5.698 mg/L	0.0208	0.36%
Mn 257.610†	5174.7	0.2071	mg/L	0.00288	0.2071 mg/L	0.00288	1.39%
Mo 202.031†	29.7	0.0012	mg/L	0.00020	0.0012 mg/L	0.00020	16.52%
Na 589.592†	240638.4	19.79	mg/L	0.126	19.79 mg/L	0.126	0.64%
Ni 231.604†	88.0	0.0022	mg/L	0.00002	0.0022 mg/L	0.00002	0.91%
Pb 220.353†	33.0	0.0027	mg/L	0.00049	0.0027 mg/L	0.00049	18.24%
Sb 206.836†	20.3	0.0030	mg/L	0.00031	0.0030 mg/L	0.00031	10.18%
Se 196.026†	-0.1	-0.0067	mg/L	0.00177	-0.0067 mg/L	0.00177	26.52%
Sn 189.927†	-273.0	-0.0317	mg/L	0.00054	-0.0317 mg/L	0.00054	1.71%
Ti 337.279†	222.2	0.0117	mg/L	0.00096	0.0117 mg/L	0.00096	8.21%
Tl 351.924†	13.8	0.0013	mg/L	0.00436	0.0013 mg/L	0.00436	336.25%
V 290.880†	914.9	0.0041	mg/L	0.00036	0.0041 mg/L	0.00036	8.71%
Zn 206.200†	171.2	0.0007	mg/L	0.00006	0.0007 mg/L	0.00006	9.44%
Zr 343.823†	225.7	0.0005	mg/L	0.00016	0.0005 mg/L	0.00016	32.58%

Sequence No.: 59

Sample ID: 24D0735-09

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 73

Date Collected: 4/17/2024 4:37:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-09

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5250711.7	95.56	%	1.067			1.12%
Y radial	202304.6	105.3	%	0.15			0.14%
Ag 328.068†	274.8	0.0009	mg/L	0.00026	0.0009 mg/L	0.00026	27.49%
Al 396.153†	767.1	0.1985	mg/L	0.00103	0.1985 mg/L	0.00103	0.52%
As 188.979†	-21.8	-0.0055	mg/L	0.00251	-0.0055 mg/L	0.00251	45.83%
B 208.889†	-1644.1	-0.0878	mg/L	0.00067	-0.0878 mg/L	0.00067	0.76%
Ba 233.527†	2710.5	0.0158	mg/L	0.00023	0.0158 mg/L	0.00023	1.47%
Be 313.107†	-24.4	-0.0001	mg/L	0.00001	-0.0001 mg/L	0.00001	10.83%
Ca 317.933†	191905.7	27.60	mg/L	0.101	27.60 mg/L	0.101	0.37%
Cd 228.802†	525.6	0.0048	mg/L	0.00011	0.0048 mg/L	0.00011	2.39%
Co 228.616†	59.0	0.0006	mg/L	0.00005	0.0006 mg/L	0.00005	9.46%
Cr 267.716†	183.5	0.0014	mg/L	0.00001	0.0014 mg/L	0.00001	1.01%
Cu 327.393†	3741.5	0.0210	mg/L	0.00032	0.0210 mg/L	0.00032	1.52%
Fe 238.204†	3304.7	1.391	mg/L	0.0019	1.391 mg/L	0.0019	0.14%
K 766.490†	13275.8	4.010	mg/L	0.0105	4.010 mg/L	0.0105	0.26%
Mg 285.213†	43511.9	5.056	mg/L	0.0124	5.056 mg/L	0.0124	0.25%
Mn 257.610†	3244.8	0.1300	mg/L	0.00027	0.1300 mg/L	0.00027	0.20%
Mo 202.031†	28.1	0.0011	mg/L	0.00020	0.0011 mg/L	0.00020	17.62%
Na 589.592†	404369.5	33.26	mg/L	0.041	33.26 mg/L	0.041	0.12%
Ni 231.604†	66.2	0.0017	mg/L	0.00028	0.0017 mg/L	0.00028	16.67%
Pb 220.353†	26.4	0.0021	mg/L	0.00017	0.0021 mg/L	0.00017	8.41%
Sb 206.836†	11.6	0.0017	mg/L	0.00033	0.0017 mg/L	0.00033	19.19%
Se 196.026†	5.8	-0.0010	mg/L	0.00249	-0.0010 mg/L	0.00249	258.60%
Sn 189.927†	-218.5	-0.0254	mg/L	0.00016	-0.0254 mg/L	0.00016	0.64%
Ti 337.279†	95.1	0.0050	mg/L	0.00033	0.0050 mg/L	0.00033	6.59%
Tl 351.924†	8.5	0.0016	mg/L	0.00239	0.0016 mg/L	0.00239	151.48%

V 290.880†	1423.4	0.0063 mg/L	0.00035	0.0063 mg/L	0.00035	5.57%
Zn 206.200†	860.3	0.0090 mg/L	0.00014	0.0090 mg/L	0.00014	1.54%
Zr 343.823†	211.9	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	31.04%

Sequence No.: 60

Sample ID: 24D0735-10

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 74

Date Collected: 4/17/2024 4:42:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5404765.9	98.36 %		1.472			1.50%
Y radial	202571.2	105.4 %		1.12			1.06%
Ag 328.068†	305.1	0.0011 mg/L		0.00022	0.0011 mg/L	0.00022	19.61%
Al 396.153†	6150.0	1.591 mg/L		0.0201	1.591 mg/L	0.0201	1.26%
As 188.979†	-9.4	-0.0008 mg/L		0.00090	-0.0008 mg/L	0.00090	115.17%
B 208.889†	-2116.1	-0.1129 mg/L		0.00059	-0.1129 mg/L	0.00059	0.52%
Ba 233.527†	5324.0	0.0310 mg/L		0.00050	0.0310 mg/L	0.00050	1.62%
Be 313.107†	-6.5	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	57.70%
Ca 317.933†	54391.0	7.824 mg/L		0.0360	7.824 mg/L	0.0360	0.46%
Cd 228.802†	346.4	0.0031 mg/L		0.00012	0.0031 mg/L	0.00012	3.70%
Co 228.616†	226.1	0.0021 mg/L		0.00009	0.0021 mg/L	0.00009	4.40%
Cr 267.716†	965.0	0.0074 mg/L		0.00016	0.0074 mg/L	0.00016	2.16%
Cu 327.393†	4869.5	0.0274 mg/L		0.00069	0.0274 mg/L	0.00069	2.53%
Fe 238.204†	8408.8	3.540 mg/L		0.0415	3.540 mg/L	0.0415	1.17%
K 766.490†	2812.5	0.8496 mg/L		0.01041	0.8496 mg/L	0.01041	1.23%
Mg 285.213†	15822.6	1.842 mg/L		0.0211	1.842 mg/L	0.0211	1.15%
Mn 257.610†	2031.5	0.0816 mg/L		0.00079	0.0816 mg/L	0.00079	0.97%
Mo 202.031†	14.5	0.0006 mg/L		0.00024	0.0006 mg/L	0.00024	41.53%
Na 589.592†	110674.1	9.102 mg/L		0.1010	9.102 mg/L	0.1010	1.11%
Ni 231.604†	260.6	0.0065 mg/L		0.00018	0.0065 mg/L	0.00018	2.68%
Pb 220.353†	94.5	0.0076 mg/L		0.00067	0.0076 mg/L	0.00067	8.85%
Sb 206.836†	15.6	0.0025 mg/L		0.00040	0.0025 mg/L	0.00040	16.13%
Se 196.026†	3.2	0.0005 mg/L		0.00557	0.0005 mg/L	0.00557	>999.9%
Sn 189.927†	-80.3	-0.0093 mg/L		0.00011	-0.0093 mg/L	0.00011	1.19%
Ti 337.279†	1526.9	0.0806 mg/L		0.00081	0.0806 mg/L	0.00081	1.00%
Tl 351.924†	-49.5	-0.0022 mg/L		0.00653	-0.0022 mg/L	0.00653	297.08%
V 290.880†	2823.0	0.0125 mg/L		0.00114	0.0125 mg/L	0.00114	9.16%
Zn 206.200†	12705.4	0.1752 mg/L		0.00295	0.1752 mg/L	0.00295	1.68%
Zr 343.823†	230.0	0.0004 mg/L		0.00011	0.0004 mg/L	0.00011	26.04%

Sequence No.: 61

Sample ID: 24D0735-11

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 75

Date Collected: 4/17/2024 4:48:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5375643.2	97.83 %		0.116			0.12%
Y radial	199718.4	103.9 %		0.83			0.79%
Ag 328.068†	321.8	0.0011 mg/L		0.00015	0.0011 mg/L	0.00015	13.53%
Al 396.153†	289.6	0.0749 mg/L		0.00130	0.0749 mg/L	0.00130	1.74%
As 188.979†	-23.7	-0.0066 mg/L		0.00106	-0.0066 mg/L	0.00106	15.95%
B 208.889†	-1813.3	-0.0968 mg/L		0.00040	-0.0968 mg/L	0.00040	0.41%
Ba 233.527†	2240.7	0.0132 mg/L		0.00006	0.0132 mg/L	0.00006	0.47%
Be 313.107†	-37.9	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	24.28%
Ca 317.933†	133117.6	19.15 mg/L		0.063	19.15 mg/L	0.063	0.33%
Cd 228.802†	-9.6	0.0001 mg/L		0.00006	0.0001 mg/L	0.00006	78.07%
Co 228.616†	45.0	0.0004 mg/L		0.00001	0.0004 mg/L	0.00001	2.62%
Cr 267.716†	111.9	0.0009 mg/L		0.00008	0.0009 mg/L	0.00008	9.32%

Cu 327.393†	-5.0	-0.0000 mg/L	0.00020	-0.0000 mg/L	0.00020	714.81%
Fe 238.204†	179.8	0.0757 mg/L	0.00095	0.0757 mg/L	0.00095	1.25%
K 766.490†	4845.0	1.464 mg/L	0.0065	1.464 mg/L	0.0065	0.44%
Mg 285.213†	50034.2	5.817 mg/L	0.0179	5.817 mg/L	0.0179	0.31%
Mn 257.610†	34.9	0.0014 mg/L	0.00011	0.0014 mg/L	0.00011	7.89%
Mo 202.031†	21.0	0.0008 mg/L	0.00019	0.0008 mg/L	0.00019	23.16%
Na 589.592†	135693.7	11.16 mg/L	0.034	11.16 mg/L	0.034	0.30%
Ni 231.604†	46.5	0.0012 mg/L	0.00003	0.0012 mg/L	0.00003	2.98%
Pb 220.353†	18.1	0.0015 mg/L	0.00089	0.0015 mg/L	0.00089	60.67%
Sb 206.836†	19.8	0.0030 mg/L	0.00039	0.0030 mg/L	0.00039	12.91%
Se 196.026†	3.7	-0.0013 mg/L	0.00122	-0.0013 mg/L	0.00122	96.37%
Sn 189.927†	-175.6	-0.0204 mg/L	0.00012	-0.0204 mg/L	0.00012	0.60%
Ti 337.279†	35.1	0.0019 mg/L	0.00019	0.0019 mg/L	0.00019	10.24%
Tl 351.924†	-31.1	-0.0026 mg/L	0.00269	-0.0026 mg/L	0.00269	103.70%
V 290.880†	683.2	0.0031 mg/L	0.00032	0.0031 mg/L	0.00032	10.55%
Zn 206.200†	418.2	0.0048 mg/L	0.00018	0.0048 mg/L	0.00018	3.62%
Zr 343.823†	68.1	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	61.26%

Sequence No.: 62
Sample ID: 24D0735-12
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 76
Date Collected: 4/17/2024 4:54:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5312658.6	96.69	%	0.740				0.76%
Y radial	199665.5	103.9	%	1.97				1.90%
Ag 328.068†	249.0	0.0009 mg/L		0.00025	0.0009 mg/L		0.00025	29.11%
Al 396.153†	66.0	0.0172 mg/L		0.00144	0.0172 mg/L		0.00144	8.38%
As 188.979†	-9.4	-0.0018 mg/L		0.00025	-0.0018 mg/L		0.00025	13.40%
B 208.889†	-1699.9	-0.0907 mg/L		0.00035	-0.0907 mg/L		0.00035	0.38%
Ba 233.527†	6792.1	0.0398 mg/L		0.00031	0.0398 mg/L		0.00031	0.77%
Be 313.107†	34.3	0.0001 mg/L		0.00004	0.0001 mg/L		0.00004	58.16%
Ca 317.933†	84383.1	12.14 mg/L		0.335	12.14 mg/L		0.335	2.76%
Cd 228.802†	-7.5	0.0000 mg/L		0.00016	0.0000 mg/L		0.00016	510.55%
Co 228.616†	121.3	0.0012 mg/L		0.00005	0.0012 mg/L		0.00005	4.03%
Cr 267.716†	68.0	0.0005 mg/L		0.00011	0.0005 mg/L		0.00011	23.30%
Cu 327.393†	-540.1	-0.0030 mg/L		0.00020	-0.0030 mg/L		0.00020	6.47%
Fe 238.204†	5430.5	2.286 mg/L		0.0428	2.286 mg/L		0.0428	1.87%
K 766.490†	4583.3	1.384 mg/L		0.0368	1.384 mg/L		0.0368	2.66%
Mg 285.213†	45114.0	5.248 mg/L		0.1032	5.248 mg/L		0.1032	1.97%
Mn 257.610†	3177.5	0.1273 mg/L		0.00263	0.1273 mg/L		0.00263	2.07%
Mo 202.031†	5.5	0.0002 mg/L		0.00013	0.0002 mg/L		0.00013	60.93%
Na 589.592†	398942.0	32.81 mg/L		0.904	32.81 mg/L		0.904	2.76%
Ni 231.604†	42.3	0.0011 mg/L		0.00020	0.0011 mg/L		0.00020	18.72%
Pb 220.353†	3.8	0.0002 mg/L		0.00058	0.0002 mg/L		0.00058	239.30%
Sb 206.836†	9.1	0.0015 mg/L		0.00031	0.0015 mg/L		0.00031	21.57%
Se 196.026†	1.9	-0.0013 mg/L		0.00102	-0.0013 mg/L		0.00102	77.57%
Sn 189.927†	-129.1	-0.0150 mg/L		0.00088	-0.0150 mg/L		0.00088	5.87%
Ti 337.279†	0.8	0.0000 mg/L		0.00016	0.0000 mg/L		0.00016	352.43%
Tl 351.924†	-6.1	0.0010 mg/L		0.00262	0.0010 mg/L		0.00262	271.36%
V 290.880†	530.4	0.0022 mg/L		0.00015	0.0022 mg/L		0.00015	6.92%
Zn 206.200†	252.4	0.0005 mg/L		0.00008	0.0005 mg/L		0.00008	14.74%
Zr 343.823†	27.9	0.0000 mg/L		0.00010	0.0000 mg/L		0.00010	>999.9%

Sequence No.: 63
Sample ID: 24D0735-13
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 77
Date Collected: 4/17/2024 4:59:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-13

Analyte	Mean	Corrected	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
	Intensity	Conc.	Units			Units		
Y axial	5407062.6	98.41	%	1.174				1.19%
Y radial	201308.9	104.8	%	0.64				0.61%
Ag 328.068†	388.8	0.0012	mg/L	0.00031	0.0012	mg/L	0.00031	25.50%
Al 396.153†	279.2	0.0722	mg/L	0.00157	0.0722	mg/L	0.00157	2.18%
As 188.979†	-20.6	-0.0058	mg/L	0.00167	-0.0058	mg/L	0.00167	28.97%
B 208.889†	-1894.5	-0.1011	mg/L	0.00041	-0.1011	mg/L	0.00041	0.41%
Ba 233.527†	1971.0	0.0116	mg/L	0.00016	0.0116	mg/L	0.00016	1.34%
Be 313.107†	-49.5	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	18.97%
Ca 317.933†	103864.7	14.94	mg/L	0.073	14.94	mg/L	0.073	0.49%
Cd 228.802†	3094.1	0.0273	mg/L	0.00036	0.0273	mg/L	0.00036	1.34%
Co 228.616†	62.0	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	14.87%
Cr 267.716†	541.1	0.0039	mg/L	0.00021	0.0039	mg/L	0.00021	5.43%
Cu 327.393†	216.6	0.0012	mg/L	0.00023	0.0012	mg/L	0.00023	18.75%
Fe 238.204†	335.7	0.1413	mg/L	0.00145	0.1413	mg/L	0.00145	1.03%
K 766.490†	6094.9	1.841	mg/L	0.0144	1.841	mg/L	0.0144	0.78%
Mg 285.213†	14044.7	1.630	mg/L	0.0064	1.630	mg/L	0.0064	0.39%
Mn 257.610†	11828.1	0.4733	mg/L	0.00193	0.4733	mg/L	0.00193	0.41%
Mo 202.031†	7.4	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	24.26%
Na 589.592†	108431.7	8.917	mg/L	0.0422	8.917	mg/L	0.0422	0.47%
Ni 231.604†	59.5	0.0015	mg/L	0.00030	0.0015	mg/L	0.00030	19.89%
Pb 220.353†	31.4	0.0025	mg/L	0.00016	0.0025	mg/L	0.00016	6.45%
Sb 206.836†	7.0	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	14.93%
Se 196.026†	-0.3	-0.0021	mg/L	0.00068	-0.0021	mg/L	0.00068	31.81%
Sn 189.927†	-138.2	-0.0161	mg/L	0.00115	-0.0161	mg/L	0.00115	7.13%
Ti 337.279†	55.4	0.0029	mg/L	0.00045	0.0029	mg/L	0.00045	15.49%
Tl 351.924†	58.5	0.0050	mg/L	0.00546	0.0050	mg/L	0.00546	109.18%
V 290.880†	596.2	0.0027	mg/L	0.00042	0.0027	mg/L	0.00042	15.76%
Zn 206.200†	90.9	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	12.25%
Zr 343.823†	-5.6	-0.0000	mg/L	0.00013	-0.0000	mg/L	0.00013	842.93%

Sequence No. : 64

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 5:05:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEO-CCV@ 23J0975

Mean Corrected		Calib.		Sample		RSD	
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.		Units
Y axial	5274394.3	95.99	%	0.565			0.59%
Y radial	199018.1	103.6	%	1.20			1.16%
Ag 328.068†	700950.0	2.340	mg/L	0.0095	2.340	mg/L	0.41%
QC value within limits for Ag 328.068		Recovery = 93.60%					
Al 396.153†	37390.3	9.419	mg/L	0.0556	9.419	mg/L	0.59%
QC value within limits for Al 396.153		Recovery = 94.19%					
As 188.979†	15996.3	4.782	mg/L	0.0174	4.782	mg/L	0.36%
QC value within limits for As 188.979		Recovery = 95.63%					
B 208.889†	86749.3	4.388	mg/L	0.0057	4.388	mg/L	0.13%
QC value less than the lower limit for B 208.889		Recovery = 87.75%					
Ba 233.527†	816232.9	4.828	mg/L	0.0090	4.828	mg/L	0.19%
QC value within limits for Ba 233.527		Recovery = 96.56%					
Be 313.107†	2069041.0	4.664	mg/L	0.0192	4.664	mg/L	0.41%
QC value within limits for Be 313.107		Recovery = 93.28%					
Ca 317.933†	64053.1	9.213	mg/L	0.0446	9.213	mg/L	0.48%
QC value within limits for Ca 317.933		Recovery = 92.13%					
Cd 228.802†	552355.7	4.763	mg/L	0.0092	4.763	mg/L	0.19%
QC value within limits for Cd 228.802		Recovery = 95.26%					
Co 228.616†	485668.4	4.806	mg/L	0.0081	4.806	mg/L	0.17%
QC value within limits for Co 228.616		Recovery = 96.12%					
Cr 267.716†	628040.8	4.806	mg/L	0.0083	4.806	mg/L	0.17%
QC value within limits for Cr 267.716		Recovery = 96.12%					
Cu 327.393†	846034.2	4.774	mg/L	0.0119	4.774	mg/L	0.25%
QC value within limits for Cu 327.393		Recovery = 95.48%					
Fe 238.204†	11034.2	4.670	mg/L	0.0147	4.670	mg/L	0.32%
QC value within limits for Fe 238.204		Recovery = 93.41%					

K 766.490†	30489.7	9.210 mg/L	0.0701	9.210 mg/L	0.0701	0.76%
QC value within limits for K 766.490 Recovery = 92.10%						
Mg 285.213†	79956.3	9.280 mg/L	0.0524	9.280 mg/L	0.0524	0.56%
QC value within limits for Mg 285.213 Recovery = 92.80%						
Mn 257.610†	116545.3	4.664 mg/L	0.0208	4.664 mg/L	0.0208	0.45%
QC value within limits for Mn 257.610 Recovery = 93.29%						
Mo 202.031†	120372.9	4.781 mg/L	0.0039	4.781 mg/L	0.0039	0.08%
QC value within limits for Mo 202.031 Recovery = 95.62%						
Na 589.592†	106983.0	8.798 mg/L	0.0228	8.798 mg/L	0.0228	0.26%
QC value less than the lower limit for Na 589.592 Recovery = 87.98%						
Ni 231.604†	191985.8	4.817 mg/L	0.0082	4.817 mg/L	0.0082	0.17%
QC value within limits for Ni 231.604 Recovery = 96.34%						
Pb 220.353†	60630.7	4.875 mg/L	0.0120	4.875 mg/L	0.0120	0.25%
QC value within limits for Pb 220.353 Recovery = 97.50%						
Sb 206.836†	30591.8	4.776 mg/L	0.0215	4.776 mg/L	0.0215	0.45%
QC value within limits for Sb 206.836 Recovery = 95.53%						
Se 196.026†	9695.6	4.820 mg/L	0.0328	4.820 mg/L	0.0328	0.68%
QC value within limits for Se 196.026 Recovery = 96.40%						
Sn 189.927†	41642.1	4.834 mg/L	0.0127	4.834 mg/L	0.0127	0.26%
QC value within limits for Sn 189.927 Recovery = 96.68%						
Ti 337.279†	88319.7	4.658 mg/L	0.0300	4.658 mg/L	0.0300	0.64%
QC value within limits for Ti 337.279 Recovery = 93.17%						
Tl 351.924†	28984.4	2.401 mg/L	0.0187	2.401 mg/L	0.0187	0.78%
QC value within limits for Tl 351.924 Recovery = 96.06%						
V 290.880†	1061854.0	4.778 mg/L	0.0052	4.778 mg/L	0.0052	0.11%
QC value within limits for V 290.880 Recovery = 95.56%						
Zn 206.200†	347521.6	4.844 mg/L	0.0156	4.844 mg/L	0.0156	0.32%
QC value within limits for Zn 206.200 Recovery = 96.87%						
Zr 343.823†	2157366.8	4.792 mg/L	0.0058	4.792 mg/L	0.0058	0.12%
QC Failed. Continue with analysis.						

Sequence No.: 65

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 5:10:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5391341.9	98.12 %	1.469			1.50%
Y radial	204688.3	106.5 %	0.90			0.84%
Ag 328.068†	373.1	0.0013 mg/L	0.00020	0.0013 mg/L	0.00020	15.40%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	0.9	0.0002 mg/L	0.00399	0.0002 mg/L	0.00399	>999.9%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-10.0	-0.0029 mg/L	0.00100	-0.0029 mg/L	0.00100	33.85%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2267.1	-0.1210 mg/L	0.00065	-0.1210 mg/L	0.00065	0.54%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	3.1	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	346.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-16.4	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	51.95%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-18.2	-0.0026 mg/L	0.00134	-0.0026 mg/L	0.00134	51.07%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-12.1	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	139.21%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	14.6	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	25.23%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-25.7	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	5.05%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-960.6	-0.0054 mg/L	0.00031	-0.0054 mg/L	0.00031	5.72%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	4.8	0.0020 mg/L	0.00091	0.0020 mg/L	0.00091	45.07%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	153.3	0.0463 mg/L	0.00847	0.0463 mg/L	0.00847	18.28%

QC value within limits for K 766.490 Recovery = Not calculated
Mg 285.213† 2.5 0.0003 mg/L 0.00046 0.0003 mg/L 0.00046 158.26%
QC value within limits for Mg 285.213 Recovery = Not calculated
Mn 257.610† -1.4 -0.0001 mg/L 0.00019 -0.0001 mg/L 0.00019 342.24%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 23.9 0.0009 mg/L 0.00038 0.0009 mg/L 0.00038 39.63%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† 1774.1 0.1459 mg/L 0.00356 0.1459 mg/L 0.00356 2.44%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -2.2 -0.0001 mg/L 0.00016 -0.0001 mg/L 0.00016 285.22%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 3.1 0.0003 mg/L 0.00053 0.0003 mg/L 0.00053 203.05%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 2.2 0.0004 mg/L 0.00047 0.0004 mg/L 0.00047 127.57%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -1.3 -0.0007 mg/L 0.00323 -0.0007 mg/L 0.00323 484.28%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 9.2 0.0011 mg/L 0.00038 0.0011 mg/L 0.00038 35.86%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† -2.9 -0.0002 mg/L 0.00027 -0.0002 mg/L 0.00027 179.09%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 33.1 0.0028 mg/L 0.00305 0.0028 mg/L 0.00305 109.96%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 712.5 0.0032 mg/L 0.00072 0.0032 mg/L 0.00072 22.35%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -102.6 -0.0014 mg/L 0.00011 -0.0014 mg/L 0.00011 7.96%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -52.7 -0.0001 mg/L 0.00006 -0.0001 mg/L 0.00006 47.90%
All analyte(s) passed QC.

Sequence No.: 66
Sample ID: 24D0735-14
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 78
Date Collected: 4/17/2024 5:16:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5437746.1	98.97 %		0.188			0.19%
Y radial	202687.9	105.5 %		2.17			2.06%
Ag 328.068†	227.1	0.0007 mg/L		0.00015	0.0007 mg/L	0.00015	20.36%
Al 396.153†	186.6	0.0482 mg/L		0.00025	0.0482 mg/L	0.00025	0.53%
As 188.979†	-15.3	-0.0042 mg/L		0.00135	-0.0042 mg/L	0.00135	32.10%
B 208.889†	-2145.2	-0.1145 mg/L		0.00020	-0.1145 mg/L	0.00020	0.17%
Ba 233.527†	1291.7	0.0076 mg/L		0.00004	0.0076 mg/L	0.00004	0.50%
Be 313.107†	-82.8	-0.0002 mg/L		0.00006	-0.0002 mg/L	0.00006	31.42%
Ca 317.933†	109200.4	15.71 mg/L		0.112	15.71 mg/L	0.112	0.71%
Cd 228.802†	-1.5	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	18.79%
Co 228.616†	61.4	0.0006 mg/L		0.00005	0.0006 mg/L	0.00005	7.49%
Cr 267.716†	162.5	0.0012 mg/L		0.00007	0.0012 mg/L	0.00007	6.30%
Cu 327.393†	-583.9	-0.0033 mg/L		0.00012	-0.0033 mg/L	0.00012	3.80%
Fe 238.204†	146.9	0.0619 mg/L		0.00097	0.0619 mg/L	0.00097	1.57%
K 766.490†	2340.0	0.7068 mg/L		0.01011	0.7068 mg/L	0.01011	1.43%
Mg 285.213†	14515.8	1.685 mg/L		0.0077	1.685 mg/L	0.0077	0.46%
Mn 257.610†	4609.0	0.1844 mg/L		0.00391	0.1844 mg/L	0.00391	2.12%
Mo 202.031†	25.2	0.0010 mg/L		0.00010	0.0010 mg/L	0.00010	10.22%
Na 589.592†	53426.7	4.394 mg/L		0.0028	4.394 mg/L	0.0028	0.06%
Ni 231.604†	52.4	0.0013 mg/L		0.00009	0.0013 mg/L	0.00009	6.54%
Pb 220.353†	17.8	0.0014 mg/L		0.00056	0.0014 mg/L	0.00056	39.11%
Sb 206.836†	11.5	0.0017 mg/L		0.00143	0.0017 mg/L	0.00143	83.29%
Se 196.026†	3.8	-0.0001 mg/L		0.00479	-0.0001 mg/L	0.00479	>999.9%
Sn 189.927†	-140.5	-0.0163 mg/L		0.00039	-0.0163 mg/L	0.00039	2.40%
Ti 337.279†	18.3	0.0010 mg/L		0.00020	0.0010 mg/L	0.00020	21.10%
Tl 351.924†	-18.2	-0.0015 mg/L		0.00646	-0.0015 mg/L	0.00646	429.92%
V 290.880†	360.5	0.0016 mg/L		0.00029	0.0016 mg/L	0.00029	17.88%
Zn 206.200†	308.1	0.0039 mg/L		0.00008	0.0039 mg/L	0.00008	2.12%

Zr 343.823† 43.7 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 89.11%
 User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 5:25:16 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 64

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/17/2024 5:25:16 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 110

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5258973.8	95.71 %	0.216			0.23%
Y radial	200278.8	104.2 %	0.25			0.24%
Ag 328.068†	716914.7	2.394 mg/L	0.0137	2.394 mg/L	0.0137	0.57%
QC value within limits for Ag 328.068 Recovery = 95.74%						
Al 396.153†	37642.2	9.483 mg/L	0.0686	9.483 mg/L	0.0686	0.72%
QC value within limits for Al 396.153 Recovery = 94.83%						
As 188.979†	15930.2	4.762 mg/L	0.0230	4.762 mg/L	0.0230	0.48%
QC value within limits for As 188.979 Recovery = 95.24%						
B 208.889†	87619.5	4.433 mg/L	0.0168	4.433 mg/L	0.0168	0.38%
QC value less than the lower limit for B 208.889 Recovery = 88.66%						
Ba 233.527†	819245.5	4.846 mg/L	0.0148	4.846 mg/L	0.0148	0.31%
QC value within limits for Ba 233.527 Recovery = 96.91%						
Be 313.107†	2039695.4	4.597 mg/L	0.0082	4.597 mg/L	0.0082	0.18%
QC value within limits for Be 313.107 Recovery = 91.95%						
Ca 317.933†	64027.5	9.210 mg/L	0.0747	9.210 mg/L	0.0747	0.81%
QC value within limits for Ca 317.933 Recovery = 92.10%						
Cd 228.802†	554221.8	4.780 mg/L	0.0131	4.780 mg/L	0.0131	0.28%
QC value within limits for Cd 228.802 Recovery = 95.59%						
Co 228.616†	488007.2	4.829 mg/L	0.0146	4.829 mg/L	0.0146	0.30%
QC value within limits for Co 228.616 Recovery = 96.58%						
Cr 267.716†	631219.1	4.830 mg/L	0.0150	4.830 mg/L	0.0150	0.31%
QC value within limits for Cr 267.716 Recovery = 96.61%						
Cu 327.393†	853287.6	4.815 mg/L	0.0253	4.815 mg/L	0.0253	0.53%
QC value within limits for Cu 327.393 Recovery = 96.29%						
Fe 238.204†	11066.1	4.684 mg/L	0.0387	4.684 mg/L	0.0387	0.83%
QC value within limits for Fe 238.204 Recovery = 93.68%						
K 766.490†	30262.7	9.141 mg/L	0.0743	9.141 mg/L	0.0743	0.81%
QC value within limits for K 766.490 Recovery = 91.41%						
Mg 285.213†	80209.4	9.310 mg/L	0.0740	9.310 mg/L	0.0740	0.80%
QC value within limits for Mg 285.213 Recovery = 93.10%						
Mn 257.610†	117227.7	4.692 mg/L	0.0404	4.692 mg/L	0.0404	0.86%
QC value within limits for Mn 257.610 Recovery = 93.83%						
Mo 202.031†	120990.8	4.805 mg/L	0.0214	4.805 mg/L	0.0214	0.44%
QC value within limits for Mo 202.031 Recovery = 96.11%						
Na 589.592†	103305.8	8.496 mg/L	0.0368	8.496 mg/L	0.0368	0.43%
QC value less than the lower limit for Na 589.592 Recovery = 84.96%						
Ni 231.604†	193408.8	4.853 mg/L	0.0175	4.853 mg/L	0.0175	0.36%
QC value within limits for Ni 231.604 Recovery = 97.05%						
Pb 220.353†	60228.9	4.843 mg/L	0.0092	4.843 mg/L	0.0092	0.19%
QC value within limits for Pb 220.353 Recovery = 96.85%						
Sb 206.836†	30392.4	4.744 mg/L	0.0124	4.744 mg/L	0.0124	0.26%
QC value within limits for Sb 206.836 Recovery = 94.89%						
Se 196.026†	9602.9	4.774 mg/L	0.0290	4.774 mg/L	0.0290	0.61%

QC value within limits for Se 196.026 Recovery = 95.48%
 Sn 189.927† 41359.0 4.801 mg/L 0.0214 4.801 mg/L 0.0214 0.45%
 QC value within limits for Sn 189.927 Recovery = 96.02%
 Ti 337.279† 88638.6 4.675 mg/L 0.0446 4.675 mg/L 0.0446 0.95%
 QC value within limits for Ti 337.279 Recovery = 93.51%
 Tl 351.924† 28690.2 2.377 mg/L 0.0016 2.377 mg/L 0.0016 0.07%
 QC value within limits for Tl 351.924 Recovery = 95.06%
 V 290.880† 1063410.1 4.785 mg/L 0.0152 4.785 mg/L 0.0152 0.32%
 QC value within limits for V 290.880 Recovery = 95.70%
 Zn 206.200† 349778.7 4.875 mg/L 0.0161 4.875 mg/L 0.0161 0.33%
 QC value within limits for Zn 206.200 Recovery = 97.49%
 Zr 343.823† 2162382.5 4.803 mg/L 0.0186 4.803 mg/L 0.0186 0.39%
 QC Failed. Continue with analysis.

Sequence No.: 65

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 5:31:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5450689.7	99.20 %	0.215			0.22%
Y radial	199134.0	103.6 %	1.16			1.12%
Ag 328.068†	319.7	0.0011 mg/L	0.00015	0.0011 mg/L	0.00015	14.20%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 396.153†	25.8	0.0066 mg/L	0.01023	0.0066 mg/L	0.01023	154.15%
QC value within limits for Al 396.153		Recovery =	Not calculated			
As 188.979†	-7.2	-0.0021 mg/L	0.00220	-0.0021 mg/L	0.00220	103.97%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 208.889†	-2248.7	-0.1200 mg/L	0.00017	-0.1200 mg/L	0.00017	0.14%
QC value within limits for B 208.889		Recovery =	Not calculated			
Ba 233.527†	-4.9	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	203.51%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	-0.5	-0.0000 mg/L	0.00002	-0.0000 mg/L	0.00002	313.40%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 317.933†	6.8	0.0010 mg/L	0.00276	0.0010 mg/L	0.00276	281.70%
QC value within limits for Ca 317.933		Recovery =	Not calculated			
Cd 228.802†	-8.5	-0.0000 mg/L	0.00004	-0.0000 mg/L	0.00004	151.02%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	11.6	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	79.62%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-26.2	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	12.60%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 327.393†	-1000.6	-0.0056 mg/L	0.00020	-0.0056 mg/L	0.00020	3.55%
QC value within limits for Cu 327.393		Recovery =	Not calculated			
Fe 238.204†	1.7	0.0007 mg/L	0.00201	0.0007 mg/L	0.00201	288.55%
QC value within limits for Fe 238.204		Recovery =	Not calculated			
K 766.490†	184.1	0.0556 mg/L	0.01216	0.0556 mg/L	0.01216	21.86%
QC value within limits for K 766.490		Recovery =	Not calculated			
Mg 285.213†	1.0	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	260.70%
QC value within limits for Mg 285.213		Recovery =	Not calculated			
Mn 257.610†	-3.4	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	52.96%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mo 202.031†	25.9	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	25.10%
QC value within limits for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	1451.0	0.1193 mg/L	0.00292	0.1193 mg/L	0.00292	2.45%
QC value within limits for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	-4.0	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	124.20%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
Pb 220.353†	8.0	0.0007 mg/L	0.00106	0.0007 mg/L	0.00106	161.62%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-5.7	-0.0009 mg/L	0.00095	-0.0009 mg/L	0.00095	108.00%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	2.1	0.0011 mg/L	0.00270	0.0011 mg/L	0.00270	256.38%
QC value within limits for Se 196.026		Recovery =	Not calculated			

Sn 189.927†	3.8	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	48.68%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	4.8	0.0003 mg/L	0.00033	0.0003 mg/L	0.00033	131.50%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	0.9	0.0001 mg/L	0.00437	0.0001 mg/L	0.00437	>999.9%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	239.7	0.0011 mg/L	0.00017	0.0011 mg/L	0.00017	15.70%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-96.4	-0.0014 mg/L	0.00008	-0.0014 mg/L	0.00008	5.90%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-127.4	-0.0003 mg/L	0.00012	-0.0003 mg/L	0.00012	41.75%

All analyte(s) passed QC.

Sequence No.: 66
Sample ID: 24D0735-14
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 78
Date Collected: 4/17/2024 5:36:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	11451292.2	208.4 %	8.77			4.21%
Internal Standard Check greater than the upper limit for Y axial. Recovery = 208.4%						
Y radial	230586.9	120.0 %	25.51			21.26%
Saturated within auto integration window (code 4)						
Ag 328.068†	200.7	0.0005 mg/L	0.00091	0.0005 mg/L	0.00091	166.58%
Al 396.153†	94.0	0.0243 mg/L	0.02871	0.0243 mg/L	0.02871	117.98%
As 188.979†	4.2	0.0016 mg/L	0.00070	0.0016 mg/L	0.00070	44.65%
B 208.889†	-2525.5	-0.1347 mg/L	0.00021	-0.1347 mg/L	0.00021	0.16%
Ba 233.527†	-31.9	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	16.70%
Be 313.107†	-271.2	-0.0005 mg/L	0.00075	-0.0005 mg/L	0.00075	149.80%
Ca 317.933†	75571.8	10.87 mg/L	7.871	10.87 mg/L	7.871	72.41%
Cd 228.802†	-87.0	-0.0008 mg/L	0.00001	-0.0008 mg/L	0.00001	1.12%
Co 228.616†	81.7	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	7.57%
Cr 267.716†	-135.6	-0.0011 mg/L	0.00004	-0.0011 mg/L	0.00004	3.74%
Cu 327.393†	-1122.8	-0.0063 mg/L	0.00020	-0.0063 mg/L	0.00020	3.13%
Fe 238.204†	103.6	0.0436 mg/L	0.02121	0.0436 mg/L	0.02121	48.63%
K 766.490†	1524.0	0.4604 mg/L	0.39118	0.4604 mg/L	0.39118	84.97%
Mg 285.213†	9937.2	1.153 mg/L	0.8406	1.153 mg/L	0.8406	72.89%
Mn 257.610†	3191.6	0.1277 mg/L	0.09248	0.1277 mg/L	0.09248	72.41%
Mo 202.031†	-6.2	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	36.52%
Na 589.592†	38073.5	3.131 mg/L	2.2792	3.131 mg/L	2.2792	72.79%
Ni 231.604†	-113.1	-0.0028 mg/L	0.00016	-0.0028 mg/L	0.00016	5.74%
Pb 220.353†	-0.7	-0.0001 mg/L	0.00016	-0.0001 mg/L	0.00016	298.35%
Sb 206.836†	-13.4	-0.0021 mg/L	0.00034	-0.0021 mg/L	0.00034	16.07%
Se 196.026†	3.6	0.0004 mg/L	0.00067	0.0004 mg/L	0.00067	176.11%
Sn 189.927†	13.6	0.0016 mg/L	0.00024	0.0016 mg/L	0.00024	15.14%
Ti 337.279†	-3.3	-0.0002 mg/L	0.00240	-0.0002 mg/L	0.00240	>999.9%
Tl 351.924†	-40.4	-0.0033 mg/L	0.00177	-0.0033 mg/L	0.00177	54.24%
V 290.880†	-5231.2	-0.0235 mg/L	0.00074	-0.0235 mg/L	0.00074	3.14%
Zn 206.200†	-158.0	-0.0025 mg/L	0.00016	-0.0025 mg/L	0.00016	6.33%
Zr 343.823†	-208.4	-0.0005 mg/L	0.00012	-0.0005 mg/L	0.00012	25.21%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 67
Sample ID: 24D0735-15
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 79
Date Collected: 4/17/2024 5:42:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-15

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD

Y axial	5240836.1	95.38 %	0.610			0.64%
Y radial	199576.0	103.9 %	1.33			1.28%
Ag 328.068†	305.6	0.0010 mg/L	0.00033	0.0010 mg/L	0.00033	32.01%
Al 396.153†	171.9	0.0444 mg/L	0.00864	0.0444 mg/L	0.00864	19.45%
As 188.979†	-26.1	-0.0071 mg/L	0.00210	-0.0071 mg/L	0.00210	29.57%
B 208.889†	-1829.9	-0.0977 mg/L	0.00015	-0.0977 mg/L	0.00015	0.15%
Ba 233.527†	7518.3	0.0444 mg/L	0.00050	0.0444 mg/L	0.00050	1.13%
Be 313.107†	-29.3	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	51.20%
Ca 317.933†	225260.7	32.40 mg/L	0.203	32.40 mg/L	0.203	0.63%
Cd 228.802†	436.1	0.0040 mg/L	0.00005	0.0040 mg/L	0.00005	1.37%
Co 228.616†	54.2	0.0005 mg/L	0.00013	0.0005 mg/L	0.00013	24.71%
Cr 267.716†	151.2	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.41%
Cu 327.393†	-603.2	-0.0034 mg/L	0.00022	-0.0034 mg/L	0.00022	6.59%
Fe 238.204†	128.9	0.0543 mg/L	0.00017	0.0543 mg/L	0.00017	0.31%
K 766.490†	10007.4	3.023 mg/L	0.0392	3.023 mg/L	0.0392	1.30%
Mg 285.213†	34709.8	4.030 mg/L	0.0587	4.030 mg/L	0.0587	1.46%
Mn 257.610†	85.9	0.0034 mg/L	0.00014	0.0034 mg/L	0.00014	4.05%
Mo 202.031†	29.3	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012	10.11%
Na 589.592†	606794.9	49.90 mg/L	0.120	49.90 mg/L	0.120	0.24%
Ni 231.604†	57.9	0.0015 mg/L	0.00020	0.0015 mg/L	0.00020	13.93%
Pb 220.353†	22.1	0.0018 mg/L	0.00087	0.0018 mg/L	0.00087	48.82%
Sb 206.836†	21.9	0.0033 mg/L	0.00061	0.0033 mg/L	0.00061	18.44%
Se 196.026†	8.4	0.0000 mg/L	0.00198	0.0000 mg/L	0.00198	>999.9%
Sn 189.927†	-225.8	-0.0262 mg/L	0.00042	-0.0262 mg/L	0.00042	1.61%
Ti 337.279†	29.9	0.0016 mg/L	0.00034	0.0016 mg/L	0.00034	21.31%
Tl 351.924†	-28.3	-0.0024 mg/L	0.00625	-0.0024 mg/L	0.00625	263.42%
V 290.880†	758.1	0.0034 mg/L	0.00067	0.0034 mg/L	0.00067	19.66%
Zn 206.200†	241.2	-0.0009 mg/L	0.00003	-0.0009 mg/L	0.00003	2.82%
Zr 343.823†	194.3	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	36.19%

Sequence No.: 68

Sample ID: 24D0735-16

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 80

Date Collected: 4/17/2024 5:47:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-16

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5280793.0	96.11 %		0.836			0.87%
Y radial	200172.7	104.2 %		1.03			0.99%
Ag 328.068†	401.2	0.0013 mg/L		0.00016	0.0013 mg/L	0.00016	12.39%
Al 396.153†	170.3	0.0441 mg/L		0.00157	0.0441 mg/L	0.00157	3.57%
As 188.979†	-18.9	-0.0050 mg/L		0.00118	-0.0050 mg/L	0.00118	23.58%
B 208.889†	-1764.5	-0.0942 mg/L		0.00006	-0.0942 mg/L	0.00006	0.07%
Ba 233.527†	4238.0	0.0249 mg/L		0.00029	0.0249 mg/L	0.00029	1.15%
Be 313.107†	-56.1	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	14.97%
Ca 317.933†	131375.9	18.90 mg/L		0.154	18.90 mg/L	0.154	0.81%
Cd 228.802†	605.3	0.0055 mg/L		0.00014	0.0055 mg/L	0.00014	2.50%
Co 228.616†	475.8	0.0047 mg/L		0.00005	0.0047 mg/L	0.00005	1.02%
Cr 267.716†	368.5	0.0026 mg/L		0.00009	0.0026 mg/L	0.00009	3.33%
Cu 327.393†	-392.2	-0.0022 mg/L		0.00012	-0.0022 mg/L	0.00012	5.58%
Fe 238.204†	1879.0	0.7910 mg/L		0.00859	0.7910 mg/L	0.00859	1.09%
K 766.490†	6557.3	1.981 mg/L		0.0232	1.981 mg/L	0.0232	1.17%
Mg 285.213†	22973.4	2.668 mg/L		0.0264	2.668 mg/L	0.0264	0.99%
Mn 257.610†	13463.6	0.5388 mg/L		0.00547	0.5388 mg/L	0.00547	1.01%
Mo 202.031†	10.9	0.0004 mg/L		0.00033	0.0004 mg/L	0.00033	76.98%
Na 589.592†	324052.5	26.65 mg/L		0.200	26.65 mg/L	0.200	0.75%
Ni 231.604†	100.3	0.0025 mg/L		0.00029	0.0025 mg/L	0.00029	11.54%
Pb 220.353†	6.6	0.0005 mg/L		0.00049	0.0005 mg/L	0.00049	104.81%
Sb 206.836†	11.0	0.0016 mg/L		0.00014	0.0016 mg/L	0.00014	8.66%
Se 196.026†	6.0	0.0004 mg/L		0.00383	0.0004 mg/L	0.00383	>999.9%
Sn 189.927†	-165.7	-0.0193 mg/L		0.00055	-0.0193 mg/L	0.00055	2.88%
Ti 337.279†	39.6	0.0021 mg/L		0.00028	0.0021 mg/L	0.00028	13.57%
Tl 351.924†	53.9	0.0050 mg/L		0.00470	0.0050 mg/L	0.00470	93.48%
V 290.880†	780.0	0.0035 mg/L		0.00035	0.0035 mg/L	0.00035	10.22%
Zn 206.200†	4519.4	0.0604 mg/L		0.00067	0.0604 mg/L	0.00067	1.12%

Zr 343.823† 99.2 0.0002 mg/L 0.00006 0.0002 mg/L 0.00006 28.21%

Sequence No.: 69

Sample ID: 24D0735-17

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 81

Date Collected: 4/17/2024 5:53:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-17

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5287218.6	96.23	%	0.733			0.76%
Y radial	197291.0	102.7	%	1.83			1.78%
Ag 328.068†	318.5	0.0011	mg/L	0.00033	0.0011 mg/L	0.00033	28.82%
Al 396.153†	3474.2	0.8990	mg/L	0.01802	0.8990 mg/L	0.01802	2.00%
As 188.979†	-26.8	-0.0054	mg/L	0.00088	-0.0054 mg/L	0.00088	16.25%
B 208.889†	-1822.7	-0.0973	mg/L	0.00017	-0.0973 mg/L	0.00017	0.18%
Ba 233.527†	8431.3	0.0491	mg/L	0.00042	0.0491 mg/L	0.00042	0.86%
Be 313.107†	-34.3	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	18.90%
Ca 317.933†	221130.5	31.81	mg/L	0.151	31.81 mg/L	0.151	0.47%
Cd 228.802†	59147.7	0.5196	mg/L	0.00493	0.5196 mg/L	0.00493	0.95%
Co 228.616†	602.3	0.0059	mg/L	0.00007	0.0059 mg/L	0.00007	1.23%
Cr 267.716†	498.6	0.0039	mg/L	0.00005	0.0039 mg/L	0.00005	1.32%
Cu 327.393†	5656.7	0.0318	mg/L	0.00010	0.0318 mg/L	0.00010	0.31%
Fe 238.204†	12112.1	5.099	mg/L	0.0948	5.099 mg/L	0.0948	1.86%
K 766.490†	11146.0	3.367	mg/L	0.0152	3.367 mg/L	0.0152	0.45%
Mg 285.213†	47292.0	5.498	mg/L	0.0202	5.498 mg/L	0.0202	0.37%
Mn 257.610†	7010.0	0.2809	mg/L	0.00498	0.2809 mg/L	0.00498	1.77%
Mo 202.031†	31.0	0.0012	mg/L	0.00017	0.0012 mg/L	0.00017	13.88%
Na 589.592†	605695.2	49.81	mg/L	0.181	49.81 mg/L	0.181	0.36%
Ni 231.604†	277.7	0.0070	mg/L	0.00037	0.0070 mg/L	0.00037	5.37%
Pb 220.353†	167.4	0.0133	mg/L	0.00054	0.0133 mg/L	0.00054	4.02%
Sb 206.836†	21.6	0.0034	mg/L	0.00037	0.0034 mg/L	0.00037	10.73%
Se 196.026†	10.4	0.0009	mg/L	0.00249	0.0009 mg/L	0.00249	278.37%
Sn 189.927†	-221.3	-0.0257	mg/L	0.00019	-0.0257 mg/L	0.00019	0.72%
Ti 337.279†	758.0	0.0400	mg/L	0.00081	0.0400 mg/L	0.00081	2.01%
Tl 351.924†	-10.1	0.0023	mg/L	0.00497	0.0023 mg/L	0.00497	216.80%
V 290.880†	1876.1	0.0081	mg/L	0.00061	0.0081 mg/L	0.00061	7.55%
Zn 206.200†	7728.5	0.1026	mg/L	0.00071	0.1026 mg/L	0.00071	0.69%
Zr 343.823†	376.5	0.0007	mg/L	0.00029	0.0007 mg/L	0.00029	40.86%

Sequence No.: 70

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/17/2024 5:58:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5364701.0	97.64	%	1.672			1.71%
Y radial	199621.5	103.9	%	2.08			2.00%
Ag 328.068†	415.2	0.0014	mg/L	0.00010	0.0014 mg/L	0.00010	7.27%
Al 396.153†	14.5	0.0037	mg/L	0.00142	0.0037 mg/L	0.00142	37.85%
As 188.979†	-13.2	-0.0039	mg/L	0.00234	-0.0039 mg/L	0.00234	59.86%
B 208.889†	-2393.4	-0.1277	mg/L	0.00059	-0.1277 mg/L	0.00059	0.47%
Ba 233.527†	5.7	0.0000	mg/L	0.00001	0.0000 mg/L	0.00001	21.41%
Be 313.107†	-36.5	-0.0001	mg/L	0.00003	-0.0001 mg/L	0.00003	32.27%
Ca 317.933†	36.0	0.0052	mg/L	0.00361	0.0052 mg/L	0.00361	69.77%
Cd 228.802†	-7.5	0.0000	mg/L	0.00006	0.0000 mg/L	0.00006	260.98%
Co 228.616†	13.0	0.0001	mg/L	0.00005	0.0001 mg/L	0.00005	35.21%
Cr 267.716†	-19.5	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	15.00%
Cu 327.393†	-987.5	-0.0056	mg/L	0.00032	-0.0056 mg/L	0.00032	5.68%
Fe 238.204†	3.8	0.0016	mg/L	0.00173	0.0016 mg/L	0.00173	107.95%

K 766.490†	138.1	0.0417 mg/L	0.02291	0.0417 mg/L	0.02291	54.92%
Mg 285.213†	13.4	0.0016 mg/L	0.00014	0.0016 mg/L	0.00014	8.98%
Mn 257.610†	-2.4	-0.0001 mg/L	0.00029	-0.0001 mg/L	0.00029	309.66%
Mo 202.031†	3.0	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	61.74%
Na 589.592†	1558.4	0.1282 mg/L	0.00731	0.1282 mg/L	0.00731	5.71%
Ni 231.604†	-16.0	-0.0004 mg/L	0.00019	-0.0004 mg/L	0.00019	47.34%
Pb 220.353†	-8.1	-0.0006 mg/L	0.00051	-0.0006 mg/L	0.00051	79.14%
Sb 206.836†	2.1	0.0003 mg/L	0.00042	0.0003 mg/L	0.00042	122.13%
Se 196.026†	0.9	0.0004 mg/L	0.00067	0.0004 mg/L	0.00067	155.51%
Sn 189.927†	5.0	0.0006 mg/L	0.00021	0.0006 mg/L	0.00021	35.84%
Ti 337.279†	-2.2	-0.0001 mg/L	0.00037	-0.0001 mg/L	0.00037	323.75%
Tl 351.924†	3.5	0.0003 mg/L	0.00871	0.0003 mg/L	0.00871	>999.9%
V 290.880†	300.7	0.0014 mg/L	0.00045	0.0014 mg/L	0.00045	33.14%
Zn 206.200†	-141.3	-0.0020 mg/L	0.00006	-0.0020 mg/L	0.00006	2.90%
Zr 343.823†	-83.1	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	48.10%

Sequence No.: 71

Sample ID: B371700-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 82

Date Collected: 4/17/2024 6:04:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5441540.3	99.03 %		0.874				0.88%
Y radial	198000.3	103.1 %		0.15				0.15%
Ag 328.068†	405.5	0.0014 mg/L		0.00006	0.0014 mg/L		0.00006	4.39%
Al 396.153†	21.9	0.0056 mg/L		0.00484	0.0056 mg/L		0.00484	86.10%
As 188.979†	-30.4	-0.0090 mg/L		0.00159	-0.0090 mg/L		0.00159	17.63%
B 208.889†	-2327.9	-0.1242 mg/L		0.00015	-0.1242 mg/L		0.00015	0.12%
Ba 233.527†	-8.4	-0.0001 mg/L		0.00005	-0.0001 mg/L		0.00005	88.61%
Be 313.107†	-109.6	-0.0002 mg/L		0.00003	-0.0002 mg/L		0.00003	12.93%
Ca 317.933†	237.0	0.0341 mg/L		0.00143	0.0341 mg/L		0.00143	4.18%
Cd 228.802†	38.1	0.0005 mg/L		0.00005	0.0005 mg/L		0.00005	8.59%
Co 228.616†	37.5	0.0004 mg/L		0.00007	0.0004 mg/L		0.00007	19.40%
Cr 267.716†	59.4	0.0005 mg/L		0.00005	0.0005 mg/L		0.00005	10.73%
Cu 327.393†	9259.0	0.0521 mg/L		0.00481	0.0521 mg/L		0.00481	9.23%
Fe 238.204†	44.8	0.0189 mg/L		0.00183	0.0189 mg/L		0.00183	9.71%
K 766.490†	200.2	0.0605 mg/L		0.02613	0.0605 mg/L		0.02613	43.20%
Mg 285.213†	52.0	0.0061 mg/L		0.00025	0.0061 mg/L		0.00025	4.17%
Mn 257.610†	54.6	0.0022 mg/L		0.00032	0.0022 mg/L		0.00032	14.59%
Mo 202.031†	22.2	0.0009 mg/L		0.00003	0.0009 mg/L		0.00003	2.95%
Na 589.592†	1795.0	0.1476 mg/L		0.00956	0.1476 mg/L		0.00956	6.48%
Ni 231.604†	107.9	0.0027 mg/L		0.00022	0.0027 mg/L		0.00022	8.29%
Pb 220.353†	-27.9	-0.0023 mg/L		0.00037	-0.0023 mg/L		0.00037	15.98%
Sb 206.836†	22.4	0.0037 mg/L		0.00116	0.0037 mg/L		0.00116	31.15%
Se 196.026†	-1.9	-0.0009 mg/L		0.00102	-0.0009 mg/L		0.00102	108.76%
Sn 189.927†	283.8	0.0330 mg/L		0.00070	0.0330 mg/L		0.00070	2.12%
Ti 337.279†	24.1	0.0013 mg/L		0.00020	0.0013 mg/L		0.00020	15.97%
Tl 351.924†	9.7	0.0008 mg/L		0.00110	0.0008 mg/L		0.00110	133.55%
V 290.880†	77.7	0.0003 mg/L		0.00032	0.0003 mg/L		0.00032	92.26%
Zn 206.200†	-33.0	-0.0005 mg/L		0.00008	-0.0005 mg/L		0.00008	17.86%
Zr 343.823†	391.5	0.0009 mg/L		0.00014	0.0009 mg/L		0.00014	16.55%

Sequence No.: 72

Sample ID: B371700-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 83

Date Collected: 4/17/2024 6:09:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD

Y axial	5312917.3	96.69 %	0.836			0.86%
Y radial	198388.2	103.3 %	0.45			0.44%
Ag 328.068†	240012.3	0.8120 mg/L	0.00441	0.8120 mg/L	0.00441	0.54%
Al 396.153†	207965.7	53.75 mg/L	0.225	53.75 mg/L	0.225	0.42%
As 188.979†	9630.0	2.912 mg/L	0.0255	2.912 mg/L	0.0255	0.88%
B 208.889†	37293.7	1.917 mg/L	0.0101	1.917 mg/L	0.0101	0.53%
Ba 233.527†	498641.3	2.939 mg/L	0.0151	2.939 mg/L	0.0151	0.51%
Be 313.107†	780791.1	1.763 mg/L	0.0082	1.763 mg/L	0.0082	0.47%
Ca 317.933†	359212.2	51.67 mg/L	0.260	51.67 mg/L	0.260	0.50%
Cd 228.802†	246639.3	2.106 mg/L	0.0116	2.106 mg/L	0.0116	0.55%
Co 228.616†	84090.0	0.8275 mg/L	0.00351	0.8275 mg/L	0.00351	0.42%
Cr 267.716†	247664.9	1.893 mg/L	0.0081	1.893 mg/L	0.0081	0.43%
Cu 327.393†	388912.7	2.187 mg/L	0.0047	2.187 mg/L	0.0047	0.22%
Fe 238.204†	131275.9	55.27 mg/L	0.242	55.27 mg/L	0.242	0.44%
K 766.490†	36881.2	11.14 mg/L	0.050	11.14 mg/L	0.050	0.45%
Mg 285.213†	130721.1	15.24 mg/L	0.042	15.24 mg/L	0.042	0.28%
Mn 257.610†	131799.9	5.279 mg/L	0.0215	5.279 mg/L	0.0215	0.41%
Mo 202.031†	36510.1	1.450 mg/L	0.0133	1.450 mg/L	0.0133	0.92%
Na 589.592†	52841.9	4.346 mg/L	0.0116	4.346 mg/L	0.0116	0.27%
Ni 231.604†	125499.0	3.148 mg/L	0.0160	3.148 mg/L	0.0160	0.51%
Pb 220.353†	10913.5	0.8803 mg/L	0.00819	0.8803 mg/L	0.00819	0.93%
Sb 206.836†	6633.8	1.020 mg/L	0.0111	1.020 mg/L	0.0111	1.09%
Se 196.026†	3249.8	1.608 mg/L	0.0142	1.608 mg/L	0.0142	0.88%
Sn 189.927†	6246.1	0.7258 mg/L	0.00600	0.7258 mg/L	0.00600	0.83%
Ti 337.279†	57429.1	3.031 mg/L	0.0117	3.031 mg/L	0.0117	0.39%
Tl 351.924†	23384.7	1.990 mg/L	0.0204	1.990 mg/L	0.0204	1.03%
V 290.880†	239173.6	1.073 mg/L	0.0046	1.073 mg/L	0.0046	0.42%
Zn 206.200†	119748.2	1.667 mg/L	0.0100	1.667 mg/L	0.0100	0.60%
Zr 343.823†	29771.3	0.0648 mg/L	0.00079	0.0648 mg/L	0.00079	1.22%

Sequence No.: 73

Sample ID: B371700-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 84

Date Collected: 4/17/2024 6:14:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5344945.2	97.28 %		0.871			0.90%
Y radial	196776.3	102.4 %		0.84			0.82%
Ag 328.068†	222635.9	0.7531 mg/L		0.00242	0.7531 mg/L	0.00242	0.32%
Al 396.153†	188049.0	48.60 mg/L		0.160	48.60 mg/L	0.160	0.33%
As 188.979†	8829.1	2.671 mg/L		0.0181	2.671 mg/L	0.0181	0.68%
B 208.889†	34696.3	1.784 mg/L		0.0041	1.784 mg/L	0.0041	0.23%
Ba 233.527†	483343.7	2.849 mg/L		0.0130	2.849 mg/L	0.0130	0.46%
Be 313.107†	739513.8	1.670 mg/L		0.0074	1.670 mg/L	0.0074	0.44%
Ca 317.933†	328738.9	47.29 mg/L		0.384	47.29 mg/L	0.384	0.81%
Cd 228.802†	229359.2	1.960 mg/L		0.0065	1.960 mg/L	0.0065	0.33%
Co 228.616†	79008.7	0.7773 mg/L		0.00309	0.7773 mg/L	0.00309	0.40%
Cr 267.716†	226358.3	1.730 mg/L		0.0089	1.730 mg/L	0.0089	0.52%
Cu 327.393†	359365.4	2.021 mg/L		0.0172	2.021 mg/L	0.0172	0.85%
Fe 238.204†	119624.8	50.36 mg/L		0.305	50.36 mg/L	0.305	0.61%
K 766.490†	34730.2	10.49 mg/L		0.045	10.49 mg/L	0.045	0.43%
Mg 285.213†	120460.1	14.04 mg/L		0.076	14.04 mg/L	0.076	0.54%
Mn 257.610†	133344.4	5.340 mg/L		0.0335	5.340 mg/L	0.0335	0.63%
Mo 202.031†	33320.7	1.323 mg/L		0.0104	1.323 mg/L	0.0104	0.78%
Na 589.592†	53157.4	4.372 mg/L		0.0096	4.372 mg/L	0.0096	0.22%
Ni 231.604†	117528.7	2.948 mg/L		0.0187	2.948 mg/L	0.0187	0.63%
Pb 220.353†	10314.9	0.8318 mg/L		0.00667	0.8318 mg/L	0.00667	0.80%
Sb 206.836†	6196.8	0.9536 mg/L		0.00715	0.9536 mg/L	0.00715	0.75%
Se 196.026†	2977.9	1.473 mg/L		0.0071	1.473 mg/L	0.0071	0.48%
Sn 189.927†	5746.7	0.6677 mg/L		0.00595	0.6677 mg/L	0.00595	0.89%
Ti 337.279†	54865.1	2.895 mg/L		0.0174	2.895 mg/L	0.0174	0.60%
Tl 351.924†	21344.5	1.816 mg/L		0.0133	1.816 mg/L	0.0133	0.73%
V 290.880†	219183.9	0.9834 mg/L		0.00328	0.9834 mg/L	0.00328	0.33%
Zn 206.200†	112024.1	1.560 mg/L		0.0073	1.560 mg/L	0.0073	0.47%

Zr 343.823† 27117.1 0.0590 mg/L 0.00044 0.0590 mg/L 0.00044 0.75%

Sequence No.: 74

Sample ID: B371700-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 85

Date Collected: 4/17/2024 6:19:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5273526.2	95.98	%	0.691			0.72%
Y radial	201411.5	104.8	%	0.65			0.62%
Ag 328.068†	128262.5	0.4415	mg/L	0.00206	0.4415 mg/L	0.00206	0.47%
Al 396.153†	987743.9	255.5	mg/L	3.49	255.5 mg/L	3.49	1.36%
As 188.979†	963.5	0.4780	mg/L	0.00251	0.4780 mg/L	0.00251	0.53%
B 208.889†	20651.7	1.081	mg/L	0.0092	1.081 mg/L	0.0092	0.85%
Ba 233.527†	422303.1	2.444	mg/L	0.0163	2.444 mg/L	0.0163	0.67%
Be 313.107†	208115.5	0.4654	mg/L	0.00082	0.4654 mg/L	0.00082	0.18%
Ca 317.933†	385127.0	55.40	mg/L	0.125	55.40 mg/L	0.125	0.23%
Cd 228.802†	52386.3	0.4597	mg/L	0.00249	0.4597 mg/L	0.00249	0.54%
Co 228.616†	68752.9	0.6642	mg/L	0.00311	0.6642 mg/L	0.00311	0.47%
Cr 267.716†	96886.4	0.7359	mg/L	0.00588	0.7359 mg/L	0.00588	0.80%
Cu 327.393†	299761.8	1.686	mg/L	0.0111	1.686 mg/L	0.0111	0.66%
Fe 238.204†	927836.3	390.6	mg/L	0.64	390.6 mg/L	0.64	0.16%
K 766.490†	103845.0	31.37	mg/L	0.047	31.37 mg/L	0.047	0.15%
Mg 285.213†	908482.6	106.0	mg/L	0.13	106.0 mg/L	0.13	0.12%
Mn 257.610†	341346.3	13.69	mg/L	0.018	13.69 mg/L	0.018	0.13%
Mo 202.031†	10222.3	0.4060	mg/L	0.00318	0.4060 mg/L	0.00318	0.78%
Na 589.592†	203192.4	16.71	mg/L	0.045	16.71 mg/L	0.045	0.27%
Ni 231.604†	29974.2	0.7520	mg/L	0.00621	0.7520 mg/L	0.00621	0.83%
Pb 220.353†	224108.3	18.02	mg/L	0.127	18.02 mg/L	0.127	0.71%
Sb 206.836†	733.9	0.1255	mg/L	0.00197	0.1255 mg/L	0.00197	1.57%
Se 196.026†	747.9	0.3543	mg/L	0.00674	0.3543 mg/L	0.00674	1.90%
Sn 189.927†	3229.5	0.3752	mg/L	0.00240	0.3752 mg/L	0.00240	0.64%
Ti 337.279†	149278.3	7.878	mg/L	0.0088	7.878 mg/L	0.0088	0.11%
Tl 351.924†	2332.8	0.4180	mg/L	0.00195	0.4180 mg/L	0.00195	0.47%
V 290.880†	277945.9	1.226	mg/L	0.0073	1.226 mg/L	0.0073	0.60%
Zn 206.200†	156063.4	2.139	mg/L	0.0193	2.139 mg/L	0.0193	0.90%
Zr 343.823†	49864.2	0.1014	mg/L	0.00092	0.1014 mg/L	0.00092	0.91%

Sequence No.: 75

Sample ID: B371700-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 86

Date Collected: 4/17/2024 6:25:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5310729.5	96.65	%	0.684			0.71%
Y radial	201757.1	105.0	%	0.68			0.65%
Ag 328.068†	529279.3	1.797	mg/L	0.0086	1.797 mg/L	0.0086	0.48%
Al 396.153†	908987.9	235.1	mg/L	0.88	235.1 mg/L	0.88	0.37%
As 188.979†	5056.4	1.698	mg/L	0.0062	1.698 mg/L	0.0062	0.37%
B 208.889†	63723.2	3.314	mg/L	0.0306	3.314 mg/L	0.0306	0.92%
Ba 233.527†	630130.0	3.670	mg/L	0.0200	3.670 mg/L	0.0200	0.55%
Be 313.107†	760338.5	1.710	mg/L	0.0069	1.710 mg/L	0.0069	0.41%
Ca 317.933†	439378.8	63.20	mg/L	0.269	63.20 mg/L	0.269	0.43%
Cd 228.802†	199372.1	1.728	mg/L	0.0086	1.728 mg/L	0.0086	0.50%
Co 228.616†	189324.6	1.860	mg/L	0.0095	1.860 mg/L	0.0095	0.51%
Cr 267.716†	262229.3	2.000	mg/L	0.0095	2.000 mg/L	0.0095	0.47%
Cu 327.393†	786649.8	4.423	mg/L	0.0131	4.423 mg/L	0.0131	0.30%
Fe 238.204†	990693.2	417.1	mg/L	1.89	417.1 mg/L	1.89	0.45%

K 766.490†	141684.1	42.80 mg/L	0.120	42.80 mg/L	0.120	0.28%
Mg 285.213†	931546.6	108.7 mg/L	0.40	108.7 mg/L	0.40	0.37%
Mn 257.610†	401260.1	16.09 mg/L	0.060	16.09 mg/L	0.060	0.37%
Mo 202.031†	42997.0	1.708 mg/L	0.0097	1.708 mg/L	0.0097	0.57%
Na 589.592†	298556.8	24.55 mg/L	0.093	24.55 mg/L	0.093	0.38%
Ni 231.604†	78124.8	1.960 mg/L	0.0089	1.960 mg/L	0.0089	0.46%
Pb 220.353†	27865.2	2.248 mg/L	0.0154	2.248 mg/L	0.0154	0.68%
Sb 206.836†	10614.5	1.671 mg/L	0.0068	1.671 mg/L	0.0068	0.41%
Se 196.026†	3327.6	1.637 mg/L	0.0057	1.637 mg/L	0.0057	0.35%
Sn 189.927†	13654.1	1.587 mg/L	0.0097	1.587 mg/L	0.0097	0.61%
Ti 337.279†	153736.7	8.113 mg/L	0.0358	8.113 mg/L	0.0358	0.44%
Tl 351.924†	18143.4	1.761 mg/L	0.0060	1.761 mg/L	0.0060	0.34%
V 290.880†	552349.3	2.458 mg/L	0.0156	2.458 mg/L	0.0156	0.64%
Zn 206.200†	329799.8	4.548 mg/L	0.0235	4.548 mg/L	0.0235	0.52%
Zr 343.823†	53729.4	0.1094 mg/L	0.00041	0.1094 mg/L	0.00041	0.37%

Sequence No.: 76

Sample ID: B371700-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 87

Date Collected: 4/17/2024 6:30:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	5344950.3	97.28 %		0.947			0.97%
Y radial	197167.7	102.6 %		0.70			0.68%
Ag 328.068†	-1335.5	-0.0027 mg/L		0.00021	-0.0027 mg/L	0.00021	7.70%
Al 396.153†	191977.2	49.67 mg/L		0.117	49.67 mg/L	0.117	0.23%
As 188.979†	-92.0	0.0157 mg/L		0.00372	0.0157 mg/L	0.00372	23.66%
B 208.889†	-217.4	-0.0115 mg/L		0.00148	-0.0115 mg/L	0.00148	12.94%
Ba 233.527†	74402.3	0.4265 mg/L		0.00508	0.4265 mg/L	0.00508	1.19%
Be 313.107†	1545.4	0.0027 mg/L		0.00003	0.0027 mg/L	0.00003	1.14%
Ca 317.933†	76396.1	10.99 mg/L		0.039	10.99 mg/L	0.039	0.36%
Cd 228.802†	-56.4	0.0013 mg/L		0.00011	0.0013 mg/L	0.00011	8.19%
Co 228.616†	5364.5	0.0501 mg/L		0.00053	0.0501 mg/L	0.00053	1.07%
Cr 267.716†	8457.7	0.0634 mg/L		0.00079	0.0634 mg/L	0.00079	1.24%
Cu 327.393†	24909.8	0.1401 mg/L		0.00144	0.1401 mg/L	0.00144	1.03%
Fe 238.204†	234099.5	98.55 mg/L		0.349	98.55 mg/L	0.349	0.35%
K 766.490†	21122.2	6.380 mg/L		0.0621	6.380 mg/L	0.0621	0.97%
Mg 285.213†	184468.8	21.54 mg/L		0.053	21.54 mg/L	0.053	0.25%
Mn 257.610†	80964.3	3.248 mg/L		0.0104	3.248 mg/L	0.0104	0.32%
Mo 202.031†	-66.8	-0.0027 mg/L		0.00030	-0.0027 mg/L	0.00030	11.48%
Na 589.592†	33725.4	2.774 mg/L		0.0091	2.774 mg/L	0.0091	0.33%
Ni 231.604†	3189.5	0.0801 mg/L		0.00089	0.0801 mg/L	0.00089	1.12%
Pb 220.353†	1905.4	0.1555 mg/L		0.00135	0.1555 mg/L	0.00135	0.87%
Sb 206.836†	-14.3	0.0014 mg/L		0.00060	0.0014 mg/L	0.00060	42.45%
Se 196.026†	11.0	0.0024 mg/L		0.00489	0.0024 mg/L	0.00489	201.10%
Sn 189.927†	-128.6	-0.0150 mg/L		0.00024	-0.0150 mg/L	0.00024	1.61%
Ti 337.279†	26439.5	1.395 mg/L		0.0044	1.395 mg/L	0.0044	0.31%
Tl 351.924†	-635.8	0.0051 mg/L		0.00066	0.0051 mg/L	0.00066	13.07%
V 290.880†	35458.4	0.1530 mg/L		0.00196	0.1530 mg/L	0.00196	1.28%
Zn 206.200†	21713.8	0.2945 mg/L		0.00412	0.2945 mg/L	0.00412	1.40%
Zr 343.823†	10662.6	0.0213 mg/L		0.00034	0.0213 mg/L	0.00034	1.59%

Sequence No.: 77

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 6:35:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y axial	5235913.7	95.29 %	0.143			0.15%
Y radial	197995.7	103.0 %	0.56			0.55%
Ag 328.068†	712197.5	2.378 mg/L	0.0135	2.378 mg/L	0.0135	0.57%
QC value within limits for Ag 328.068		Recovery = 95.11%				
Al 396.153†	38321.0	9.658 mg/L	0.0158	9.658 mg/L	0.0158	0.16%
QC value within limits for Al 396.153		Recovery = 96.58%				
As 188.979†	15737.6	4.704 mg/L	0.0380	4.704 mg/L	0.0380	0.81%
QC value within limits for As 188.979		Recovery = 94.08%				
B 208.889†	86753.5	4.386 mg/L	0.0178	4.386 mg/L	0.0178	0.41%
QC value less than the lower limit for B 208.889		Recovery = 87.72%				
Ba 233.527†	820862.5	4.855 mg/L	0.0128	4.855 mg/L	0.0128	0.26%
QC value within limits for Ba 233.527		Recovery = 97.10%				
Be 313.107†	1999070.3	4.505 mg/L	0.0208	4.505 mg/L	0.0208	0.46%
QC value within limits for Be 313.107		Recovery = 90.10%				
Ca 317.933†	64633.7	9.297 mg/L	0.0381	9.297 mg/L	0.0381	0.41%
QC value within limits for Ca 317.933		Recovery = 92.97%				
Cd 228.802†	556894.9	4.804 mg/L	0.0133	4.804 mg/L	0.0133	0.28%
QC value within limits for Cd 228.802		Recovery = 96.09%				
Co 228.616†	488040.1	4.829 mg/L	0.0147	4.829 mg/L	0.0147	0.30%
QC value within limits for Co 228.616		Recovery = 96.59%				
Cr 267.716†	632098.2	4.837 mg/L	0.0087	4.837 mg/L	0.0087	0.18%
QC value within limits for Cr 267.716		Recovery = 96.74%				
Cu 327.393†	839748.1	4.739 mg/L	0.0097	4.739 mg/L	0.0097	0.21%
QC value within limits for Cu 327.393		Recovery = 94.77%				
Fe 238.204†	11455.1	4.848 mg/L	0.0084	4.848 mg/L	0.0084	0.17%
QC value within limits for Fe 238.204		Recovery = 96.96%				
K 766.490†	29549.8	8.926 mg/L	0.0072	8.926 mg/L	0.0072	0.08%
QC value less than the lower limit for K 766.490		Recovery = 89.26%				
Mg 285.213†	81427.0	9.452 mg/L	0.0208	9.452 mg/L	0.0208	0.22%
QC value within limits for Mg 285.213		Recovery = 94.52%				
Mn 257.610†	120157.4	4.809 mg/L	0.0120	4.809 mg/L	0.0120	0.25%
QC value within limits for Mn 257.610		Recovery = 96.18%				
Mo 202.031†	121250.9	4.816 mg/L	0.0151	4.816 mg/L	0.0151	0.31%
QC value within limits for Mo 202.031		Recovery = 96.31%				
Na 589.592†	92811.4	7.633 mg/L	0.0342	7.633 mg/L	0.0342	0.45%
QC value less than the lower limit for Na 589.592		Recovery = 76.33%				
Ni 231.604†	192777.9	4.837 mg/L	0.0100	4.837 mg/L	0.0100	0.21%
QC value within limits for Ni 231.604		Recovery = 96.74%				
Pb 220.353†	60140.6	4.836 mg/L	0.0293	4.836 mg/L	0.0293	0.61%
QC value within limits for Pb 220.353		Recovery = 96.71%				
Sb 206.836†	30040.7	4.689 mg/L	0.0333	4.689 mg/L	0.0333	0.71%
QC value within limits for Sb 206.836		Recovery = 93.78%				
Se 196.026†	9448.3	4.697 mg/L	0.0308	4.697 mg/L	0.0308	0.66%
QC value within limits for Se 196.026		Recovery = 93.94%				
Sn 189.927†	41460.7	4.813 mg/L	0.0263	4.813 mg/L	0.0263	0.55%
QC value within limits for Sn 189.927		Recovery = 96.26%				
Ti 337.279†	88429.2	4.664 mg/L	0.0152	4.664 mg/L	0.0152	0.33%
QC value within limits for Ti 337.279		Recovery = 93.28%				
Tl 351.924†	28402.4	2.352 mg/L	0.0175	2.352 mg/L	0.0175	0.75%
QC value within limits for Tl 351.924		Recovery = 94.10%				
V 290.880†	1069777.5	4.814 mg/L	0.0178	4.814 mg/L	0.0178	0.37%
QC value within limits for V 290.880		Recovery = 96.28%				
Zn 206.200†	350325.9	4.883 mg/L	0.0074	4.883 mg/L	0.0074	0.15%
QC value within limits for Zn 206.200		Recovery = 97.65%				
Zr 343.823†	2162880.5	4.804 mg/L	0.0150	4.804 mg/L	0.0150	0.31%
QC Failed. Continue with analysis.						

Sequence No.: 78

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 6:41:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5366977.1	97.68 %	2.310			2.36%

Y radial	196836.3	102.4 %	0.84		0.82%
Ag 328.068†	592.3	0.0020 mg/L	0.00005	0.0020 mg/L	0.00005 2.36%
QC value within limits for Ag 328.068	Recovery = Not calculated				
Al 396.153†	12.8	0.0033 mg/L	0.00655	0.0033 mg/L	0.00655 200.52%
QC value within limits for Al 396.153	Recovery = Not calculated				
As 188.979†	-14.5	-0.0043 mg/L	0.00054	-0.0043 mg/L	0.00054 12.50%
QC value within limits for As 188.979	Recovery = Not calculated				
B 208.889†	-2112.9	-0.1128 mg/L	0.00044	-0.1128 mg/L	0.00044 0.39%
QC value within limits for B 208.889	Recovery = Not calculated				
Ba 233.527†	-1.6	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006 878.35%
QC value within limits for Ba 233.527	Recovery = Not calculated				
Be 313.107†	-6.1	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003 125.54%
QC value within limits for Be 313.107	Recovery = Not calculated				
Ca 317.933†	0.8	0.0001 mg/L	0.00159	0.0001 mg/L	0.00159 >999.9%
QC value within limits for Ca 317.933	Recovery = Not calculated				
Cd 228.802†	-4.7	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006 105.37%
QC value within limits for Cd 228.802	Recovery = Not calculated				
Co 228.616†	12.9	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003 26.85%
QC value within limits for Co 228.616	Recovery = Not calculated				
Cr 267.716†	-9.5	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006 85.00%
QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu 327.393†	-1090.9	-0.0061 mg/L	0.00029	-0.0061 mg/L	0.00029 4.76%
QC value within limits for Cu 327.393	Recovery = Not calculated				
Fe 238.204†	0.5	0.0002 mg/L	0.00106	0.0002 mg/L	0.00106 489.77%
QC value within limits for Fe 238.204	Recovery = Not calculated				
K 766.490†	188.6	0.0570 mg/L	0.00588	0.0570 mg/L	0.00588 10.33%
QC value within limits for K 766.490	Recovery = Not calculated				
Mg 285.213†	5.1	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009 14.66%
QC value within limits for Mg 285.213	Recovery = Not calculated				
Mn 257.610†	0.2	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016 >999.9%
QC value within limits for Mn 257.610	Recovery = Not calculated				
Mo 202.031†	29.9	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006 4.73%
QC value within limits for Mo 202.031	Recovery = Not calculated				
Na 589.592†	881.7	0.0725 mg/L	0.00263	0.0725 mg/L	0.00263 3.63%
QC value within limits for Na 589.592	Recovery = Not calculated				
Ni 231.604†	-0.8	-0.0000 mg/L	0.00023	-0.0000 mg/L	0.00023 987.83%
QC value within limits for Ni 231.604	Recovery = Not calculated				
Pb 220.353†	13.0	0.0011 mg/L	0.00051	0.0011 mg/L	0.00051 48.21%
QC value within limits for Pb 220.353	Recovery = Not calculated				
Sb 206.836†	2.6	0.0004 mg/L	0.00068	0.0004 mg/L	0.00068 157.03%
QC value within limits for Sb 206.836	Recovery = Not calculated				
Se 196.026†	0.1	0.0001 mg/L	0.00131	0.0001 mg/L	0.00131 >999.9%
QC value within limits for Se 196.026	Recovery = Not calculated				
Sn 189.927†	7.9	0.0009 mg/L	0.00019	0.0009 mg/L	0.00019 20.10%
QC value within limits for Sn 189.927	Recovery = Not calculated				
Ti 337.279†	13.0	0.0007 mg/L	0.00036	0.0007 mg/L	0.00036 52.34%
QC value within limits for Ti 337.279	Recovery = Not calculated				
Tl 351.924†	55.4	0.0047 mg/L	0.00425	0.0047 mg/L	0.00425 91.42%
QC value within limits for Tl 351.924	Recovery = Not calculated				
V 290.880†	430.9	0.0019 mg/L	0.00091	0.0019 mg/L	0.00091 46.69%
QC value within limits for V 290.880	Recovery = Not calculated				
Zn 206.200†	-85.3	-0.0012 mg/L	0.00009	-0.0012 mg/L	0.00009 7.78%
QC value within limits for Zn 206.200	Recovery = Not calculated				
Zr 343.823†	-30.6	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011 163.51%
All analyte(s) passed QC.					

Sequence No.: 79

Sample ID: B371700-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 88

Date Collected: 4/17/2024 6:47:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5224497.5	95.08 %	0.455			0.48%
Y radial	199509.6	103.8 %	0.87			0.83%

Ag 328.068†	-8586.9	-0.0204 mg/L	0.00039	-0.0204 mg/L	0.00039	1.93%
Al 396.153†	993278.8	257.0 mg/L	3.36	257.0 mg/L	3.36	1.31%
As 188.979†	-445.8	0.0750 mg/L	0.00212	0.0750 mg/L	0.00212	2.82%
B 208.889†	6025.4	0.3222 mg/L	0.00250	0.3222 mg/L	0.00250	0.78%
Ba 233.527†	312040.0	1.786 mg/L	0.0115	1.786 mg/L	0.0115	0.64%
Be 313.107†	7231.0	0.0125 mg/L	0.00003	0.0125 mg/L	0.00003	0.20%
Ca 317.933†	517002.1	74.37 mg/L	0.859	74.37 mg/L	0.859	1.16%
Cd 228.802†	-354.5	0.0050 mg/L	0.00010	0.0050 mg/L	0.00010	1.95%
Co 228.616†	28196.9	0.2620 mg/L	0.00132	0.2620 mg/L	0.00132	0.50%
Cr 267.716†	41573.0	0.3126 mg/L	0.00150	0.3126 mg/L	0.00150	0.48%
Cu 327.393†	136226.2	0.7664 mg/L	0.00445	0.7664 mg/L	0.00445	0.58%
Fe 238.204†	1038379.7	437.1 mg/L	4.57	437.1 mg/L	4.57	1.05%
K 766.490†	103455.5	31.25 mg/L	0.405	31.25 mg/L	0.405	1.30%
Mg 285.213†	1056868.7	123.3 mg/L	1.50	123.3 mg/L	1.50	1.22%
Mn 257.610†	333414.3	13.38 mg/L	0.151	13.38 mg/L	0.151	1.13%
Mo 202.031†	-379.6	-0.0151 mg/L	0.00047	-0.0151 mg/L	0.00047	3.09%
Na 589.592†	186160.7	15.31 mg/L	0.195	15.31 mg/L	0.195	1.28%
Ni 231.604†	17315.2	0.4347 mg/L	0.00243	0.4347 mg/L	0.00243	0.56%
Pb 220.353†	6777.0	0.5592 mg/L	0.00229	0.5592 mg/L	0.00229	0.41%
Sb 206.836†	-67.3	0.0055 mg/L	0.00119	0.0055 mg/L	0.00119	21.66%
Se 196.026†	9.8	-0.0164 mg/L	0.00288	-0.0164 mg/L	0.00288	17.51%
Sn 189.927†	-207.3	-0.0242 mg/L	0.00163	-0.0242 mg/L	0.00163	6.74%
Ti 337.279†	148404.6	7.832 mg/L	0.0080	7.832 mg/L	0.0080	0.10%
Tl 351.924†	-3576.3	-0.0473 mg/L	0.00576	-0.0473 mg/L	0.00576	12.18%
V 290.880†	177576.2	0.7706 mg/L	0.00665	0.7706 mg/L	0.00665	0.86%
Zn 206.200†	95987.8	1.302 mg/L	0.0080	1.302 mg/L	0.0080	0.61%
Zr 343.823†	58865.4	0.1203 mg/L	0.00214	0.1203 mg/L	0.00214	1.78%

Sequence No.: 80

Sample ID: 24D2024-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 89

Date Collected: 4/17/2024 6:51:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D2024-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5383031.0	97.97	%	0.285				0.29%
Y radial	201425.6	104.8	%	0.49				0.47%
Ag 328.068†	-7750.0	-0.0185	mg/L	0.00045	-0.0185	mg/L	0.00045	2.44%
Al 396.153†	905099.8	234.2	mg/L	1.54	234.2	mg/L	1.54	0.66%
As 188.979†	-360.7	0.0787	mg/L	0.00350	0.0787	mg/L	0.00350	4.44%
B 208.889†	5793.2	0.3097	mg/L	0.00181	0.3097	mg/L	0.00181	0.58%
Ba 233.527†	338619.7	1.946	mg/L	0.0107	1.946	mg/L	0.0107	0.55%
Be 313.107†	7122.6	0.0126	mg/L	0.00015	0.0126	mg/L	0.00015	1.21%
Ca 317.933†	351153.9	50.51	mg/L	0.405	50.51	mg/L	0.405	0.80%
Cd 228.802†	-214.9	0.0054	mg/L	0.00009	0.0054	mg/L	0.00009	1.68%
Co 228.616†	23737.7	0.2210	mg/L	0.00026	0.2210	mg/L	0.00026	0.12%
Cr 267.716†	38516.6	0.2887	mg/L	0.00150	0.2887	mg/L	0.00150	0.52%
Cu 327.393†	124437.9	0.7000	mg/L	0.00862	0.7000	mg/L	0.00862	1.23%
Fe 238.204†	980052.6	412.6	mg/L	2.94	412.6	mg/L	2.94	0.71%
K 766.490†	96693.5	29.21	mg/L	0.178	29.21	mg/L	0.178	0.61%
Mg 285.213†	828573.7	96.74	mg/L	0.624	96.74	mg/L	0.624	0.65%
Mn 257.610†	365835.8	14.67	mg/L	0.111	14.67	mg/L	0.111	0.75%
Mo 202.031†	-320.0	-0.0127	mg/L	0.00067	-0.0127	mg/L	0.00067	5.25%
Na 589.592†	149416.9	12.29	mg/L	0.097	12.29	mg/L	0.097	0.79%
Ni 231.604†	13770.2	0.3457	mg/L	0.00067	0.3457	mg/L	0.00067	0.19%
Pb 220.353†	8064.6	0.6609	mg/L	0.00084	0.6609	mg/L	0.00084	0.13%
Sb 206.836†	-74.8	0.0035	mg/L	0.00316	0.0035	mg/L	0.00316	91.25%
Se 196.026†	20.7	-0.0045	mg/L	0.00387	-0.0045	mg/L	0.00387	86.26%
Sn 189.927†	-159.0	-0.0186	mg/L	0.00099	-0.0186	mg/L	0.00099	5.33%
Ti 337.279†	121808.2	6.428	mg/L	0.0383	6.428	mg/L	0.0383	0.60%
Tl 351.924†	-3358.7	-0.0399	mg/L	0.00101	-0.0399	mg/L	0.00101	2.54%
V 290.880†	163118.1	0.7067	mg/L	0.00633	0.7067	mg/L	0.00633	0.90%
Zn 206.200†	96774.2	1.314	mg/L	0.0024	1.314	mg/L	0.0024	0.19%
Zr 343.823†	52254.5	0.1062	mg/L	0.00089	0.1062	mg/L	0.00089	0.84%

Sequence No.: 81
 Sample ID: 24D1496-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 90
 Date Collected: 4/17/2024 6:56:30 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1496-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5166826.4	94.03 %		0.436			0.46%
Y radial	195756.0	101.9 %		0.37			0.37%
Ag 328.068†	-6067.7	-0.0140 mg/L		0.00040	-0.0140 mg/L	0.00040	2.86%
Al 396.153†	1381721.1	357.5 mg/L		2.06	357.5 mg/L	2.06	0.58%
As 188.979†	-297.8	0.0538 mg/L		0.00195	0.0538 mg/L	0.00195	3.62%
B 208.889†	-461.4	-0.0239 mg/L		0.00051	-0.0239 mg/L	0.00051	2.12%
Ba 233.527†	387711.7	2.245 mg/L		0.0138	2.245 mg/L	0.0138	0.62%
Be 313.107†	7172.4	0.0138 mg/L		0.00008	0.0138 mg/L	0.00008	0.59%
Ca 317.933†	3492302.8	502.3 mg/L		3.35	502.3 mg/L	3.35	0.67%
Cd 228.802†	-433.3	0.0026 mg/L		0.00002	0.0026 mg/L	0.00002	0.62%
Co 228.616†	16039.4	0.1515 mg/L		0.00089	0.1515 mg/L	0.00089	0.59%
Cr 267.716†	55814.3	0.4250 mg/L		0.00241	0.4250 mg/L	0.00241	0.57%
Cu 327.393†	50983.3	0.2875 mg/L		0.00196	0.2875 mg/L	0.00196	0.68%
Fe 238.204†	808639.1	340.4 mg/L		2.04	340.4 mg/L	2.04	0.60%
K 766.490†	124319.3	37.55 mg/L		0.199	37.55 mg/L	0.199	0.53%
Mg 285.213†	1323313.5	154.1 mg/L		0.94	154.1 mg/L	0.94	0.61%
Mn 257.610†	123328.6	4.962 mg/L		0.0052	4.962 mg/L	0.0052	0.10%
Mo 202.031†	-376.5	-0.0150 mg/L		0.00040	-0.0150 mg/L	0.00040	2.69%
Na 589.592†	249234.4	20.50 mg/L		0.133	20.50 mg/L	0.133	0.65%
Ni 231.604†	16547.3	0.4154 mg/L		0.00289	0.4154 mg/L	0.00289	0.69%
Pb 220.353†	3469.7	0.3117 mg/L		0.00245	0.3117 mg/L	0.00245	0.79%
Sb 206.836†	13.6	0.0108 mg/L		0.00090	0.0108 mg/L	0.00090	8.38%
Se 196.026†	16.9	-0.0640 mg/L		0.00284	-0.0640 mg/L	0.00284	4.45%
Sn 189.927†	-401.4	-0.0469 mg/L		0.00164	-0.0469 mg/L	0.00164	3.49%
Ti 337.279†	62306.7	3.288 mg/L		0.0061	3.288 mg/L	0.0061	0.19%
Tl 351.924†	-2881.6	-0.0350 mg/L		0.00388	-0.0350 mg/L	0.00388	11.07%
V 290.880†	111035.2	0.4763 mg/L		0.00342	0.4763 mg/L	0.00342	0.72%
Zn 206.200†	71632.8	0.9713 mg/L		0.00542	0.9713 mg/L	0.00542	0.56%
Zr 343.823†	101227.4	0.2167 mg/L		0.00230	0.2167 mg/L	0.00230	1.06%

Sequence No.: 82
 Sample ID: 24D1496-02
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 91
 Date Collected: 4/17/2024 7:01:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1496-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4397922.3	80.04 %		0.734			0.92%
Y radial	175672.6	91.43 %		0.283			0.31%
Ag 328.068†	-4498.4	-0.0165 mg/L		0.00037	-0.0165 mg/L	0.00037	2.24%
Al 396.153†	332976.8	86.15 mg/L		0.319	86.15 mg/L	0.319	0.37%
As 188.979†	-64.0	0.0898 mg/L		0.00688	0.0898 mg/L	0.00688	7.66%
B 208.889†	164.2	0.0091 mg/L		0.00056	0.0091 mg/L	0.00056	6.21%
Ba 233.527†	327545.8	1.910 mg/L		0.0132	1.910 mg/L	0.0132	0.69%
Be 313.107†	2047.1	0.0037 mg/L		0.00024	0.0037 mg/L	0.00024	6.42%
Ca 317.933†	13652692.8	1964 mg/L		18.31	1964 mg/L	18.31	0.93%
Cd 228.802†	1102.0	0.0125 mg/L		0.00027	0.0125 mg/L	0.00027	2.19%
Co 228.616†	7162.3	0.0681 mg/L		0.00047	0.0681 mg/L	0.00047	0.69%
Cr 267.716†	17184.3	0.1225 mg/L		0.00131	0.1225 mg/L	0.00131	1.07%
Cu 327.393†	56613.2	0.3188 mg/L		0.00260	0.3188 mg/L	0.00260	0.82%
Fe 238.204†	436103.2	183.6 mg/L		0.61	183.6 mg/L	0.61	0.33%
K 766.490†	73954.1	22.34 mg/L		0.119	22.34 mg/L	0.119	0.53%
Mg 285.213†	5232072.8	608.4 mg/L		6.92	608.4 mg/L	6.92	1.14%

Mn 257.610†	525341.3	21.04 mg/L	0.079	21.04 mg/L	0.079	0.38%
Mo 202.031†	-168.4	-0.0067 mg/L	0.00024	-0.0067 mg/L	0.00024	3.61%
Na 589.592†	48949.4	4.026 mg/L	0.0132	4.026 mg/L	0.0132	0.33%
Ni 231.604†	6222.0	0.1562 mg/L	0.00159	0.1562 mg/L	0.00159	1.02%
Pb 220.353†	8757.6	0.7061 mg/L	0.00590	0.7061 mg/L	0.00590	0.84%
Sb 206.836†	62.6	0.0160 mg/L	0.00235	0.0160 mg/L	0.00235	14.68%
Se 196.026†	50.3	-0.2976 mg/L	0.00668	-0.2976 mg/L	0.00668	2.24%
Sn 189.927†	-589.6	-0.0687 mg/L	0.00166	-0.0687 mg/L	0.00166	2.42%
Ti 337.279†	25474.9	1.344 mg/L	0.0175	1.344 mg/L	0.0175	1.30%
Tl 351.924†	-1481.1	-0.0110 mg/L	0.00253	-0.0110 mg/L	0.00253	23.04%
V 290.880†	41967.4	0.1761 mg/L	0.00193	0.1761 mg/L	0.00193	1.10%
Zn 206.200†	146766.7	2.023 mg/L	0.0094	2.023 mg/L	0.0094	0.47%
Zr 343.823†	59845.4	0.1286 mg/L	0.00173	0.1286 mg/L	0.00173	1.34%

Sequence No.: 83

Sample ID: 24D1675-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 92

Date Collected: 4/17/2024 7:05:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1675-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4375669.3	79.64 %		0.475			0.60%
Y radial	176067.8	91.64 %		0.368			0.40%
Ag 328.068†	-4529.1	-0.0169 mg/L		0.00069	-0.0169 mg/L	0.00069	4.05%
Al 396.153†	362577.7	93.81 mg/L		0.309	93.81 mg/L	0.309	0.33%
As 188.979†	-30.0	0.1069 mg/L		0.00817	0.1069 mg/L	0.00817	7.65%
B 208.889†	315.4	0.0171 mg/L		0.00115	0.0171 mg/L	0.00115	6.75%
Ba 233.527†	260141.0	1.510 mg/L		0.0034	1.510 mg/L	0.0034	0.23%
Be 313.107†	2072.4	0.0037 mg/L		0.00002	0.0037 mg/L	0.00002	0.52%
Ca 317.933†	15057681.1	2166 mg/L		8.63	2166 mg/L	8.63	0.40%
Cd 228.802†	629.4	0.0084 mg/L		0.00010	0.0084 mg/L	0.00010	1.14%
Co 228.616†	8254.5	0.0791 mg/L		0.00046	0.0791 mg/L	0.00046	0.58%
Cr 267.716†	18714.7	0.1329 mg/L		0.00058	0.1329 mg/L	0.00058	0.44%
Cu 327.393†	48145.1	0.2711 mg/L		0.00100	0.2711 mg/L	0.00100	0.37%
Fe 238.204†	466180.7	196.3 mg/L		0.67	196.3 mg/L	0.67	0.34%
K 766.490†	77418.8	23.39 mg/L		0.107	23.39 mg/L	0.107	0.46%
Mg 285.213†	5098156.1	592.8 mg/L		2.30	592.8 mg/L	2.30	0.39%
Mn 257.610†	602621.9	24.13 mg/L		0.074	24.13 mg/L	0.074	0.31%
Mo 202.031†	-133.2	-0.0053 mg/L		0.00032	-0.0053 mg/L	0.00032	6.02%
Na 589.592†	45678.0	3.757 mg/L		0.0259	3.757 mg/L	0.0259	0.69%
Ni 231.604†	6690.3	0.1680 mg/L		0.00141	0.1680 mg/L	0.00141	0.84%
Pb 220.353†	6815.5	0.5505 mg/L		0.00414	0.5505 mg/L	0.00414	0.75%
Sb 206.836†	77.0	0.0187 mg/L		0.00021	0.0187 mg/L	0.00021	1.13%
Se 196.026†	70.7	-0.3056 mg/L		0.00824	-0.3056 mg/L	0.00824	2.69%
Sn 189.927†	-594.8	-0.0692 mg/L		0.00228	-0.0692 mg/L	0.00228	3.29%
Ti 337.279†	23195.5	1.224 mg/L		0.0157	1.224 mg/L	0.0157	1.28%
Tl 351.924†	-1586.6	-0.0112 mg/L		0.00116	-0.0112 mg/L	0.00116	10.32%
V 290.880†	44639.7	0.1871 mg/L		0.00027	0.1871 mg/L	0.00027	0.14%
Zn 206.200†	95583.8	1.313 mg/L		0.0060	1.313 mg/L	0.0060	0.46%
Zr 343.823†	53163.3	0.1134 mg/L		0.00050	0.1134 mg/L	0.00050	0.44%

Sequence No.: 84

Sample ID: 24D1969-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 93

Date Collected: 4/17/2024 7:10:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1969-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4697659.9	85.50 %		1.157			1.35%
Y radial	180529.1	93.96 %		0.786			0.84%

Ag 328.068†	-7345.4	-0.0193 mg/L	0.00040	-0.0193 mg/L	0.00040	2.08%
Al 396.153†	537911.0	139.2 mg/L	0.64	139.2 mg/L	0.64	0.46%
As 188.979†	-224.2	0.1028 mg/L	0.00695	0.1028 mg/L	0.00695	6.76%
B 208.889†	-2127.2	-0.1131 mg/L	0.00047	-0.1131 mg/L	0.00047	0.42%
Ba 233.527†	103512.4	0.5663 mg/L	0.00334	0.5663 mg/L	0.00334	0.59%
Be 313.107†	2941.5	0.0055 mg/L	0.00022	0.0055 mg/L	0.00022	4.03%
Ca 317.933†	5502657.0	791.5 mg/L	2.38	791.5 mg/L	2.38	0.30%
Cd 228.802†	375.3	0.0087 mg/L	0.00021	0.0087 mg/L	0.00021	2.38%
Co 228.616†	15460.3	0.1416 mg/L	0.00242	0.1416 mg/L	0.00242	1.71%
Cr 267.716†	23411.5	0.1760 mg/L	0.00260	0.1760 mg/L	0.00260	1.48%
Cu 327.393†	55928.3	0.3149 mg/L	0.00152	0.3149 mg/L	0.00152	0.48%
Fe 238.204†	811186.6	341.5 mg/L	1.06	341.5 mg/L	1.06	0.31%
K 766.490†	78422.4	23.69 mg/L	0.099	23.69 mg/L	0.099	0.42%
Mg 285.213†	3504049.9	407.8 mg/L	1.64	407.8 mg/L	1.64	0.40%
Mn 257.610†	187254.0	7.520 mg/L	0.0271	7.520 mg/L	0.0271	0.36%
Mo 202.031†	-183.6	-0.0073 mg/L	0.00053	-0.0073 mg/L	0.00053	7.20%
Na 589.592†	68702.5	5.650 mg/L	0.0325	5.650 mg/L	0.0325	0.58%
Ni 231.604†	10094.8	0.2535 mg/L	0.00377	0.2535 mg/L	0.00377	1.49%
Pb 220.353†	1735.0	0.1445 mg/L	0.00160	0.1445 mg/L	0.00160	1.11%
Sb 206.836†	1.4	0.0131 mg/L	0.00043	0.0131 mg/L	0.00043	3.26%
Se 196.026†	31.7	-0.1374 mg/L	0.00770	-0.1374 mg/L	0.00770	5.61%
Sn 189.927†	-478.3	-0.0557 mg/L	0.00032	-0.0557 mg/L	0.00032	0.57%
Ti 337.279†	98469.6	5.197 mg/L	0.0104	5.197 mg/L	0.0104	0.20%
Tl 351.924†	-2660.2	-0.0210 mg/L	0.00224	-0.0210 mg/L	0.00224	10.68%
V 290.880†	55588.8	0.2275 mg/L	0.00133	0.2275 mg/L	0.00133	0.58%
Zn 206.200†	113548.2	1.552 mg/L	0.0088	1.552 mg/L	0.0088	0.57%
Zr 343.823†	60456.6	0.1261 mg/L	0.00037	0.1261 mg/L	0.00037	0.29%

Sequence No.: 85

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/17/2024 7:15:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5323495.9	96.89	%	0.539				0.56%
Y radial	192311.2	100.1	%	0.87				0.86%
Ag 328.068†	708.4	0.0024 mg/L		0.00041	0.0024 mg/L		0.00041	17.17%
Al 396.153†	41.0	0.0106 mg/L		0.00618	0.0106 mg/L		0.00618	58.17%
As 188.979†	-9.7	-0.0029 mg/L		0.00132	-0.0029 mg/L		0.00132	46.32%
B 208.889†	-2288.7	-0.1221 mg/L		0.00018	-0.1221 mg/L		0.00018	0.15%
Ba 233.527†	20.6	0.0001 mg/L		0.00004	0.0001 mg/L		0.00004	35.84%
Be 313.107†	-31.0	-0.0001 mg/L		0.00004	-0.0001 mg/L		0.00004	55.78%
Ca 317.933†	286.7	0.0412 mg/L		0.00869	0.0412 mg/L		0.00869	21.07%
Cd 228.802†	-6.0	0.0000 mg/L		0.00010	0.0000 mg/L		0.00010	871.27%
Co 228.616†	-0.1	-0.0000 mg/L		0.00003	-0.0000 mg/L		0.00003	>999.9%
Cr 267.716†	-29.4	-0.0002 mg/L		0.00012	-0.0002 mg/L		0.00012	54.24%
Cu 327.393†	-1365.3	-0.0077 mg/L		0.00019	-0.0077 mg/L		0.00019	2.51%
Fe 238.204†	29.4	0.0124 mg/L		0.00353	0.0124 mg/L		0.00353	28.53%
K 766.490†	272.8	0.0824 mg/L		0.01994	0.0824 mg/L		0.01994	24.20%
Mg 285.213†	147.9	0.0172 mg/L		0.00434	0.0172 mg/L		0.00434	25.21%
Mn 257.610†	17.0	0.0007 mg/L		0.00022	0.0007 mg/L		0.00022	32.07%
Mo 202.031†	-2.8	-0.0001 mg/L		0.00004	-0.0001 mg/L		0.00004	36.35%
Na 589.592†	780.7	0.0642 mg/L		0.00147	0.0642 mg/L		0.00147	2.29%
Ni 231.604†	-7.9	-0.0002 mg/L		0.00038	-0.0002 mg/L		0.00038	190.45%
Pb 220.353†	0.8	0.0001 mg/L		0.00113	0.0001 mg/L		0.00113	>999.9%
Sb 206.836†	4.1	0.0007 mg/L		0.00077	0.0007 mg/L		0.00077	118.00%
Se 196.026†	1.5	0.0007 mg/L		0.00361	0.0007 mg/L		0.00361	501.46%
Sn 189.927†	3.9	0.0004 mg/L		0.00021	0.0004 mg/L		0.00021	46.92%
Ti 337.279†	18.9	0.0010 mg/L		0.00027	0.0010 mg/L		0.00027	26.77%
Tl 351.924†	8.4	0.0007 mg/L		0.00182	0.0007 mg/L		0.00182	258.32%
V 290.880†	448.0	0.0020 mg/L		0.00046	0.0020 mg/L		0.00046	22.98%
Zn 206.200†	-101.3	-0.0014 mg/L		0.00004	-0.0014 mg/L		0.00004	3.01%
Zr 343.823†	-144.5	-0.0003 mg/L		0.00016	-0.0003 mg/L		0.00016	51.17%

Sequence No.: 86
 Sample ID: B371474-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 94
 Date Collected: 4/17/2024 7:20:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371474-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5170893.1	94.11 %		2.268			2.41%
Y radial	188617.2	98.17 %		1.305			1.33%
Ag 328.068†	473.2	0.0016 mg/L		0.00047	0.0016 mg/L	0.00047	29.70%
Al 396.153†	50.5	0.0130 mg/L		0.00461	0.0130 mg/L	0.00461	35.43%
As 188.979†	-39.6	-0.0118 mg/L		0.00140	-0.0118 mg/L	0.00140	11.88%
B 208.889†	-2221.3	-0.1185 mg/L		0.00065	-0.1185 mg/L	0.00065	0.55%
Ba 233.527†	19.3	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	25.96%
Be 313.107†	-90.9	-0.0002 mg/L		0.00002	-0.0002 mg/L	0.00002	8.05%
Ca 317.933†	292.3	0.0420 mg/L		0.00414	0.0420 mg/L	0.00414	9.85%
Cd 228.802†	46.2	0.0007 mg/L		0.00005	0.0007 mg/L	0.00005	6.74%
Co 228.616†	-21.5	-0.0002 mg/L		0.00011	-0.0002 mg/L	0.00011	50.93%
Cr 267.716†	118.7	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	11.60%
Cu 327.393†	-289.8	-0.0016 mg/L		0.00015	-0.0016 mg/L	0.00015	9.08%
Fe 238.204†	24.1	0.0101 mg/L		0.00206	0.0101 mg/L	0.00206	20.33%
K 766.490†	343.3	0.1037 mg/L		0.02129	0.1037 mg/L	0.02129	20.53%
Mg 285.213†	60.3	0.0070 mg/L		0.00062	0.0070 mg/L	0.00062	8.89%
Mn 257.610†	84.8	0.0034 mg/L		0.00005	0.0034 mg/L	0.00005	1.43%
Mo 202.031†	21.2	0.0008 mg/L		0.00049	0.0008 mg/L	0.00049	57.77%
Na 589.592†	831.9	0.0684 mg/L		0.00374	0.0684 mg/L	0.00374	5.47%
Ni 231.604†	106.2	0.0027 mg/L		0.00038	0.0027 mg/L	0.00038	14.11%
Pb 220.353†	-34.4	-0.0028 mg/L		0.00023	-0.0028 mg/L	0.00023	8.31%
Sb 206.836†	20.9	0.0035 mg/L		0.00025	0.0035 mg/L	0.00025	7.03%
Se 196.026†	-4.4	-0.0022 mg/L		0.00129	-0.0022 mg/L	0.00129	58.92%
Sn 189.927†	353.0	0.0410 mg/L		0.00125	0.0410 mg/L	0.00125	3.04%
Ti 337.279†	38.1	0.0020 mg/L		0.00037	0.0020 mg/L	0.00037	18.18%
Tl 351.924†	100.6	0.0085 mg/L		0.00406	0.0085 mg/L	0.00406	47.93%
V 290.880†	338.8	0.0015 mg/L		0.00102	0.0015 mg/L	0.00102	67.04%
Zn 206.200†	13.1	0.0002 mg/L		0.00012	0.0002 mg/L	0.00012	69.42%
Zr 343.823†	337.3	0.0007 mg/L		0.00021	0.0007 mg/L	0.00021	28.57%

Sequence No.: 87
 Sample ID: B371474-BS1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 95
 Date Collected: 4/17/2024 7:26:20 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371474-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5108179.2	92.97 %		1.357			1.46%
Y radial	182731.4	95.10 %		0.683			0.72%
Ag 328.068†	221606.1	0.7497 mg/L		0.01223	0.7497 mg/L	0.01223	1.63%
Al 396.153†	193076.0	49.90 mg/L		0.745	49.90 mg/L	0.745	1.49%
As 188.979†	8726.5	2.642 mg/L		0.0304	2.642 mg/L	0.0304	1.15%
B 208.889†	34444.0	1.773 mg/L		0.0200	1.773 mg/L	0.0200	1.13%
Ba 233.527†	486299.5	2.866 mg/L		0.0493	2.866 mg/L	0.0493	1.72%
Be 313.107†	702001.0	1.585 mg/L		0.0235	1.585 mg/L	0.0235	1.48%
Ca 317.933†	324383.3	46.66 mg/L		0.599	46.66 mg/L	0.599	1.28%
Cd 228.802†	228327.8	1.951 mg/L		0.0314	1.951 mg/L	0.0314	1.61%
Co 228.616†	76737.7	0.7548 mg/L		0.01317	0.7548 mg/L	0.01317	1.75%
Cr 267.716†	219915.5	1.681 mg/L		0.0278	1.681 mg/L	0.0278	1.65%
Cu 327.393†	342462.1	1.926 mg/L		0.0310	1.926 mg/L	0.0310	1.61%
Fe 238.204†	126232.4	53.14 mg/L		0.695	53.14 mg/L	0.695	1.31%
K 766.490†	34842.8	10.52 mg/L		0.189	10.52 mg/L	0.189	1.80%
Mg 285.213†	122755.0	14.31 mg/L		0.191	14.31 mg/L	0.191	1.33%

Mn 257.610†	128969.2	5.165 mg/L	0.0682	5.165 mg/L	0.0682	1.32%
Mo 202.031†	32515.7	1.291 mg/L	0.0155	1.291 mg/L	0.0155	1.20%
Na 589.592†	49808.4	4.096 mg/L	0.0624	4.096 mg/L	0.0624	1.52%
Ni 231.604†	113497.5	2.847 mg/L	0.0478	2.847 mg/L	0.0478	1.68%
Pb 220.353†	10324.5	0.8327 mg/L	0.01009	0.8327 mg/L	0.01009	1.21%
Sb 206.836†	5830.5	0.8969 mg/L	0.01334	0.8969 mg/L	0.01334	1.49%
Se 196.026†	2926.4	1.448 mg/L	0.0160	1.448 mg/L	0.0160	1.11%
Sn 189.927†	5772.7	0.6708 mg/L	0.00920	0.6708 mg/L	0.00920	1.37%
Ti 337.279†	55622.7	2.935 mg/L	0.0389	2.935 mg/L	0.0389	1.33%
Tl 351.924†	21830.8	1.859 mg/L	0.0200	1.859 mg/L	0.0200	1.08%
V 290.880†	217817.7	0.9771 mg/L	0.01699	0.9771 mg/L	0.01699	1.74%
Zn 206.200†	110573.3	1.539 mg/L	0.0239	1.539 mg/L	0.0239	1.55%
Zr 343.823†	28830.9	0.0628 mg/L	0.00125	0.0628 mg/L	0.00125	2.00%

Sequence No.: 88

Sample ID: B371474-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 96

Date Collected: 4/17/2024 7:30:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371474-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5134571.7	93.45 %		0.391			0.42%
Y radial	184561.7	96.06 %		0.531			0.55%
Ag 328.068†	232649.0	0.7872 mg/L		0.00619	0.7872 mg/L	0.00619	0.79%
Al 396.153†	201183.7	51.99 mg/L		0.216	51.99 mg/L	0.216	0.42%
As 188.979†	9250.8	2.799 mg/L		0.0148	2.799 mg/L	0.0148	0.53%
B 208.889†	36927.4	1.900 mg/L		0.0192	1.900 mg/L	0.0192	1.01%
Ba 233.527†	560941.6	3.307 mg/L		0.0277	3.307 mg/L	0.0277	0.84%
Be 313.107†	766016.7	1.730 mg/L		0.0046	1.730 mg/L	0.0046	0.27%
Ca 317.933†	353824.8	50.89 mg/L		0.054	50.89 mg/L	0.054	0.11%
Cd 228.802†	258166.4	2.210 mg/L		0.0184	2.210 mg/L	0.0184	0.83%
Co 228.616†	84031.0	0.8269 mg/L		0.00668	0.8269 mg/L	0.00668	0.81%
Cr 267.716†	242764.4	1.856 mg/L		0.0143	1.856 mg/L	0.0143	0.77%
Cu 327.393†	382094.3	2.148 mg/L		0.0183	2.148 mg/L	0.0183	0.85%
Fe 238.204†	132842.8	55.93 mg/L		0.117	55.93 mg/L	0.117	0.21%
K 766.490†	35319.5	10.67 mg/L		0.038	10.67 mg/L	0.038	0.36%
Mg 285.213†	127829.2	14.91 mg/L		0.036	14.91 mg/L	0.036	0.24%
Mn 257.610†	133331.6	5.340 mg/L		0.0112	5.340 mg/L	0.0112	0.21%
Mo 202.031†	35315.5	1.403 mg/L		0.0095	1.403 mg/L	0.0095	0.68%
Na 589.592†	50405.4	4.145 mg/L		0.0231	4.145 mg/L	0.0231	0.56%
Ni 231.604†	125592.6	3.150 mg/L		0.0277	3.150 mg/L	0.0277	0.88%
Pb 220.353†	10622.9	0.8567 mg/L		0.00604	0.8567 mg/L	0.00604	0.71%
Sb 206.836†	6117.5	0.9395 mg/L		0.00720	0.9395 mg/L	0.00720	0.77%
Se 196.026†	3149.1	1.558 mg/L		0.0137	1.558 mg/L	0.0137	0.88%
Sn 189.927†	6008.7	0.6982 mg/L		0.00605	0.6982 mg/L	0.00605	0.87%
Ti 337.279†	56853.0	3.000 mg/L		0.0039	3.000 mg/L	0.0039	0.13%
Tl 351.924†	25022.5	2.129 mg/L		0.0193	2.129 mg/L	0.0193	0.90%
V 290.880†	235582.4	1.057 mg/L		0.0092	1.057 mg/L	0.0092	0.87%
Zn 206.200†	120490.1	1.677 mg/L		0.0168	1.677 mg/L	0.0168	1.00%
Zr 343.823†	29301.1	0.0637 mg/L		0.00048	0.0637 mg/L	0.00048	0.76%

Sequence No.: 89

Sample ID: B371474-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 97

Date Collected: 4/17/2024 7:35:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371474-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4558182.7	82.96 %		0.412			0.50%
Y radial	177246.8	92.25 %		1.410			1.53%

Ag	328.068†	137643.1	0.4794 mg/L	0.00368	0.4794 mg/L	0.00368	0.77%
Al	396.153†	688458.4	178.1 mg/L	0.30	178.1 mg/L	0.30	0.17%
As	188.979†	2469.7	1.078 mg/L	0.0059	1.078 mg/L	0.0059	0.55%
B	208.889†	16693.5	0.8684 mg/L	0.00806	0.8684 mg/L	0.00806	0.93%
Ba	233.527†	493482.8	2.834 mg/L	0.0151	2.834 mg/L	0.0151	0.53%
Be	313.107†	210677.6	0.4714 mg/L	0.00089	0.4714 mg/L	0.00089	0.19%
Ca	317.933†	4198997.9	604.0 mg/L	10.70	604.0 mg/L	10.70	1.77%
Cd	228.802†	55934.9	0.4817 mg/L	0.00292	0.4817 mg/L	0.00292	0.61%
Co	228.616†	60147.3	0.5638 mg/L	0.00333	0.5638 mg/L	0.00333	0.59%
Cr	267.716†	117656.4	0.8983 mg/L	0.00474	0.8983 mg/L	0.00474	0.53%
Cu	327.393†	637728.6	3.586 mg/L	0.0394	3.586 mg/L	0.0394	1.10%
Fe	238.204†	1459852.1	614.6 mg/L	4.55	614.6 mg/L	4.55	0.74%
K	766.490†	153048.5	46.23 mg/L	0.067	46.23 mg/L	0.067	0.14%
Mg	285.213†	2933918.1	341.7 mg/L	5.81	341.7 mg/L	5.81	1.70%
Mn	257.610†	135690.6	5.478 mg/L	0.0296	5.478 mg/L	0.0296	0.54%
Mo	202.031†	11096.0	0.4407 mg/L	0.00379	0.4407 mg/L	0.00379	0.86%
Na	589.592†	102119.7	8.398 mg/L	0.0122	8.398 mg/L	0.0122	0.15%
Ni	231.604†	30529.3	0.7661 mg/L	0.00561	0.7661 mg/L	0.00561	0.73%
Pb	220.353†	157201.0	12.62 mg/L	0.065	12.62 mg/L	0.065	0.51%
Sb	206.836†	697.7	0.1279 mg/L	0.00090	0.1279 mg/L	0.00090	0.70%
Se	196.026†	1031.1	0.4014 mg/L	0.00682	0.4014 mg/L	0.00682	1.70%
Sn	189.927†	4324.3	0.5024 mg/L	0.00453	0.5024 mg/L	0.00453	0.90%
Ti	337.279†	285180.8	15.05 mg/L	0.037	15.05 mg/L	0.037	0.24%
Tl	351.924†	-428.6	0.3067 mg/L	0.00393	0.3067 mg/L	0.00393	1.28%
V	290.880†	270427.2	1.178 mg/L	0.0082	1.178 mg/L	0.0082	0.69%
Zn	206.200†	209844.1	2.871 mg/L	0.0123	2.871 mg/L	0.0123	0.43%
Zr	343.823†	65509.4	0.1309 mg/L	0.00225	0.1309 mg/L	0.00225	1.72%

Sequence No. : 90

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 5

Date Collected: 4/17/2024 7:42:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte		Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial		5196820.2	94.58 %	0.936			0.99%
Y radial		190385.9	99.09 %	1.073			1.08%
Ag 328.068†		688736.4	2.299 mg/L	0.0387	2.299 mg/L	0.0387	1.68%
	QC value within limits for Ag 328.068		Recovery = 91.95%				
Al 396.153†		37823.7	9.529 mg/L	0.0305	9.529 mg/L	0.0305	0.32%
	QC value within limits for Al 396.153		Recovery = 95.29%				
As 188.979†		15903.7	4.754 mg/L	0.0175	4.754 mg/L	0.0175	0.37%
	QC value within limits for As 188.979		Recovery = 95.08%				
B 208.889†		86092.0	4.351 mg/L	0.0030	4.351 mg/L	0.0030	0.07%
	QC value less than the lower limit for B 208.889		Recovery = 87.01%				
Ba 233.527†		823357.2	4.870 mg/L	0.0115	4.870 mg/L	0.0115	0.24%
	QC value within limits for Ba 233.527		Recovery = 97.40%				
Be 313.107†		2072651.9	4.672 mg/L	0.0507	4.672 mg/L	0.0507	1.08%
	QC value within limits for Be 313.107		Recovery = 93.44%				
Ca 317.933†		65660.0	9.445 mg/L	0.0347	9.445 mg/L	0.0347	0.37%
	QC value within limits for Ca 317.933		Recovery = 94.45%				
Cd 228.802†		560230.4	4.833 mg/L	0.0154	4.833 mg/L	0.0154	0.32%
	QC value within limits for Cd 228.802		Recovery = 96.65%				
Co 228.616†		489933.7	4.848 mg/L	0.0083	4.848 mg/L	0.0083	0.17%
	QC value within limits for Co 228.616		Recovery = 96.96%				
Cr 267.716†		635036.5	4.860 mg/L	0.0075	4.860 mg/L	0.0075	0.15%
	QC value within limits for Cr 267.716		Recovery = 97.19%				
Cu 327.393†		837701.3	4.727 mg/L	0.0074	4.727 mg/L	0.0074	0.16%
	QC value within limits for Cu 327.393		Recovery = 94.54%				
Fe 238.204†		11366.9	4.811 mg/L	0.0365	4.811 mg/L	0.0365	0.76%
	QC value within limits for Fe 238.204		Recovery = 96.22%				
K 766.490†		30871.7	9.325 mg/L	0.0752	9.325 mg/L	0.0752	0.81%
	QC value within limits for K 766.490		Recovery = 93.25%				
Mg 285.213†		81398.1	9.448 mg/L	0.0270	9.448 mg/L	0.0270	0.29%
	QC value within limits for Mg 285.213		Recovery = 94.48%				

Mn 257.610†	119860.8	4.797 mg/L	0.0190	4.797 mg/L	0.0190	0.40%
QC value within limits for Mn 257.610 Recovery = 95.94%						
Mo 202.031†	121397.7	4.822 mg/L	0.0083	4.822 mg/L	0.0083	0.17%
QC value within limits for Mo 202.031 Recovery = 96.43%						
Na 589.592†	106232.4	8.737 mg/L	0.0964	8.737 mg/L	0.0964	1.10%
QC value less than the lower limit for Na 589.592 Recovery = 87.37%						
Ni 231.604†	193561.4	4.856 mg/L	0.0103	4.856 mg/L	0.0103	0.21%
QC value within limits for Ni 231.604 Recovery = 97.13%						
Pb 220.353†	60935.4	4.899 mg/L	0.0309	4.899 mg/L	0.0309	0.63%
QC value within limits for Pb 220.353 Recovery = 97.99%						
Sb 206.836†	30399.8	4.746 mg/L	0.0153	4.746 mg/L	0.0153	0.32%
QC value within limits for Sb 206.836 Recovery = 94.91%						
Se 196.026†	9539.2	4.742 mg/L	0.0116	4.742 mg/L	0.0116	0.24%
QC value within limits for Se 196.026 Recovery = 94.84%						
Sn 189.927†	41922.0	4.867 mg/L	0.0266	4.867 mg/L	0.0266	0.55%
QC value within limits for Sn 189.927 Recovery = 97.33%						
Ti 337.279†	88864.8	4.687 mg/L	0.0131	4.687 mg/L	0.0131	0.28%
QC value within limits for Ti 337.279 Recovery = 93.74%						
Tl 351.924†	28723.2	2.379 mg/L	0.0163	2.379 mg/L	0.0163	0.68%
QC value within limits for Tl 351.924 Recovery = 95.17%						
V 290.880†	1071234.8	4.820 mg/L	0.0033	4.820 mg/L	0.0033	0.07%
QC value within limits for V 290.880 Recovery = 96.41%						
Zn 206.200†	353754.5	4.931 mg/L	0.0070	4.931 mg/L	0.0070	0.14%
QC value within limits for Zn 206.200 Recovery = 98.61%						
Zr 343.823†	2160820.1	4.799 mg/L	0.0074	4.799 mg/L	0.0074	0.15%
QC Failed. Continue with analysis.						

Sequence No.: 91

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 7:47:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5246271.6	95.48 %	0.954			1.00%
Y radial	192622.8	100.3 %	0.83			0.83%
Ag 328.068†	763.1	0.0026 mg/L	0.00027	0.0026 mg/L	0.00027	10.51%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	7.7	0.0019 mg/L	0.00503	0.0019 mg/L	0.00503	258.67%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-14.8	-0.0044 mg/L	0.00209	-0.0044 mg/L	0.00209	47.79%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2190.7	-0.1169 mg/L	0.00042	-0.1169 mg/L	0.00042	0.36%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	7.2	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	41.75%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-9.9	-0.0000 mg/L	0.00001	-0.0000 mg/L	0.00001	38.23%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	26.6	0.0038 mg/L	0.00101	0.0038 mg/L	0.00101	26.48%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-0.2	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	113.39%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-4.5	-0.0000 mg/L	0.00009	-0.0000 mg/L	0.00009	203.23%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.0	-0.0000 mg/L	0.00012	-0.0000 mg/L	0.00012	546.68%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-1268.0	-0.0071 mg/L	0.00021	-0.0071 mg/L	0.00021	2.90%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	2.7	0.0011 mg/L	0.00034	0.0011 mg/L	0.00034	29.31%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	184.3	0.0557 mg/L	0.01781	0.0557 mg/L	0.01781	32.00%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	10.1	0.0012 mg/L	0.00019	0.0012 mg/L	0.00019	16.13%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	6.3	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	49.42%

QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 28.5 0.0011 mg/L 0.00016 0.0011 mg/L 0.00016 13.80%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 444.6 0.0366 mg/L 0.00122 0.0366 mg/L 0.00122 3.35%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† -1.3 -0.0000 mg/L 0.00029 -0.0000 mg/L 0.00029 866.41%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 15.6 0.0013 mg/L 0.00087 0.0013 mg/L 0.00087 68.21%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 5.6 0.0009 mg/L 0.00050 0.0009 mg/L 0.00050 55.59%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 2.7 0.0013 mg/L 0.00140 0.0013 mg/L 0.00140 103.83%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 7.0 0.0008 mg/L 0.00019 0.0008 mg/L 0.00019 24.02%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 18.0 0.0010 mg/L 0.00010 0.0010 mg/L 0.00010 10.87%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 27.2 0.0023 mg/L 0.00493 0.0023 mg/L 0.00493 215.85%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 400.0 0.0018 mg/L 0.00046 0.0018 mg/L 0.00046 25.67%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -80.4 -0.0011 mg/L 0.00003 -0.0011 mg/L 0.00003 2.40%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -34.8 -0.0001 mg/L 0.00004 -0.0001 mg/L 0.00004 53.61%
 All analyte(s) passed QC.

Sequence No.: 92

Sample ID: B371474-PS1

Analyst:

B371474-DUP1

Initial Sample Wt:

TYPO- JLC 04/18/24

Dilution:

Wash Time: 110

Autosampler Location: 98

Date Collected: 4/17/2024 7:53:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371474-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4723178.7	85.96 %		0.507			0.59%
Y radial	177144.3	92.20 %		0.696			0.75%
Ag 328.068†	-12612.7	-0.0276 mg/L		0.00080	-0.0276 mg/L	0.00080	2.89%
Al 396.153†	659240.6	170.6 mg/L		0.38	170.6 mg/L	0.38	0.22%
As 188.979†	1187.7	0.6971 mg/L		0.00160	0.6971 mg/L	0.00160	0.23%
B 208.889†	1052.1	0.0543 mg/L		0.00158	0.0543 mg/L	0.00158	2.91%
Ba 233.527†	459232.0	2.628 mg/L		0.0077	2.628 mg/L	0.0077	0.29%
Be 313.107†	6923.9	0.0121 mg/L		0.00006	0.0121 mg/L	0.00006	0.51%
Ca 317.933†	2829358.2	407.0 mg/L		0.51	407.0 mg/L	0.51	0.13%
Cd 228.802†	1273.1	0.0090 mg/L		0.00019	0.0090 mg/L	0.00019	2.09%
Co 228.616†	16373.2	0.1312 mg/L		0.00116	0.1312 mg/L	0.00116	0.89%
Cr 267.716†	57542.6	0.4387 mg/L		0.00097	0.4387 mg/L	0.00097	0.22%
Cu 327.393†	459947.1	2.586 mg/L		0.0129	2.586 mg/L	0.0129	0.50%
Fe 238.204†	1526044.8	642.4 mg/L		1.76	642.4 mg/L	1.76	0.27%
K 766.490†	129102.3	39.00 mg/L		0.062	39.00 mg/L	0.062	0.16%
Mg 285.213†	2080940.5	242.6 mg/L		0.59	242.6 mg/L	0.59	0.24%
Mn 257.610†	106909.9	4.328 mg/L		0.0100	4.328 mg/L	0.0100	0.23%
Mo 202.031†	938.2	0.0373 mg/L		0.00069	0.0373 mg/L	0.00069	1.84%
Na 589.592†	60279.3	4.957 mg/L		0.0186	4.957 mg/L	0.0186	0.37%
Ni 231.604†	12672.0	0.3182 mg/L		0.00162	0.3182 mg/L	0.00162	0.51%
Pb 220.353†	174994.6	14.05 mg/L		0.048	14.05 mg/L	0.048	0.34%
Sb 206.836†	13.2	0.0260 mg/L		0.00279	0.0260 mg/L	0.00279	10.74%
Se 196.026†	173.3	0.0162 mg/L		0.00328	0.0162 mg/L	0.00328	20.24%
Sn 189.927†	724.1	0.0840 mg/L		0.00013	0.0840 mg/L	0.00013	0.15%
Ti 337.279†	272893.4	14.40 mg/L		0.021	14.40 mg/L	0.021	0.15%
Tl 351.924†	-4414.4	-0.0066 mg/L		0.00464	-0.0066 mg/L	0.00464	70.08%
V 290.880†	167489.2	0.7130 mg/L		0.00283	0.7130 mg/L	0.00283	0.40%
Zn 206.200†	134534.6	1.824 mg/L		0.0020	1.824 mg/L	0.0020	0.11%
Zr 343.823†	62784.3	0.1241 mg/L		0.00114	0.1241 mg/L	0.00114	0.92%

Sequence No.: 93

Autosampler Location: 99

Sample ID: B371474-SRL1

Date Collected: 4/17/2024 8:00:05 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

B371474-PS1

Sample Prep Vol:

Wash Time: 230

TYPO- JLC 04/18/24

Auto Dilution Factor: 1

Mean Data: B371474-SRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4749223.2	86.43	%	0.708				0.82%
Y radial	179091.6	93.21	%	0.581				0.62%
Ag 328.068†	556974.5	1.899	mg/L	0.0059	1.899	mg/L	0.0059	0.31%
Al 396.153†	717510.1	185.6	mg/L	0.58	185.6	mg/L	0.58	0.31%
As 188.979†	6769.8	2.392	mg/L	0.0304	2.392	mg/L	0.0304	1.27%
B 208.889†	60974.4	3.164	mg/L	0.0425	3.164	mg/L	0.0425	1.34%
Ba 233.527†	702739.2	4.061	mg/L	0.0057	4.061	mg/L	0.0057	0.14%
Be 313.107†	792521.2	1.783	mg/L	0.0042	1.783	mg/L	0.0042	0.23%
Ca 317.933†	2393912.2	344.3	mg/L	2.10	344.3	mg/L	2.10	0.61%
Cd 228.802†	210471.6	1.816	mg/L	0.0030	1.816	mg/L	0.0030	0.16%
Co 228.616†	185695.1	1.804	mg/L	0.0045	1.804	mg/L	0.0045	0.25%
Cr 267.716†	296385.7	2.266	mg/L	0.0043	2.266	mg/L	0.0043	0.19%
Cu 327.393†	1207980.3	6.792	mg/L	0.0526	6.792	mg/L	0.0526	0.77%
Fe 238.204†	1666458.5	701.6	mg/L	3.40	701.6	mg/L	3.40	0.49%
K 766.490†	191628.4	57.88	mg/L	0.164	57.88	mg/L	0.164	0.28%
Mg 285.213†	1866174.3	217.6	mg/L	0.70	217.6	mg/L	0.70	0.32%
Mn 257.610†	167381.3	6.753	mg/L	0.0249	6.753	mg/L	0.0249	0.37%
Mo 202.031†	44437.8	1.765	mg/L	0.0122	1.765	mg/L	0.0122	0.69%
Na 589.592†	228658.2	18.80	mg/L	0.059	18.80	mg/L	0.059	0.31%
Ni 231.604†	83272.6	2.089	mg/L	0.0147	2.089	mg/L	0.0147	0.70%
Pb 220.353†	183780.5	14.75	mg/L	0.036	14.75	mg/L	0.036	0.25%
Sb 206.836†	11323.3	1.792	mg/L	0.0184	1.792	mg/L	0.0184	1.03%
Se 196.026†	3576.4	1.722	mg/L	0.0216	1.722	mg/L	0.0216	1.25%
Sn 189.927†	14935.0	1.735	mg/L	0.0201	1.735	mg/L	0.0201	1.16%
Ti 337.279†	327329.8	17.27	mg/L	0.042	17.27	mg/L	0.042	0.24%
Tl 351.924†	16116.3	1.743	mg/L	0.0258	1.743	mg/L	0.0258	1.48%
V 290.880†	565978.0	2.502	mg/L	0.0023	2.502	mg/L	0.0023	0.09%
Zn 206.200†	366315.5	5.036	mg/L	0.0208	5.036	mg/L	0.0208	0.41%
Zr 343.823†	58580.6	0.1134	mg/L	0.00116	0.1134	mg/L	0.00116	1.02%

Sequence No.: 94

Autosampler Location: 100

Sample ID: B371474-DUP1

Date Collected: 4/17/2024 8:05:48 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

B371474-SRL1

Sample Prep Vol:

Wash Time: 230

TYPO- JLC 04/18/24

Auto Dilution Factor: 1

Mean Data: B371474-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5080314.1	92.46	%	0.091				0.10%
Y radial	186559.7	97.10	%	1.864				1.92%
Ag 328.068†	-2963.1	-0.0060	mg/L	0.00017	-0.0060	mg/L	0.00017	2.79%
Al 396.153†	150199.2	38.87	mg/L	0.175	38.87	mg/L	0.175	0.45%
As 188.979†	168.2	0.1378	mg/L	0.00130	0.1378	mg/L	0.00130	0.95%
B 208.889†	-1534.1	-0.0821	mg/L	0.00037	-0.0821	mg/L	0.00037	0.45%
Ba 233.527†	88342.1	0.4985	mg/L	0.00659	0.4985	mg/L	0.00659	1.32%
Be 313.107†	1567.2	0.0028	mg/L	0.00013	0.0028	mg/L	0.00013	4.63%
Ca 317.933†	515533.7	74.16	mg/L	0.538	74.16	mg/L	0.538	0.73%
Cd 228.802†	210.4	0.0024	mg/L	0.00005	0.0024	mg/L	0.00005	2.21%
Co 228.616†	4221.2	0.0345	mg/L	0.00030	0.0345	mg/L	0.00030	0.86%
Cr 267.716†	14603.9	0.1113	mg/L	0.00096	0.1113	mg/L	0.00096	0.86%
Cu 327.393†	99574.0	0.5599	mg/L	0.00666	0.5599	mg/L	0.00666	1.19%
Fe 238.204†	419193.6	176.5	mg/L	1.27	176.5	mg/L	1.27	0.72%
K 766.490†	29484.9	8.906	mg/L	0.0427	8.906	mg/L	0.0427	0.48%
Mg 285.213†	395946.9	46.20	mg/L	0.270	46.20	mg/L	0.270	0.59%
Mn 257.610†	27332.1	1.108	mg/L	0.0186	1.108	mg/L	0.0186	1.68%
Mo 202.031†	130.4	0.0052	mg/L	0.00037	0.0052	mg/L	0.00037	7.19%

Na 589.592†	12557.9	1.033 mg/L	0.0030	1.033 mg/L	0.0030	0.29%
Ni 231.604†	4329.8	0.1087 mg/L	0.00037	0.1087 mg/L	0.00037	0.34%
Pb 220.353†	38003.9	3.051 mg/L	0.0359	3.051 mg/L	0.0359	1.18%
Sb 206.836†	14.5	0.0087 mg/L	0.00040	0.0087 mg/L	0.00040	4.56%
Se 196.026†	45.9	0.0116 mg/L	0.00084	0.0116 mg/L	0.00084	7.26%
Sn 189.927†	-84.3	-0.0098 mg/L	0.00019	-0.0098 mg/L	0.00019	1.98%
Ti 337.279†	64078.2	3.382 mg/L	0.0145	3.382 mg/L	0.0145	0.43%
Tl 351.924†	-1253.6	-0.0031 mg/L	0.00381	-0.0031 mg/L	0.00381	123.47%
V 290.880†	34773.7	0.1451 mg/L	0.00218	0.1451 mg/L	0.00218	1.50%
Zn 206.200†	29471.3	0.3972 mg/L	0.00476	0.3972 mg/L	0.00476	1.20%
Zr 343.823†	12028.5	0.0225 mg/L	0.00056	0.0225 mg/L	0.00056	2.47%

Sequence No.: 95

Sample ID: 24D1364-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 101

Date Collected: 4/17/2024 8:11:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4827834.9	87.87	%	0.376			0.43%
Y radial	176627.2	91.93	%	1.758			1.91%
Ag 328.068†	-16361.5	-0.0391	mg/L	0.00036	-0.0391 mg/L	0.00036	0.93%
Al 396.153†	732141.5	189.4	mg/L	4.17	189.4 mg/L	4.17	2.20%
As 188.979†	1009.8	0.6759	mg/L	0.00611	0.6759 mg/L	0.00611	0.90%
B 208.889†	580.0	0.0297	mg/L	0.00178	0.0297 mg/L	0.00178	5.97%
Ba 233.527†	415742.8	2.363	mg/L	0.0051	2.363 mg/L	0.0051	0.22%
Be 313.107†	7495.7	0.0133	mg/L	0.00027	0.0133 mg/L	0.00027	2.00%
Ca 317.933†	2373318.3	341.4	mg/L	7.50	341.4 mg/L	7.50	2.20%
Cd 228.802†	1036.7	0.0087	mg/L	0.00019	0.0087 mg/L	0.00019	2.17%
Co 228.616†	18792.2	0.1516	mg/L	0.00165	0.1516 mg/L	0.00165	1.09%
Cr 267.716†	68642.4	0.5232	mg/L	0.00140	0.5232 mg/L	0.00140	0.27%
Cu 327.393†	525803.3	2.957	mg/L	0.0035	2.957 mg/L	0.0035	0.12%
Fe 238.204†	1668606.1	702.5	mg/L	15.31	702.5 mg/L	15.31	2.18%
K 766.490†	147495.3	44.55	mg/L	1.030	44.55 mg/L	1.030	2.31%
Mg 285.213†	1793830.6	209.2	mg/L	4.68	209.2 mg/L	4.68	2.24%
Mn 257.610†	125693.9	5.085	mg/L	0.0624	5.085 mg/L	0.0624	1.23%
Mo 202.031†	599.0	0.0238	mg/L	0.00039	0.0238 mg/L	0.00039	1.64%
Na 589.592†	63341.4	5.209	mg/L	0.0364	5.209 mg/L	0.0364	0.70%
Ni 231.604†	18868.6	0.4739	mg/L	0.00210	0.4739 mg/L	0.00210	0.44%
Pb 220.353†	166547.6	13.37	mg/L	0.007	13.37 mg/L	0.007	0.06%
Sb 206.836†	38.7	0.0313	mg/L	0.00653	0.0313 mg/L	0.00653	20.85%
Se 196.026†	134.1	0.0119	mg/L	0.00381	0.0119 mg/L	0.00381	32.09%
Sn 189.927†	858.8	0.0997	mg/L	0.00244	0.0997 mg/L	0.00244	2.44%
Ti 337.279†	302746.1	15.98	mg/L	0.381	15.98 mg/L	0.381	2.38%
Tl 351.924†	-6511.8	-0.1496	mg/L	0.00867	-0.1496 mg/L	0.00867	5.79%
V 290.880†	169285.4	0.7173	mg/L	0.00266	0.7173 mg/L	0.00266	0.37%
Zn 206.200†	132145.3	1.787	mg/L	0.0020	1.787 mg/L	0.0020	0.11%
Zr 343.823†	59208.8	0.1148	mg/L	0.00039	0.1148 mg/L	0.00039	0.34%

Sequence No.: 96

Sample ID: 24D1364-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 102

Date Collected: 4/17/2024 8:18:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4961912.1	90.31	%	0.863			0.96%
Y radial	181558.0	94.49	%	0.841			0.89%
Ag 328.068†	-10214.2	-0.0222	mg/L	0.00067	-0.0222 mg/L	0.00067	3.02%
Al 396.153†	1054063.7	272.7	mg/L	5.09	272.7 mg/L	5.09	1.87%

As 188.979†	346.1	0.4621 mg/L	0.00817	0.4621 mg/L	0.00817	1.77%
B 208.889†	546.1	0.0280 mg/L	0.00202	0.0280 mg/L	0.00202	7.22%
Ba 233.527†	607916.4	3.521 mg/L	0.0203	3.521 mg/L	0.0203	0.58%
Be 313.107†	12692.4	0.0246 mg/L	0.00008	0.0246 mg/L	0.00008	0.34%
Ca 317.933†	1255971.6	180.7 mg/L	3.24	180.7 mg/L	3.24	1.79%
Cd 228.802†	898.5	0.0090 mg/L	0.00015	0.0090 mg/L	0.00015	1.66%
Co 228.616†	25687.5	0.2105 mg/L	0.00270	0.2105 mg/L	0.00270	1.28%
Cr 267.716†	94381.9	0.7187 mg/L	0.00553	0.7187 mg/L	0.00553	0.77%
Cu 327.393†	461799.6	2.597 mg/L	0.0089	2.597 mg/L	0.0089	0.34%
Fe 238.204†	1244372.4	523.9 mg/L	8.68	523.9 mg/L	8.68	1.66%
K 766.490†	194757.3	58.83 mg/L	1.131	58.83 mg/L	1.131	1.92%
Mg 285.213†	1263897.3	147.4 mg/L	2.78	147.4 mg/L	2.78	1.88%
Mn 257.610†	207915.2	8.361 mg/L	0.0302	8.361 mg/L	0.0302	0.36%
Mo 202.031†	544.0	0.0216 mg/L	0.00031	0.0216 mg/L	0.00031	1.42%
Na 589.592†	49192.5	4.046 mg/L	0.0113	4.046 mg/L	0.0113	0.28%
Ni 231.604†	22911.4	0.5751 mg/L	0.00579	0.5751 mg/L	0.00579	1.01%
Pb 220.353†	48648.2	3.916 mg/L	0.0295	3.916 mg/L	0.0295	0.75%
Sb 206.836†	12.4	0.0154 mg/L	0.00117	0.0154 mg/L	0.00117	7.59%
Se 196.026†	79.2	0.0066 mg/L	0.00385	0.0066 mg/L	0.00385	58.67%
Sn 189.927†	1163.0	0.1351 mg/L	0.00282	0.1351 mg/L	0.00282	2.09%
Ti 337.279†	384738.0	20.30 mg/L	0.413	20.30 mg/L	0.413	2.03%
Tl 351.924†	-3614.9	-0.0368 mg/L	0.00536	-0.0368 mg/L	0.00536	14.54%
V 290.880†	191016.2	0.8299 mg/L	0.00573	0.8299 mg/L	0.00573	0.69%
Zn 206.200†	279819.7	3.849 mg/L	0.0322	3.849 mg/L	0.0322	0.84%
Zr 343.823†	39585.4	0.0754 mg/L	0.00081	0.0754 mg/L	0.00081	1.07%

Sequence No.: 97

Sample ID: 24D1364-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 103

Date Collected: 4/17/2024 8:24:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4887070.8	88.94	%	0.148				0.17%
Y radial	181323.2	94.37	%	1.059				1.12%
Ag 328.068†	-23342.5	-0.0552	mg/L	0.00105	-0.0552	mg/L	0.00105	1.90%
Al 396.153†	1849227.8	478.5	mg/L	9.92	478.5	mg/L	9.92	2.07%
As 188.979†	-454.5	0.4332	mg/L	0.00886	0.4332	mg/L	0.00886	2.05%
B 208.889†	21047.9	1.108	mg/L	0.0140	1.108	mg/L	0.0140	1.27%
Ba 233.527†	1095523.1	6.315	mg/L	0.0125	6.315	mg/L	0.0125	0.20%
Be 313.107†	33468.7	0.0694	mg/L	0.00045	0.0694	mg/L	0.00045	0.65%
Ca 317.933†	2082354.4	299.5	mg/L	5.12	299.5	mg/L	5.12	1.71%
Cd 228.802†	1224.1	0.0301	mg/L	0.00024	0.0301	mg/L	0.00024	0.81%
Co 228.616†	84605.4	0.7865	mg/L	0.00151	0.7865	mg/L	0.00151	0.19%
Cr 267.716†	221797.3	1.692	mg/L	0.0027	1.692	mg/L	0.0027	0.16%
Cu 327.393†	2882931.8	16.21	mg/L	0.012	16.21	mg/L	0.012	0.08%
Fe 238.204†	2786957.3	1173	mg/L	17.80	1173	mg/L	17.80	1.52%
K 766.490†	162628.3	49.12	mg/L	0.265	49.12	mg/L	0.265	0.54%
Mg 285.213†	982475.1	115.2	mg/L	2.17	115.2	mg/L	2.17	1.88%
Mn 257.610†	279880.6	11.29	mg/L	0.046	11.29	mg/L	0.046	0.41%
Mo 202.031†	7310.1	0.2903	mg/L	0.00300	0.2903	mg/L	0.00300	1.03%
Na 589.592†	203175.4	16.71	mg/L	0.092	16.71	mg/L	0.092	0.55%
Ni 231.604†	205872.9	5.167	mg/L	0.0103	5.167	mg/L	0.0103	0.20%
Pb 220.353†	115351.2	9.259	mg/L	0.0101	9.259	mg/L	0.0101	0.11%
Sb 206.836†	67.1	0.0445	mg/L	0.01076	0.0445	mg/L	0.01076	24.15%
Se 196.026†	100.0	0.0324	mg/L	0.01262	0.0324	mg/L	0.01262	38.96%
Sn 189.927†	11547.4	1.341	mg/L	0.0039	1.341	mg/L	0.0039	0.29%
Ti 337.279†	424388.3	22.40	mg/L	0.067	22.40	mg/L	0.067	0.30%
Tl 351.924†	-10583.7	-0.2114	mg/L	0.00844	-0.2114	mg/L	0.00844	3.99%
V 290.880†	297784.9	1.264	mg/L	0.0031	1.264	mg/L	0.0031	0.25%
Zn 206.200†	1564841.5	21.63	mg/L	0.044	21.63	mg/L	0.044	0.21%
Zr 343.823†	259705.3	0.5489	mg/L	0.00168	0.5489	mg/L	0.00168	0.31%

Sequence No.: 98

Autosampler Location: 104

Sample ID: 24D1364-06

Date Collected: 4/17/2024 8:30:20 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 230

Auto Dilution Factor: 1

Mean Data: 24D1364-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5083895.3	92.53	%	0.345				0.37%
Y radial	184160.2	95.85	%	1.331				1.39%
Ag 328.068†	-10414.7	-0.0217	mg/L	0.00067	-0.0217	mg/L	0.00067	3.10%
Al 396.153†	1318475.3	341.1	mg/L	1.41	341.1	mg/L	1.41	0.41%
As 188.979†	-749.8	0.1610	mg/L	0.00518	0.1610	mg/L	0.00518	3.22%
B 208.889†	-593.8	-0.0315	mg/L	0.00163	-0.0315	mg/L	0.00163	5.16%
Ba 233.527†	363126.0	2.075	mg/L	0.0071	2.075	mg/L	0.0071	0.34%
Be 313.107†	7287.6	0.0123	mg/L	0.00023	0.0123	mg/L	0.00023	1.85%
Ca 317.933†	419626.7	60.36	mg/L	0.207	60.36	mg/L	0.207	0.34%
Cd 228.802†	-295.3	0.0053	mg/L	0.00007	0.0053	mg/L	0.00007	1.28%
Co 228.616†	25610.3	0.2042	mg/L	0.00209	0.2042	mg/L	0.00209	1.02%
Cr 267.716†	68698.7	0.5234	mg/L	0.00200	0.5234	mg/L	0.00200	0.38%
Cu 327.393†	189267.0	1.064	mg/L	0.0050	1.064	mg/L	0.0050	0.47%
Fe 238.204†	1268639.5	534.1	mg/L	1.86	534.1	mg/L	1.86	0.35%
K 766.490†	203337.9	61.42	mg/L	0.234	61.42	mg/L	0.234	0.38%
Mg 285.213†	860999.8	100.6	mg/L	0.33	100.6	mg/L	0.33	0.33%
Mn 257.610†	144729.8	5.833	mg/L	0.0780	5.833	mg/L	0.0780	1.34%
Mo 202.031†	-83.6	-0.0033	mg/L	0.00041	-0.0033	mg/L	0.00041	12.28%
Na 589.592†	49135.2	4.041	mg/L	0.0622	4.041	mg/L	0.0622	1.54%
Ni 231.604†	16590.1	0.4165	mg/L	0.00273	0.4165	mg/L	0.00273	0.65%
Pb 220.353†	97215.8	7.828	mg/L	0.0314	7.828	mg/L	0.0314	0.40%
Sb 206.836†	-42.7	0.0109	mg/L	0.00359	0.0109	mg/L	0.00359	32.85%
Se 196.026†	50.0	0.0147	mg/L	0.00608	0.0147	mg/L	0.00608	41.26%
Sn 189.927†	1197.0	0.1390	mg/L	0.00177	0.1390	mg/L	0.00177	1.27%
Ti 337.279†	432862.1	22.84	mg/L	0.109	22.84	mg/L	0.109	0.48%
Tl 351.924†	-3345.3	-0.0162	mg/L	0.00621	-0.0162	mg/L	0.00621	38.46%
V 290.880†	194356.7	0.8452	mg/L	0.00220	0.8452	mg/L	0.00220	0.26%
Zn 206.200†	112390.8	1.525	mg/L	0.0063	1.525	mg/L	0.0063	0.41%
Zr 343.823†	27652.0	0.0487	mg/L	0.00007	0.0487	mg/L	0.00007	0.14%

Sequence No.: 99

Autosampler Location: 105

Sample ID: 24D1364-07

Date Collected: 4/17/2024 8:36:58 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 230

Auto Dilution Factor: 1

Mean Data: 24D1364-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5013064.1	91.24	%	0.067				0.07%
Y radial	182901.7	95.19	%	0.316				0.33%
Ag 328.068†	-10360.3	-0.0213	mg/L	0.00026	-0.0213	mg/L	0.00026	1.23%
Al 396.153†	909593.4	235.3	mg/L	2.42	235.3	mg/L	2.42	1.03%
As 188.979†	-137.5	0.2790	mg/L	0.00371	0.2790	mg/L	0.00371	1.33%
B 208.889†	-232.3	-0.0127	mg/L	0.00069	-0.0127	mg/L	0.00069	5.42%
Ba 233.527†	267556.2	1.507	mg/L	0.0019	1.507	mg/L	0.0019	0.13%
Be 313.107†	5562.7	0.0086	mg/L	0.00014	0.0086	mg/L	0.00014	1.65%
Ca 317.933†	564953.8	81.26	mg/L	0.754	81.26	mg/L	0.754	0.93%
Cd 228.802†	469.2	0.0097	mg/L	0.00015	0.0097	mg/L	0.00015	1.57%
Co 228.616†	22801.4	0.1923	mg/L	0.00066	0.1923	mg/L	0.00066	0.34%
Cr 267.716†	45456.1	0.3457	mg/L	0.00016	0.3457	mg/L	0.00016	0.05%
Cu 327.393†	254000.7	1.428	mg/L	0.0056	1.428	mg/L	0.0056	0.39%
Fe 238.204†	1323072.1	557.0	mg/L	4.63	557.0	mg/L	4.63	0.83%
K 766.490†	100397.9	30.33	mg/L	0.335	30.33	mg/L	0.335	1.10%
Mg 285.213†	786313.1	91.93	mg/L	0.912	91.93	mg/L	0.912	0.99%
Mn 257.610†	140301.5	5.658	mg/L	0.0623	5.658	mg/L	0.0623	1.10%
Mo 202.031†	133.8	0.0053	mg/L	0.00065	0.0053	mg/L	0.00065	12.31%

Na 589.592†	70940.9	5.834 mg/L	0.0594	5.834 mg/L	0.0594	1.02%
Ni 231.604†	12978.5	0.3259 mg/L	0.00083	0.3259 mg/L	0.00083	0.26%
Pb 220.353†	29690.6	2.391 mg/L	0.0072	2.391 mg/L	0.0072	0.30%
Sb 206.836†	-25.4	0.0178 mg/L	0.00075	0.0178 mg/L	0.00075	4.23%
Se 196.026†	50.5	0.0154 mg/L	0.00460	0.0154 mg/L	0.00460	29.90%
Sn 189.927†	728.6	0.0846 mg/L	0.00110	0.0846 mg/L	0.00110	1.30%
Ti 337.279†	292710.7	15.45 mg/L	0.173	15.45 mg/L	0.173	1.12%
Tl 351.924†	-3586.0	0.0038 mg/L	0.00364	0.0038 mg/L	0.00364	96.92%
V 290.880†	186999.5	0.8074 mg/L	0.00126	0.8074 mg/L	0.00126	0.16%
Zn 206.200†	122573.8	1.663 mg/L	0.0050	1.663 mg/L	0.0050	0.30%
Zr 343.823†	36217.3	0.0672 mg/L	0.00035	0.0672 mg/L	0.00035	0.52%

Sequence No.: 100

Sample ID: 24D1364-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 106

Date Collected: 4/17/2024 8:43:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4930299.8	89.73	%	1.035			1.15%
Y radial	181434.1	94.43	%	1.609			1.70%
Ag 328.068†	-14732.5	-0.0318	mg/L	0.00040	-0.0318 mg/L	0.00040	1.27%
Al 396.153†	896204.1	231.9	mg/L	6.65	231.9 mg/L	6.65	2.87%
As 188.979†	-81.0	0.3556	mg/L	0.01008	0.3556 mg/L	0.01008	2.83%
B 208.889†	6535.2	0.3473	mg/L	0.00582	0.3473 mg/L	0.00582	1.68%
Ba 233.527†	358164.8	2.018	mg/L	0.0320	2.018 mg/L	0.0320	1.58%
Be 313.107†	6756.7	0.0101	mg/L	0.00012	0.0101 mg/L	0.00012	1.17%
Ca 317.933†	1340165.2	192.8	mg/L	5.31	192.8 mg/L	5.31	2.75%
Cd 228.802†	1785.1	0.0234	mg/L	0.00030	0.0234 mg/L	0.00030	1.29%
Co 228.616†	27732.3	0.2404	mg/L	0.00468	0.2404 mg/L	0.00468	1.95%
Cr 267.716†	73879.3	0.5622	mg/L	0.00706	0.5622 mg/L	0.00706	1.26%
Cu 327.393†	840961.0	4.729	mg/L	0.0572	4.729 mg/L	0.0572	1.21%
Fe 238.204†	1761864.3	741.7	mg/L	18.49	741.7 mg/L	18.49	2.49%
K 766.490†	91806.5	27.73	mg/L	0.790	27.73 mg/L	0.790	2.85%
Mg 285.213†	1059717.8	123.9	mg/L	3.45	123.9 mg/L	3.45	2.78%
Mn 257.610†	199755.3	8.052	mg/L	0.0369	8.052 mg/L	0.0369	0.46%
Mo 202.031†	688.0	0.0273	mg/L	0.00074	0.0273 mg/L	0.00074	2.73%
Na 589.592†	81861.4	6.732	mg/L	0.1967	6.732 mg/L	0.1967	2.92%
Ni 231.604†	18918.6	0.4751	mg/L	0.00601	0.4751 mg/L	0.00601	1.27%
Pb 220.353†	52584.1	4.219	mg/L	0.0410	4.219 mg/L	0.0410	0.97%
Sb 206.836†	153.6	0.0515	mg/L	0.00360	0.0515 mg/L	0.00360	6.99%
Se 196.026†	39.8	-0.0022	mg/L	0.00565	-0.0022 mg/L	0.00565	258.11%
Sn 189.927†	1226.3	0.1424	mg/L	0.00271	0.1424 mg/L	0.00271	1.91%
Ti 337.279†	299088.9	15.78	mg/L	0.471	15.78 mg/L	0.471	2.98%
Tl 351.924†	-5449.7	-0.0353	mg/L	0.01663	-0.0353 mg/L	0.01663	47.07%
V 290.880†	239435.0	1.030	mg/L	0.0175	1.030 mg/L	0.0175	1.70%
Zn 206.200†	261199.9	3.574	mg/L	0.0515	3.574 mg/L	0.0515	1.44%
Zr 343.823†	43304.5	0.0785	mg/L	0.00143	0.0785 mg/L	0.00143	1.82%

Sequence No.: 101

Sample ID: 24D1392-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 107

Date Collected: 4/17/2024 8:50:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1392-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5293555.1	96.34	%	0.822			0.85%
Y radial	186091.7	96.85	%	2.267			2.34%
Ag 328.068†	-2907.4	-0.0056	mg/L	0.00026	-0.0056 mg/L	0.00026	4.56%
Al 396.153†	406083.7	105.1	mg/L	0.94	105.1 mg/L	0.94	0.89%

As	188.979†	-280.6	0.0368 mg/L	0.00126	0.0368 mg/L	0.00126	3.44%
B	208.889†	-2259.7	-0.1207 mg/L	0.00060	-0.1207 mg/L	0.00060	0.49%
Ba	233.527†	110186.8	0.6291 mg/L	0.00686	0.6291 mg/L	0.00686	1.09%
Be	313.107†	2112.5	0.0035 mg/L	0.00012	0.0035 mg/L	0.00012	3.30%
Ca	317.933†	133188.6	19.16 mg/L	0.228	19.16 mg/L	0.228	1.19%
Cd	228.802†	-38.5	0.0023 mg/L	0.00007	0.0023 mg/L	0.00007	2.89%
Co	228.616†	6580.2	0.0496 mg/L	0.00037	0.0496 mg/L	0.00037	0.75%
Cr	267.716†	17560.6	0.1337 mg/L	0.00127	0.1337 mg/L	0.00127	0.95%
Cu	327.393†	27073.1	0.1523 mg/L	0.00185	0.1523 mg/L	0.00185	1.22%
Fe	238.204†	392505.8	165.2 mg/L	2.00	165.2 mg/L	2.00	1.21%
K	766.490†	82060.2	24.79 mg/L	0.254	24.79 mg/L	0.254	1.02%
Mg	285.213†	266485.0	31.14 mg/L	0.275	31.14 mg/L	0.275	0.88%
Mn	257.610†	40046.2	1.615 mg/L	0.0238	1.615 mg/L	0.0238	1.47%
Mo	202.031†	63.2	0.0025 mg/L	0.00039	0.0025 mg/L	0.00039	15.49%
Na	589.592†	9970.3	0.8200 mg/L	0.01455	0.8200 mg/L	0.01455	1.77%
Ni	231.604†	4155.0	0.1043 mg/L	0.00113	0.1043 mg/L	0.00113	1.08%
Pb	220.353†	5129.8	0.4179 mg/L	0.00314	0.4179 mg/L	0.00314	0.75%
Sb	206.836†	-12.5	0.0038 mg/L	0.00125	0.0038 mg/L	0.00125	32.84%
Se	196.026†	3.4	-0.0014 mg/L	0.00258	-0.0014 mg/L	0.00258	180.89%
Sn	189.927†	0.9	0.0001 mg/L	0.00035	0.0001 mg/L	0.00035	396.74%
Ti	337.279†	136522.4	7.205 mg/L	0.0490	7.205 mg/L	0.0490	0.68%
Tl	351.924†	-971.5	-0.0001 mg/L	0.00358	-0.0001 mg/L	0.00358	>999.9%
V	290.880†	57413.2	0.2493 mg/L	0.00253	0.2493 mg/L	0.00253	1.01%
Zn	206.200†	33772.0	0.4578 mg/L	0.00449	0.4578 mg/L	0.00449	0.98%
Zr	343.823†	5874.3	0.0091 mg/L	0.00019	0.0091 mg/L	0.00019	2.06%

Sequence No.: 102

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 8:54:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

-SEE RERUN- JLC 04/18/24

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y axial	5294360.1	96.36	%	0.307			0.32%
Y radial	184321.6	95.93	%	0.707			0.74%
Ag 328.068†	661321.8	2.207	mg/L	0.0225	2.207	mg/L	1.02%
QC value	less than the lower limit for Ag 328.068			Recovery = 88.28%			
Al 396.153†	40330.5	10.18	mg/L	0.295	10.18	mg/L	2.90%
QC value	within limits for Al 396.153			Recovery = 101.82%			
As 188.979†	15468.0	4.625	mg/L	0.0157	4.625	mg/L	0.34%
QC value	within limits for As 188.979			Recovery = 92.51%			
B 208.889†	84032.1	4.244	mg/L	0.0114	4.244	mg/L	0.27%
QC value	less than the lower limit for B 208.889			Recovery = 84.88%			
Ba 233.527†	810959.1	4.797	mg/L	0.0103	4.797	mg/L	0.21%
QC value	within limits for Ba 233.527			Recovery = 95.93%			
Be 313.107†	2075103.6	4.678	mg/L	0.0141	4.678	mg/L	0.30%
QC value	within limits for Be 313.107			Recovery = 93.55%			
Ca 317.933†	67996.8	9.781	mg/L	0.2407	9.781	mg/L	2.46%
QC value	within limits for Ca 317.933			Recovery = 97.81%			
Cd 228.802†	551746.0	4.761	mg/L	0.0088	4.761	mg/L	0.18%
QC value	within limits for Cd 228.802			Recovery = 95.22%			
Co 228.616†	482676.1	4.776	mg/L	0.0094	4.776	mg/L	0.20%
QC value	within limits for Co 228.616			Recovery = 95.52%			
Cr 267.716†	624776.3	4.781	mg/L	0.0129	4.781	mg/L	0.27%
QC value	within limits for Cr 267.716			Recovery = 95.62%			
Cu 327.393†	814886.4	4.598	mg/L	0.0144	4.598	mg/L	0.31%
QC value	within limits for Cu 327.393			Recovery = 91.97%			
Fe 238.204†	12012.5	5.082	mg/L	0.1358	5.082	mg/L	2.67%
QC value	within limits for Fe 238.204			Recovery = 101.64%			
K 766.490†	31028.1	9.372	mg/L	0.2479	9.372	mg/L	2.65%
QC value	within limits for K 766.490			Recovery = 93.72%			
Mg 285.213†	85011.5	9.869	mg/L	0.2620	9.869	mg/L	2.65%
QC value	within limits for Mg 285.213			Recovery = 98.69%			
Mn 257.610†	125404.5	5.019	mg/L	0.1276	5.019	mg/L	2.54%
QC value	within limits for Mn 257.610			Recovery = 100.38%			

Mo 202.031†	119614.5	4.751 mg/L	0.0051	4.751 mg/L	0.0051	0.11%
QC value within limits for Mo 202.031			Recovery = 95.01%			
Na 589.592†	96386.5	7.927 mg/L	0.0259	7.927 mg/L	0.0259	0.33%
QC value less than the lower limit for Na 589.592			Recovery = 79.27%			
Ni 231.604†	190506.8	4.780 mg/L	0.0163	4.780 mg/L	0.0163	0.34%
QC value within limits for Ni 231.604			Recovery = 95.60%			
Pb 220.353†	59484.1	4.783 mg/L	0.0105	4.783 mg/L	0.0105	0.22%
QC value within limits for Pb 220.353			Recovery = 95.66%			
Sb 206.836†	29535.3	4.610 mg/L	0.0221	4.610 mg/L	0.0221	0.48%
QC value within limits for Sb 206.836			Recovery = 92.20%			
Se 196.026†	9267.4	4.607 mg/L	0.0127	4.607 mg/L	0.0127	0.28%
QC value within limits for Se 196.026			Recovery = 92.14%			
Sn 189.927†	41212.5	4.784 mg/L	0.0185	4.784 mg/L	0.0185	0.39%
QC value within limits for Sn 189.927			Recovery = 95.69%			
Ti 337.279†	91129.3	4.807 mg/L	0.1349	4.807 mg/L	0.1349	2.81%
QC value within limits for Ti 337.279			Recovery = 96.14%			
Tl 351.924†	27908.3	2.311 mg/L	0.0076	2.311 mg/L	0.0076	0.33%
QC value within limits for Tl 351.924			Recovery = 92.44%			
V 290.880†	1053418.0	4.740 mg/L	0.0073	4.740 mg/L	0.0073	0.15%
QC value within limits for V 290.880			Recovery = 94.81%			
Zn 206.200†	348954.2	4.864 mg/L	0.0118	4.864 mg/L	0.0118	0.24%
QC value within limits for Zn 206.200			Recovery = 97.28%			
Zr 343.823†	2116418.1	4.701 mg/L	0.0113	4.701 mg/L	0.0113	0.24%
QC Failed. Continue with analysis.						

=====SEE RERUN- JLC 04/18/24=====

Sequence No.: 103

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 9:00:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5410015.1	98.46 %	1.004			1.02%
Y radial	185923.1	96.76 %	1.732			1.79%
Ag 328.068†	1037.6	0.0035 mg/L	0.00031	0.0035 mg/L	0.00031	8.91%
QC value within limits for Ag 328.068			Recovery = Not calculated			
Al 396.153†	20.8	0.0053 mg/L	0.00705	0.0053 mg/L	0.00705	132.05%
QC value within limits for Al 396.153			Recovery = Not calculated			
As 188.979†	-16.1	-0.0048 mg/L	0.00071	-0.0048 mg/L	0.00071	15.00%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	-2291.4	-0.1223 mg/L	0.00051	-0.1223 mg/L	0.00051	0.42%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	9.7	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	65.61%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	-22.7	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	52.55%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	60.6	0.0087 mg/L	0.00105	0.0087 mg/L	0.00105	12.08%
QC value within limits for Ca 317.933			Recovery = Not calculated			
Cd 228.802†	-12.0	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	>999.9%
QC value within limits for Cd 228.802			Recovery = Not calculated			
Co 228.616†	-3.2	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	223.65%
QC value within limits for Co 228.616			Recovery = Not calculated			
Cr 267.716†	-31.7	-0.0002 mg/L	0.00022	-0.0002 mg/L	0.00022	89.41%
QC value within limits for Cr 267.716			Recovery = Not calculated			
Cu 327.393†	-1237.3	-0.0070 mg/L	0.00020	-0.0070 mg/L	0.00020	2.80%
QC value within limits for Cu 327.393			Recovery = Not calculated			
Fe 238.204†	12.6	0.0053 mg/L	0.00182	0.0053 mg/L	0.00182	34.24%
QC value within limits for Fe 238.204			Recovery = Not calculated			
K 766.490†	192.8	0.0582 mg/L	0.00869	0.0582 mg/L	0.00869	14.92%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	11.8	0.0014 mg/L	0.00028	0.0014 mg/L	0.00028	20.26%
QC value within limits for Mg 285.213			Recovery = Not calculated			
Mn 257.610†	-2.2	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	123.06%
QC value within limits for Mn 257.610			Recovery = Not calculated			
Mo 202.031†	26.1	0.0010 mg/L	0.00025	0.0010 mg/L	0.00025	24.53%

QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† 263.0 0.0216 mg/L 0.00101 0.0216 mg/L 0.00101 4.68%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -7.4 -0.0002 mg/L 0.00017 -0.0002 mg/L 0.00017 90.44%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 5.0 0.0004 mg/L 0.00007 0.0004 mg/L 0.00007 16.94%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -0.3 -0.0000 mg/L 0.00053 -0.0000 mg/L 0.00053 >999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 1.9 0.0009 mg/L 0.00111 0.0009 mg/L 0.00111 116.99%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 6.6 0.0008 mg/L 0.00046 0.0008 mg/L 0.00046 60.63%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† 18.3 0.0010 mg/L 0.00009 0.0010 mg/L 0.00009 8.94%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 58.5 0.0049 mg/L 0.00113 0.0049 mg/L 0.00113 22.97%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 211.1 0.0009 mg/L 0.00074 0.0009 mg/L 0.00074 77.63%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -74.7 -0.0011 mg/L 0.00016 -0.0011 mg/L 0.00016 14.94%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -140.6 -0.0003 mg/L 0.00010 -0.0003 mg/L 0.00010 33.26%
All analyte(s) passed QC.
User canceled analysis.

SEE RERUN- JLC 04/18/24

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Analysis Begun

Start Time: 4/17/2024 9:06:40 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 102

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/17/2024 9:06:41 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 110

Auto Dilution Factor: 1

=====

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5133209.0	93.42 %	0.451			0.48%
Y radial	188451.4	98.08 %	2.364			2.41%
Ag 328.068†	718800.7	2.400 mg/L	0.0057	2.400 mg/L	0.0057	0.24%
QC value within limits for Ag 328.068			96.02%			
Al 396.153†	37556.5	9.460 mg/L	0.1336	9.460 mg/L	0.1336	1.41%
QC value within limits for Al 396.153			94.60%			
As 188.979†	16056.8	4.799 mg/L	0.0129	4.799 mg/L	0.0129	0.27%
QC value within limits for As 188.979			95.98%			
B 208.889†	87625.7	4.432 mg/L	0.0210	4.432 mg/L	0.0210	0.47%
QC value less than the lower limit for B 208.889			Recovery = 88.65%			
Ba 233.527†	829533.1	4.907 mg/L	0.0279	4.907 mg/L	0.0279	0.57%
QC value within limits for Ba 233.527			98.13%			
Be 313.107†	2063404.7	4.651 mg/L	0.1620	4.651 mg/L	0.1620	3.48%
QC value within limits for Be 313.107			93.01%			
Ca 317.933†	65281.9	9.390 mg/L	0.1623	9.390 mg/L	0.1623	1.73%
QC value within limits for Ca 317.933			93.90%			
Cd 228.802†	565078.2	4.874 mg/L	0.0286	4.874 mg/L	0.0286	0.59%
QC value within limits for Cd 228.802			97.49%			
Co 228.616†	494979.8	4.898 mg/L	0.0276	4.898 mg/L	0.0276	0.56%
QC value within limits for Co 228.616			97.96%			
Cr 267.716†	637761.0	4.880 mg/L	0.0244	4.880 mg/L	0.0244	0.50%

QC value within limits for Cr 267.716 Recovery = 97.61%
 Cu 327.393† 834074.9 4.707 mg/L 0.0149 4.707 mg/L 0.0149 0.32%
 QC value within limits for Cu 327.393 Recovery = 94.13%
 Fe 238.204† 11137.7 4.715 mg/L 0.0728 4.715 mg/L 0.0728 1.54%
 QC value within limits for Fe 238.204 Recovery = 94.29%
 K 766.490† 30737.9 9.285 mg/L 0.1404 9.285 mg/L 0.1404 1.51%
 QC value within limits for K 766.490 Recovery = 92.85%
 Mg 285.213† 80112.4 9.299 mg/L 0.1232 9.299 mg/L 0.1232 1.32%
 QC value within limits for Mg 285.213 Recovery = 92.99%
 Mn 257.610† 118125.7 4.728 mg/L 0.0706 4.728 mg/L 0.0706 1.49%
 QC value within limits for Mn 257.610 Recovery = 94.55%
 Mo 202.031† 121388.7 4.821 mg/L 0.0186 4.821 mg/L 0.0186 0.38%
 QC value within limits for Mo 202.031 Recovery = 96.42%
 Na 589.592† 106067.6 8.723 mg/L 0.3248 8.723 mg/L 0.3248 3.72%
 QC value less than the lower limit for Na 589.592 Recovery = 87.23%
 Ni 231.604† 195158.5 4.897 mg/L 0.0226 4.897 mg/L 0.0226 0.46%
 QC value within limits for Ni 231.604 Recovery = 97.93%
 Pb 220.353† 61272.1 4.927 mg/L 0.0032 4.927 mg/L 0.0032 0.06%
 QC value within limits for Pb 220.353 Recovery = 98.53%
 Sb 206.836† 30449.2 4.753 mg/L 0.0071 4.753 mg/L 0.0071 0.15%
 QC value within limits for Sb 206.836 Recovery = 95.06%
 Se 196.026† 9671.3 4.808 mg/L 0.0166 4.808 mg/L 0.0166 0.35%
 QC value within limits for Se 196.026 Recovery = 96.16%
 Sn 189.927† 42067.7 4.884 mg/L 0.0095 4.884 mg/L 0.0095 0.19%
 QC value within limits for Sn 189.927 Recovery = 97.67%
 Ti 337.279† 88037.4 4.644 mg/L 0.0626 4.644 mg/L 0.0626 1.35%
 QC value within limits for Ti 337.279 Recovery = 92.87%
 Tl 351.924† 28630.9 2.371 mg/L 0.0063 2.371 mg/L 0.0063 0.27%
 QC value within limits for Tl 351.924 Recovery = 94.86%
 V 290.880† 1079398.6 4.857 mg/L 0.0242 4.857 mg/L 0.0242 0.50%
 QC value within limits for V 290.880 Recovery = 97.14%
 Zn 206.200† 360808.2 5.028 mg/L 0.0254 5.028 mg/L 0.0254 0.51%
 QC value within limits for Zn 206.200 Recovery = 100.56%
 Zr 343.823† 2153184.0 4.783 mg/L 0.0231 4.783 mg/L 0.0231 0.48%
 QC Failed. Continue with analysis.
 User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 9:11:51 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 103

Autosampler Location: 1

Sample ID: SEQ-CCB@ 23J0970

Date Collected: 4/17/2024 9:11:52 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 230

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5212803.2	94.87 %	0.943			0.99%
Y radial	184777.1	96.17 %	0.975			1.01%
Ag 328.068†	529.3	0.0018 mg/L	0.00024	0.0018 mg/L	0.00024	13.58%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 396.153†	6.3	0.0016 mg/L	0.00834	0.0016 mg/L	0.00834	533.60%
QC value within limits for Al 396.153		Recovery =	Not calculated			
As 188.979†	-15.6	-0.0046 mg/L	0.00072	-0.0046 mg/L	0.00072	15.52%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 208.889†	-2250.3	-0.1201 mg/L	0.00025	-0.1201 mg/L	0.00025	0.21%

QC value within limits for B 208.889	Recovery = Not calculated		
Ba 233.527†	2.1 0.0000 mg/L	0.00006	0.0000 mg/L 0.00006 363.03%
QC value within limits for Ba 233.527	Recovery = Not calculated		
Be 313.107†	-14.6 -0.0000 mg/L	0.00002	-0.0000 mg/L 0.00002 52.90%
QC value within limits for Be 313.107	Recovery = Not calculated		
Ca 317.933†	19.0 0.0027 mg/L	0.00148	0.0027 mg/L 0.00148 54.05%
QC value within limits for Ca 317.933	Recovery = Not calculated		
Cd 228.802†	-3.6 0.0001 mg/L	0.00007	0.0001 mg/L 0.00007 100.16%
QC value within limits for Cd 228.802	Recovery = Not calculated		
Co 228.616†	-4.5 -0.0000 mg/L	0.00011	-0.0000 mg/L 0.00011 259.24%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-5.1 -0.0000 mg/L	0.00011	-0.0000 mg/L 0.00011 277.66%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 327.393†	-1160.5 -0.0065 mg/L	0.00023	-0.0065 mg/L 0.00023 3.55%
QC value within limits for Cu 327.393	Recovery = Not calculated		
Fe 238.204†	-0.3 -0.0001 mg/L	0.00178	-0.0001 mg/L 0.00178 >999.9%
QC value within limits for Fe 238.204	Recovery = Not calculated		
K 766.490†	232.9 0.0703 mg/L	0.01101	0.0703 mg/L 0.01101 15.66%
QC value within limits for K 766.490	Recovery = Not calculated		
Mg 285.213†	2.6 0.0003 mg/L	0.00019	0.0003 mg/L 0.00019 60.27%
QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610†	-0.4 -0.0000 mg/L	0.00012	-0.0000 mg/L 0.00012 775.39%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	36.3 0.0014 mg/L	0.00004	0.0014 mg/L 0.00004 2.64%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592†	276.6 0.0227 mg/L	0.00364	0.0227 mg/L 0.00364 16.02%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604†	3.9 0.0001 mg/L	0.00011	0.0001 mg/L 0.00011 116.70%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353†	17.8 0.0014 mg/L	0.00098	0.0014 mg/L 0.00098 68.01%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836†	6.2 0.0010 mg/L	0.00035	0.0010 mg/L 0.00035 35.03%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	4.1 0.0021 mg/L	0.00136	0.0021 mg/L 0.00136 65.96%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927†	7.0 0.0008 mg/L	0.00018	0.0008 mg/L 0.00018 22.56%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279†	31.1 0.0016 mg/L	0.00027	0.0016 mg/L 0.00027 16.72%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924†	68.5 0.0058 mg/L	0.00638	0.0058 mg/L 0.00638 110.87%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880†	349.6 0.0016 mg/L	0.00050	0.0016 mg/L 0.00050 32.07%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200†	-45.5 -0.0006 mg/L	0.00012	-0.0006 mg/L 0.00012 18.05%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823†	-47.7 -0.0001 mg/L	0.00002	-0.0001 mg/L 0.00002 16.50%

All analyte(s) passed QC.

User canceled analysis.

=====
Analysis Begun

Start Time: 4/17/2024 9:16:27 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 104

Autosampler Location: 108

Sample ID: 24D1392-02

Date Collected: 4/17/2024 9:16:27 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

Mean Data: 24D1392-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5027044.7	91.49	%	3.836				4.19%
Y radial	183531.3	95.52	%	2.879				3.01%
Ag 328.068†	-5689.1	-0.0122	mg/L	0.00120	-0.0122	mg/L	0.00120	9.90%
Al 396.153†	913732.8	236.4	mg/L	8.06	236.4	mg/L	8.06	3.41%
As 188.979†	-716.1	0.0465	mg/L	0.01873	0.0465	mg/L	0.01873	40.27%
B 208.889†	-2151.1	-0.1147	mg/L	0.00136	-0.1147	mg/L	0.00136	1.18%
Ba 233.527†	294936.3	1.705	mg/L	0.0767	1.705	mg/L	0.0767	4.50%
Be 313.107†	3681.9	0.0054	mg/L	0.00048	0.0054	mg/L	0.00048	8.88%
Ca 317.933†	212771.7	30.61	mg/L	1.070	30.61	mg/L	1.070	3.50%
Cd 228.802†	-347.2	0.0020	mg/L	0.00007	0.0020	mg/L	0.00007	3.42%
Co 228.616†	14746.8	0.1078	mg/L	0.00746	0.1078	mg/L	0.00746	6.92%
Cr 267.716†	41425.6	0.3146	mg/L	0.01339	0.3146	mg/L	0.01339	4.26%
Cu 327.393†	52479.6	0.2952	mg/L	0.01384	0.2952	mg/L	0.01384	4.69%
Fe 238.204†	679267.2	286.0	mg/L	9.60	286.0	mg/L	9.60	3.36%
K 766.490†	224898.8	67.93	mg/L	2.401	67.93	mg/L	2.401	3.53%
Mg 285.213†	669109.7	78.08	mg/L	2.704	78.08	mg/L	2.704	3.46%
Mn 257.610†	144293.8	5.797	mg/L	0.1814	5.797	mg/L	0.1814	3.13%
Mo 202.031†	-13.3	-0.0005	mg/L	0.00063	-0.0005	mg/L	0.00063	118.74%
Na 589.592†	16896.4	1.390	mg/L	0.0430	1.390	mg/L	0.0430	3.10%
Ni 231.604†	8496.5	0.2133	mg/L	0.00938	0.2133	mg/L	0.00938	4.40%
Pb 220.353†	877.8	0.0851	mg/L	0.00376	0.0851	mg/L	0.00376	4.42%
Sb 206.836†	-40.7	0.0022	mg/L	0.00168	0.0022	mg/L	0.00168	78.03%
Se 196.026†	25.2	0.0017	mg/L	0.00294	0.0017	mg/L	0.00294	168.15%
Sn 189.927†	-177.5	-0.0207	mg/L	0.00078	-0.0207	mg/L	0.00078	3.78%
Ti 337.279†	336309.0	17.75	mg/L	0.620	17.75	mg/L	0.620	3.49%
Tl 351.924†	-1845.0	-0.0326	mg/L	0.01012	-0.0326	mg/L	0.01012	31.08%
V 290.880†	134466.6	0.5916	mg/L	0.02770	0.5916	mg/L	0.02770	4.68%
Zn 206.200†	51365.1	0.6948	mg/L	0.03379	0.6948	mg/L	0.03379	4.86%
Zr 343.823†	20445.6	0.0386	mg/L	0.00284	0.0386	mg/L	0.00284	7.37%

Sequence No.: 105

Sample ID: 24D1392-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 109

Date Collected: 4/17/2024 9:21:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1392-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5066750.3	92.21	%	0.557				0.60%
Y radial	182135.3	94.79	%	0.213				0.22%
Ag 328.068†	-2708.2	-0.0058	mg/L	0.00018	-0.0058	mg/L	0.00018	3.08%
Al 396.153†	427729.0	110.7	mg/L	0.74	110.7	mg/L	0.74	0.67%
As 188.979†	-247.1	0.0492	mg/L	0.00179	0.0492	mg/L	0.00179	3.63%
B 208.889†	-2107.1	-0.1133	mg/L	0.00047	-0.1133	mg/L	0.00047	0.41%
Ba 233.527†	93088.3	0.5264	mg/L	0.00253	0.5264	mg/L	0.00253	0.48%
Be 313.107†	2000.5	0.0032	mg/L	0.00012	0.0032	mg/L	0.00012	3.85%
Ca 317.933†	32444.1	4.667	mg/L	0.0488	4.667	mg/L	0.0488	1.04%
Cd 228.802†	-75.2	0.0023	mg/L	0.00022	0.0023	mg/L	0.00022	9.54%
Co 228.616†	14592.0	0.1292	mg/L	0.00025	0.1292	mg/L	0.00025	0.19%
Cr 267.716†	17540.6	0.1315	mg/L	0.00088	0.1315	mg/L	0.00088	0.67%
Cu 327.393†	35425.1	0.1992	mg/L	0.00044	0.1992	mg/L	0.00044	0.22%
Fe 238.204†	424878.7	178.9	mg/L	0.76	178.9	mg/L	0.76	0.42%
K 766.490†	79739.9	24.09	mg/L	0.177	24.09	mg/L	0.177	0.74%
Mg 285.213†	267169.3	31.23	mg/L	0.163	31.23	mg/L	0.163	0.52%
Mn 257.610†	163995.3	6.577	mg/L	0.0354	6.577	mg/L	0.0354	0.54%
Mo 202.031†	434.9	0.0173	mg/L	0.00039	0.0173	mg/L	0.00039	2.25%
Na 589.592†	6675.8	0.5490	mg/L	0.01378	0.5490	mg/L	0.01378	2.51%
Ni 231.604†	4525.7	0.1136	mg/L	0.00076	0.1136	mg/L	0.00076	0.67%
Pb 220.353†	1334.6	0.1128	mg/L	0.00123	0.1128	mg/L	0.00123	1.09%
Sb 206.836†	-21.7	0.0031	mg/L	0.00195	0.0031	mg/L	0.00195	62.32%
Se 196.026†	15.0	0.0049	mg/L	0.00273	0.0049	mg/L	0.00273	55.41%
Sn 189.927†	109.1	0.0127	mg/L	0.00046	0.0127	mg/L	0.00046	3.67%
Ti 337.279†	134044.2	7.074	mg/L	0.0454	7.074	mg/L	0.0454	0.64%

Tl 351.924†	-1036.8	0.0037 mg/L	0.00586	0.0037 mg/L	0.00586	159.32%
V 290.880†	60479.5	0.2621 mg/L	0.00137	0.2621 mg/L	0.00137	0.52%
Zn 206.200†	40700.0	0.5529 mg/L	0.00155	0.5529 mg/L	0.00155	0.28%
Zr 343.823†	8474.3	0.0146 mg/L	0.00011	0.0146 mg/L	0.00011	0.75%

Sequence No.: 106
Sample ID: 24D1392-04
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 110
Date Collected: 4/17/2024 9:25:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1392-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5137746.8	93.51 %		0.787			0.84%
Y radial	178887.7	93.10 %		1.835			1.97%
Ag 328.068†	-2704.6	-0.0049 mg/L		0.00034	-0.0049 mg/L	0.00034	6.95%
Al 396.153†	369237.7	95.53 mg/L		1.782	95.53 mg/L	1.782	1.87%
As 188.979†	-212.7	0.0518 mg/L		0.00332	0.0518 mg/L	0.00332	6.40%
B 208.889†	-2143.6	-0.1145 mg/L		0.00024	-0.1145 mg/L	0.00024	0.21%
Ba 233.527†	83620.0	0.4715 mg/L		0.00316	0.4715 mg/L	0.00316	0.67%
Be 313.107†	1843.2	0.0030 mg/L		0.00016	0.0030 mg/L	0.00016	5.34%
Ca 317.933†	67698.6	9.738 mg/L		0.2529	9.738 mg/L	0.2529	2.60%
Cd 228.802†	632.7	0.0079 mg/L		0.00005	0.0079 mg/L	0.00005	0.69%
Co 228.616†	5675.1	0.0421 mg/L		0.00009	0.0421 mg/L	0.00009	0.22%
Cr 267.716†	19589.7	0.1492 mg/L		0.00139	0.1492 mg/L	0.00139	0.93%
Cu 327.393†	36557.7	0.2056 mg/L		0.00271	0.2056 mg/L	0.00271	1.32%
Fe 238.204†	404927.0	170.5 mg/L		3.25	170.5 mg/L	3.25	1.91%
K 766.490†	67099.1	20.27 mg/L		0.355	20.27 mg/L	0.355	1.75%
Mg 285.213†	246734.1	28.85 mg/L		0.543	28.85 mg/L	0.543	1.88%
Mn 257.610†	40753.4	1.644 mg/L		0.0405	1.644 mg/L	0.0405	2.47%
Mo 202.031†	83.3	0.0033 mg/L		0.00010	0.0033 mg/L	0.00010	2.97%
Na 589.592†	6835.8	0.5622 mg/L		0.01426	0.5622 mg/L	0.01426	2.54%
Ni 231.604†	3679.2	0.0924 mg/L		0.00113	0.0924 mg/L	0.00113	1.22%
Pb 220.353†	11627.0	0.9387 mg/L		0.00823	0.9387 mg/L	0.00823	0.88%
Sb 206.836†	-11.3	0.0040 mg/L		0.00075	0.0040 mg/L	0.00075	18.83%
Se 196.026†	10.9	0.0039 mg/L		0.00201	0.0039 mg/L	0.00201	51.73%
Sn 189.927†	136.5	0.0158 mg/L		0.00052	0.0158 mg/L	0.00052	3.28%
Ti 337.279†	123871.8	6.537 mg/L		0.1119	6.537 mg/L	0.1119	1.71%
Tl 351.924†	-1030.9	0.0007 mg/L		0.00537	0.0007 mg/L	0.00537	784.85%
V 290.880†	53487.4	0.2310 mg/L		0.00198	0.2310 mg/L	0.00198	0.86%
Zn 206.200†	102735.7	1.414 mg/L		0.0123	1.414 mg/L	0.0123	0.87%
Zr 343.823†	6049.5	0.0094 mg/L		0.00026	0.0094 mg/L	0.00026	2.73%

Sequence No.: 107
Sample ID: 24D1392-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 111
Date Collected: 4/17/2024 9:30:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1392-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5079660.1	92.45 %		0.529			0.57%
Y radial	179423.2	93.38 %		0.282			0.30%
Ag 328.068†	-3020.1	-0.0057 mg/L		0.00018	-0.0057 mg/L	0.00018	3.22%
Al 396.153†	413337.0	106.9 mg/L		0.76	106.9 mg/L	0.76	0.71%
As 188.979†	-268.4	0.0464 mg/L		0.00086	0.0464 mg/L	0.00086	1.86%
B 208.889†	-2166.2	-0.1157 mg/L		0.00099	-0.1157 mg/L	0.00099	0.86%
Ba 233.527†	102647.6	0.5828 mg/L		0.00587	0.5828 mg/L	0.00587	1.01%
Be 313.107†	1951.6	0.0031 mg/L		0.00014	0.0031 mg/L	0.00014	4.37%
Ca 317.933†	109614.9	15.77 mg/L		0.142	15.77 mg/L	0.142	0.90%
Cd 228.802†	422.0	0.0064 mg/L		0.00001	0.0064 mg/L	0.00001	0.15%
Co 228.616†	6434.6	0.0477 mg/L		0.00016	0.0477 mg/L	0.00016	0.34%

Cr 267.716†	18095.9	0.1378 mg/L	0.00071	0.1378 mg/L	0.00071	0.52%
Cu 327.393†	34195.3	0.1923 mg/L	0.00163	0.1923 mg/L	0.00163	0.85%
Fe 238.204†	424471.4	178.7 mg/L	1.53	178.7 mg/L	1.53	0.86%
K 766.490†	83135.6	25.11 mg/L	0.173	25.11 mg/L	0.173	0.69%
Mg 285.213†	267532.8	31.27 mg/L	0.252	31.27 mg/L	0.252	0.81%
Mn 257.610†	41119.3	1.659 mg/L	0.0219	1.659 mg/L	0.0219	1.32%
Mo 202.031†	65.1	0.0026 mg/L	0.00016	0.0026 mg/L	0.00016	6.28%
Na 589.592†	7965.9	0.6551 mg/L	0.00687	0.6551 mg/L	0.00687	1.05%
Ni 231.604†	3775.5	0.0948 mg/L	0.00019	0.0948 mg/L	0.00019	0.20%
Pb 220.353†	10344.8	0.8366 mg/L	0.00371	0.8366 mg/L	0.00371	0.44%
Sb 206.836†	-21.6	0.0030 mg/L	0.00058	0.0030 mg/L	0.00058	19.38%
Se 196.026†	14.8	0.0050 mg/L	0.00027	0.0050 mg/L	0.00027	5.39%
Sn 189.927†	51.2	0.0059 mg/L	0.00077	0.0059 mg/L	0.00077	12.97%
Ti 337.279†	140276.3	7.403 mg/L	0.0600	7.403 mg/L	0.0600	0.81%
Tl 351.924†	-1098.8	-0.0028 mg/L	0.00226	-0.0028 mg/L	0.00226	81.17%
V 290.880†	61247.3	0.2657 mg/L	0.00291	0.2657 mg/L	0.00291	1.09%
Zn 206.200†	85383.0	1.173 mg/L	0.0117	1.173 mg/L	0.0117	1.00%
Zr 343.823†	6129.5	0.0094 mg/L	0.00011	0.0094 mg/L	0.00011	1.23%

Sequence No.: 108

Sample ID: 24D1473-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 112

Date Collected: 4/17/2024 9:35:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1473-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5146727.9	93.67 %	1.375			1.47%
Y radial	181198.1	94.31 %	1.117			1.18%
Ag 328.068†	-2163.0	-0.0051 mg/L	0.00041	-0.0051 mg/L	0.00041	8.19%
Al 396.153†	290279.1	75.10 mg/L	0.163	75.10 mg/L	0.163	0.22%
As 188.979†	-258.9	0.0240 mg/L	0.00211	0.0240 mg/L	0.00211	8.81%
B 208.889†	-2228.2	-0.1187 mg/L	0.00041	-0.1187 mg/L	0.00041	0.35%
Ba 233.527†	94051.5	0.5416 mg/L	0.00686	0.5416 mg/L	0.00686	1.27%
Be 313.107†	1289.2	0.0021 mg/L	0.00007	0.0021 mg/L	0.00007	3.12%
Ca 317.933†	153549.9	22.09 mg/L	0.036	22.09 mg/L	0.036	0.16%
Cd 228.802†	-76.5	0.0011 mg/L	0.00014	0.0011 mg/L	0.00014	12.86%
Co 228.616†	6538.6	0.0496 mg/L	0.00058	0.0496 mg/L	0.00058	1.18%
Cr 267.716†	11299.0	0.0856 mg/L	0.00128	0.0856 mg/L	0.00128	1.50%
Cu 327.393†	16589.2	0.0934 mg/L	0.00178	0.0934 mg/L	0.00178	1.91%
Fe 238.204†	250622.2	105.5 mg/L	0.11	105.5 mg/L	0.11	0.10%
K 766.490†	56338.7	17.02 mg/L	0.044	17.02 mg/L	0.044	0.26%
Mg 285.213†	229327.4	26.76 mg/L	0.036	26.76 mg/L	0.036	0.13%
Mn 257.610†	50977.4	2.048 mg/L	0.0270	2.048 mg/L	0.0270	1.32%
Mo 202.031†	-64.8	-0.0026 mg/L	0.00013	-0.0026 mg/L	0.00013	5.16%
Na 589.592†	7389.0	0.6077 mg/L	0.00732	0.6077 mg/L	0.00732	1.20%
Ni 231.604†	2785.8	0.0699 mg/L	0.00084	0.0699 mg/L	0.00084	1.20%
Pb 220.353†	457.0	0.0405 mg/L	0.00169	0.0405 mg/L	0.00169	4.18%
Sb 206.836†	1.2	0.0039 mg/L	0.00139	0.0039 mg/L	0.00139	35.93%
Se 196.026†	12.0	0.0013 mg/L	0.00134	0.0013 mg/L	0.00134	103.07%
Sn 189.927†	15.8	0.0018 mg/L	0.00089	0.0018 mg/L	0.00089	49.41%
Ti 337.279†	133201.3	7.030 mg/L	0.0151	7.030 mg/L	0.0151	0.21%
Tl 351.924†	-817.3	-0.0249 mg/L	0.00004	-0.0249 mg/L	0.00004	0.16%
V 290.880†	37006.3	0.1617 mg/L	0.00290	0.1617 mg/L	0.00290	1.79%
Zn 206.200†	17430.3	0.2350 mg/L	0.00268	0.2350 mg/L	0.00268	1.14%
Zr 343.823†	14222.5	0.0291 mg/L	0.00012	0.0291 mg/L	0.00012	0.42%

Sequence No.: 109

Sample ID: 24D1473-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 113

Date Collected: 4/17/2024 9:39:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1473-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4996038.1	90.93	%	1.193				1.31%
Y radial	184974.0	96.27	%	3.880				4.03%
Ag 328.068†	-2122.4	-0.0049	mg/L	0.00034	-0.0049	mg/L	0.00034	6.94%
Al 396.153†	283915.0	73.46	mg/L	3.314	73.46	mg/L	3.314	4.51%
As 188.979†	-284.5	0.0128	mg/L	0.00320	0.0128	mg/L	0.00320	25.00%
B 208.889†	-2245.6	-0.1197	mg/L	0.00048	-0.1197	mg/L	0.00048	0.40%
Ba 233.527†	86447.5	0.4967	mg/L	0.00820	0.4967	mg/L	0.00820	1.65%
Be 313.107†	1522.1	0.0026	mg/L	0.00019	0.0026	mg/L	0.00019	7.04%
Ca 317.933†	134964.2	19.41	mg/L	0.826	19.41	mg/L	0.826	4.26%
Cd 228.802†	-82.8	0.0013	mg/L	0.00014	0.0013	mg/L	0.00014	11.07%
Co 228.616†	6225.9	0.0472	mg/L	0.00069	0.0472	mg/L	0.00069	1.46%
Cr 267.716†	11206.7	0.0850	mg/L	0.00170	0.0850	mg/L	0.00170	2.00%
Cu 327.393†	13833.4	0.0779	mg/L	0.00107	0.0779	mg/L	0.00107	1.38%
Fe 238.204†	250527.4	105.5	mg/L	4.58	105.5	mg/L	4.58	4.34%
K 766.490†	47726.2	14.42	mg/L	0.626	14.42	mg/L	0.626	4.35%
Mg 285.213†	213524.6	24.93	mg/L	1.102	24.93	mg/L	1.102	4.42%
Mn 257.610†	47601.9	1.913	mg/L	0.0581	1.913	mg/L	0.0581	3.03%
Mo 202.031†	-68.9	-0.0027	mg/L	0.00030	-0.0027	mg/L	0.00030	11.10%
Na 589.592†	7010.6	0.5766	mg/L	0.02089	0.5766	mg/L	0.02089	3.62%
Ni 231.604†	2620.1	0.0658	mg/L	0.00095	0.0658	mg/L	0.00095	1.44%
Pb 220.353†	593.6	0.0514	mg/L	0.00075	0.0514	mg/L	0.00075	1.45%
Sb 206.836†	8.7	0.0051	mg/L	0.00098	0.0051	mg/L	0.00098	19.32%
Se 196.026†	1.7	-0.0031	mg/L	0.00105	-0.0031	mg/L	0.00105	33.39%
Sn 189.927†	17.8	0.0020	mg/L	0.00057	0.0020	mg/L	0.00057	27.79%
Ti 337.279†	126587.0	6.681	mg/L	0.2943	6.681	mg/L	0.2943	4.41%
Tl 351.924†	-931.2	-0.0334	mg/L	0.00702	-0.0334	mg/L	0.00702	21.03%
V 290.880†	37402.8	0.1634	mg/L	0.00390	0.1634	mg/L	0.00390	2.39%
Zn 206.200†	20837.0	0.2822	mg/L	0.00539	0.2822	mg/L	0.00539	1.91%
Zr 343.823†	14897.0	0.0306	mg/L	0.00050	0.0306	mg/L	0.00050	1.62%

Sequence No.: 110

Sample ID: 24D1513-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 114

Date Collected: 4/17/2024 9:44:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1513-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4956875.0	90.21	%	0.629				0.70%
Y radial	176071.2	91.64	%	0.839				0.92%
Ag 328.068†	-2505.6	-0.0059	mg/L	0.00051	-0.0059	mg/L	0.00051	8.67%
Al 396.153†	258455.9	66.88	mg/L	0.823	66.88	mg/L	0.823	1.23%
As 188.979†	5794.0	1.859	mg/L	0.0097	1.859	mg/L	0.0097	0.52%
B 208.889†	5188.2	0.2748	mg/L	0.00284	0.2748	mg/L	0.00284	1.03%
Ba 233.527†	174892.8	0.9902	mg/L	0.00776	0.9902	mg/L	0.00776	0.78%
Be 313.107†	16546.6	0.0362	mg/L	0.00050	0.0362	mg/L	0.00050	1.39%
Ca 317.933†	813977.4	117.1	mg/L	1.09	117.1	mg/L	1.09	0.93%
Cd 228.802†	3966.2	0.0010	mg/L	0.00011	0.0010	mg/L	0.00011	11.14%
Co 228.616†	20801.1	0.1998	mg/L	0.00136	0.1998	mg/L	0.00136	0.68%
Cr 267.716†	34477.0	0.2570	mg/L	0.00166	0.2570	mg/L	0.00166	0.65%
Cu 327.393†	283937.8	1.597	mg/L	0.0101	1.597	mg/L	0.0101	0.63%
Fe 238.204†	769060.4	323.8	mg/L	3.00	323.8	mg/L	3.00	0.93%
K 766.490†	20338.4	6.144	mg/L	0.1089	6.144	mg/L	0.1089	1.77%
Mg 285.213†	102256.0	12.12	mg/L	0.141	12.12	mg/L	0.141	1.16%
Mn 257.610†	395433.8	15.85	mg/L	0.179	15.85	mg/L	0.179	1.13%
Mo 202.031†	998.4	0.0397	mg/L	0.00033	0.0397	mg/L	0.00033	0.84%
Na 589.592†	178436.0	14.67	mg/L	0.177	14.67	mg/L	0.177	1.20%
Ni 231.604†	31721.6	0.7961	mg/L	0.00507	0.7961	mg/L	0.00507	0.64%
Pb 220.353†	2456.6	0.1919	mg/L	0.00166	0.1919	mg/L	0.00166	0.87%
Sb 206.836†	-1.2	0.0108	mg/L	0.00030	0.0108	mg/L	0.00030	2.76%
Se 196.026†	131.1	0.0571	mg/L	0.00389	0.0571	mg/L	0.00389	6.82%
Sn 189.927†	218.3	0.0252	mg/L	0.00052	0.0252	mg/L	0.00052	2.09%
Ti 337.279†	49912.6	2.634	mg/L	0.0283	2.634	mg/L	0.0283	1.07%

Tl 351.924†	-2010.4	0.0308 mg/L	0.00019	0.0308 mg/L	0.00019	0.62%
V 290.880†	57447.5	0.2361 mg/L	0.00244	0.2361 mg/L	0.00244	1.03%
Zn 206.200†	139146.9	1.908 mg/L	0.0183	1.908 mg/L	0.0183	0.96%
Zr 343.823†	91693.9	0.1960 mg/L	0.00104	0.1960 mg/L	0.00104	0.53%

Sequence No.: 111
Sample ID: 24D1653-01
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 115
Date Collected: 4/17/2024 9:49:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1653-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5128295.5	93.33 %		0.390			0.42%
Y radial	181903.4	94.67 %		3.514			3.71%
Ag 328.068†	-1648.5	-0.0038 mg/L		0.00018	-0.0038 mg/L	0.00018	4.71%
Al 396.153†	230675.1	59.68 mg/L		2.884	59.68 mg/L	2.884	4.83%
As 188.979†	-249.8	0.0123 mg/L		0.00349	0.0123 mg/L	0.00349	28.38%
B 208.889†	-2277.4	-0.1214 mg/L		0.00064	-0.1214 mg/L	0.00064	0.53%
Ba 233.527†	58902.3	0.3370 mg/L		0.00320	0.3370 mg/L	0.00320	0.95%
Be 313.107†	1085.3	0.0018 mg/L		0.00006	0.0018 mg/L	0.00006	3.23%
Ca 317.933†	141635.2	20.37 mg/L		1.035	20.37 mg/L	1.035	5.08%
Cd 228.802†	-65.9	0.0010 mg/L		0.00006	0.0010 mg/L	0.00006	6.26%
Co 228.616†	5899.0	0.0449 mg/L		0.00098	0.0449 mg/L	0.00098	2.18%
Cr 267.716†	9140.9	0.0694 mg/L		0.00049	0.0694 mg/L	0.00049	0.70%
Cu 327.393†	11544.1	0.0650 mg/L		0.00082	0.0650 mg/L	0.00082	1.26%
Fe 238.204†	197834.4	83.28 mg/L		4.203	83.28 mg/L	4.203	5.05%
K 766.490†	38547.7	11.64 mg/L		0.561	11.64 mg/L	0.561	4.81%
Mg 285.213†	164404.5	19.19 mg/L		0.951	19.19 mg/L	0.951	4.95%
Mn 257.610†	35790.6	1.439 mg/L		0.0536	1.439 mg/L	0.0536	3.73%
Mo 202.031†	-45.3	-0.0018 mg/L		0.00006	-0.0018 mg/L	0.00006	3.41%
Na 589.592†	6805.8	0.5597 mg/L		0.02833	0.5597 mg/L	0.02833	5.06%
Ni 231.604†	2172.5	0.0546 mg/L		0.00033	0.0546 mg/L	0.00033	0.61%
Pb 220.353†	386.6	0.0339 mg/L		0.00052	0.0339 mg/L	0.00052	1.54%
Sb 206.836†	7.1	0.0040 mg/L		0.00194	0.0040 mg/L	0.00194	48.38%
Se 196.026†	4.8	-0.0012 mg/L		0.00157	-0.0012 mg/L	0.00157	135.84%
Sn 189.927†	45.1	0.0052 mg/L		0.00109	0.0052 mg/L	0.00109	20.99%
Ti 337.279†	118262.2	6.241 mg/L		0.3077	6.241 mg/L	0.3077	4.93%
Tl 351.924†	-751.3	-0.0310 mg/L		0.00751	-0.0310 mg/L	0.00751	24.22%
V 290.880†	29758.4	0.1304 mg/L		0.00209	0.1304 mg/L	0.00209	1.60%
Zn 206.200†	12675.8	0.1705 mg/L		0.00186	0.1705 mg/L	0.00186	1.09%
Zr 343.823†	13154.4	0.0272 mg/L		0.00025	0.0272 mg/L	0.00025	0.93%

Sequence No.: 112
Sample ID: 24D1653-02
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 116
Date Collected: 4/17/2024 9:53:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1653-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5184141.6	94.35 %		0.352			0.37%
Y radial	180940.5	94.17 %		1.269			1.35%
Ag 328.068†	-1675.1	-0.0038 mg/L		0.00024	-0.0038 mg/L	0.00024	6.29%
Al 396.153†	234616.9	60.70 mg/L		0.173	60.70 mg/L	0.173	0.29%
As 188.979†	-237.2	0.0155 mg/L		0.00209	0.0155 mg/L	0.00209	13.50%
B 208.889†	-2326.2	-0.1240 mg/L		0.00055	-0.1240 mg/L	0.00055	0.44%
Ba 233.527†	52614.2	0.2996 mg/L		0.00411	0.2996 mg/L	0.00411	1.37%
Be 313.107†	1067.4	0.0018 mg/L		0.00014	0.0018 mg/L	0.00014	7.55%
Ca 317.933†	121873.1	17.53 mg/L		0.044	17.53 mg/L	0.044	0.25%
Cd 228.802†	-65.3	0.0010 mg/L		0.00008	0.0010 mg/L	0.00008	8.28%
Co 228.616†	5923.9	0.0454 mg/L		0.00031	0.0454 mg/L	0.00031	0.69%

Cr 267.716†	8275.1	0.0627 mg/L	0.00027	0.0627 mg/L	0.00027	0.43%
Cu 327.393†	11311.6	0.0637 mg/L	0.00078	0.0637 mg/L	0.00078	1.22%
Fe 238.204†	201916.1	85.00 mg/L	0.153	85.00 mg/L	0.153	0.18%
K 766.490†	33938.6	10.25 mg/L	0.142	10.25 mg/L	0.142	1.38%
Mg 285.213†	159415.0	18.61 mg/L	0.034	18.61 mg/L	0.034	0.18%
Mn 257.610†	36005.8	1.448 mg/L	0.0203	1.448 mg/L	0.0203	1.40%
Mo 202.031†	-52.1	-0.0021 mg/L	0.00008	-0.0021 mg/L	0.00008	3.76%
Na 589.592†	6034.3	0.4963 mg/L	0.00595	0.4963 mg/L	0.00595	1.20%
Ni 231.604†	2132.4	0.0536 mg/L	0.00039	0.0536 mg/L	0.00039	0.72%
Pb 220.353†	294.1	0.0266 mg/L	0.00128	0.0266 mg/L	0.00128	4.80%
Sb 206.836†	9.6	0.0046 mg/L	0.00109	0.0046 mg/L	0.00109	23.66%
Se 196.026†	6.6	0.0002 mg/L	0.00157	0.0002 mg/L	0.00157	877.63%
Sn 189.927†	57.0	0.0066 mg/L	0.00057	0.0066 mg/L	0.00057	8.60%
Ti 337.279†	116238.0	6.134 mg/L	0.0191	6.134 mg/L	0.0191	0.31%
Tl 351.924†	-811.6	-0.0346 mg/L	0.00672	-0.0346 mg/L	0.00672	19.43%
V 290.880†	28388.8	0.1241 mg/L	0.00249	0.1241 mg/L	0.00249	2.01%
Zn 206.200†	12539.7	0.1684 mg/L	0.00107	0.1684 mg/L	0.00107	0.64%
Zr 343.823†	12734.5	0.0263 mg/L	0.00047	0.0263 mg/L	0.00047	1.77%

Sequence No.: 113
Sample ID: 24D1668-01
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 117
Date Collected: 4/17/2024 9:58:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1668-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5100917.8	92.84 %		0.591			0.64%
Y radial	183027.9	95.26 %		0.414			0.43%
Ag 328.068†	-2802.5	-0.0056 mg/L		0.00058	-0.0056 mg/L	0.00058	10.29%
Al 396.153†	310446.9	80.32 mg/L		0.363	80.32 mg/L	0.363	0.45%
As 188.979†	12.4	0.0983 mg/L		0.00185	0.0983 mg/L	0.00185	1.88%
B 208.889†	-1282.8	-0.0687 mg/L		0.00060	-0.0687 mg/L	0.00060	0.87%
Ba 233.527†	73973.9	0.4160 mg/L		0.00391	0.4160 mg/L	0.00391	0.94%
Be 313.107†	1711.2	0.0029 mg/L		0.00007	0.0029 mg/L	0.00007	2.32%
Ca 317.933†	503232.8	72.39 mg/L		0.355	72.39 mg/L	0.355	0.49%
Cd 228.802†	805.2	0.0083 mg/L		0.00003	0.0083 mg/L	0.00003	0.36%
Co 228.616†	5957.3	0.0490 mg/L		0.00023	0.0490 mg/L	0.00023	0.47%
Cr 267.716†	14630.4	0.1115 mg/L		0.00147	0.1115 mg/L	0.00147	1.32%
Cu 327.393†	72026.1	0.4050 mg/L		0.00491	0.4050 mg/L	0.00491	1.21%
Fe 238.204†	378863.7	159.5 mg/L		0.76	159.5 mg/L	0.76	0.48%
K 766.490†	16986.2	5.131 mg/L		0.0442	5.131 mg/L	0.0442	0.86%
Mg 285.213†	250668.6	29.28 mg/L		0.123	29.28 mg/L	0.123	0.42%
Mn 257.610†	31004.1	1.253 mg/L		0.0078	1.253 mg/L	0.0078	0.62%
Mo 202.031†	144.2	0.0057 mg/L		0.00030	0.0057 mg/L	0.00030	5.31%
Na 589.592†	65915.1	5.421 mg/L		0.0179	5.421 mg/L	0.0179	0.33%
Ni 231.604†	3561.3	0.0894 mg/L		0.00054	0.0894 mg/L	0.00054	0.61%
Pb 220.353†	16086.2	1.296 mg/L		0.0178	1.296 mg/L	0.0178	1.38%
Sb 206.836†	29.8	0.0105 mg/L		0.00056	0.0105 mg/L	0.00056	5.30%
Se 196.026†	18.2	0.0007 mg/L		0.00250	0.0007 mg/L	0.00250	343.40%
Sn 189.927†	63.1	0.0073 mg/L		0.00179	0.0073 mg/L	0.00179	24.50%
Ti 337.279†	87331.2	4.609 mg/L		0.0353	4.609 mg/L	0.0353	0.77%
Tl 351.924†	-1163.2	-0.0108 mg/L		0.00772	-0.0108 mg/L	0.00772	71.21%
V 290.880†	43749.0	0.1872 mg/L		0.00223	0.1872 mg/L	0.00223	1.19%
Zn 206.200†	152493.7	2.104 mg/L		0.0211	2.104 mg/L	0.0211	1.00%
Zr 343.823†	9201.6	0.0166 mg/L		0.00146	0.0166 mg/L	0.00146	8.79%

Sequence No.: 114
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 5
Date Collected: 4/17/2024 10:03:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5061626.2	92.12 %	1.912			2.08%
Y radial	176577.2	91.90 %	0.501			0.55%
Ag 328.068†	708942.2	2.367 mg/L	0.0328	2.367 mg/L	0.0328	1.39%
QC value within limits for Ag 328.068		Recovery = 94.70%				
Al 396.153†	39210.4	9.890 mg/L	0.0892	9.890 mg/L	0.0892	0.90%
QC value within limits for Al 396.153		Recovery = 98.90%				
As 188.979†	15655.8	4.681 mg/L	0.1051	4.681 mg/L	0.1051	2.25%
QC value within limits for As 188.979		Recovery = 93.62%				
B 208.889†	85179.7	4.303 mg/L	0.0649	4.303 mg/L	0.0649	1.51%
QC value less than the lower limit for B 208.889		Recovery = 86.07%				
Ba 233.527†	819629.4	4.848 mg/L	0.0671	4.848 mg/L	0.0671	1.38%
QC value within limits for Ba 233.527		Recovery = 96.96%				
Be 313.107†	2059091.0	4.641 mg/L	0.0404	4.641 mg/L	0.0404	0.87%
QC value within limits for Be 313.107		Recovery = 92.82%				
Ca 317.933†	67476.4	9.706 mg/L	0.0414	9.706 mg/L	0.0414	0.43%
QC value within limits for Ca 317.933		Recovery = 97.06%				
Cd 228.802†	560791.8	4.839 mg/L	0.0777	4.839 mg/L	0.0777	1.61%
QC value within limits for Cd 228.802		Recovery = 96.78%				
Co 228.616†	488400.2	4.833 mg/L	0.0708	4.833 mg/L	0.0708	1.46%
QC value within limits for Co 228.616		Recovery = 96.65%				
Cr 267.716†	632378.6	4.839 mg/L	0.0691	4.839 mg/L	0.0691	1.43%
QC value within limits for Cr 267.716		Recovery = 96.78%				
Cu 327.393†	819788.0	4.626 mg/L	0.0607	4.626 mg/L	0.0607	1.31%
QC value within limits for Cu 327.393		Recovery = 92.52%				
Fe 238.204†	11590.5	4.905 mg/L	0.0258	4.905 mg/L	0.0258	0.53%
QC value within limits for Fe 238.204		Recovery = 98.10%				
K 766.490†	31430.3	9.494 mg/L	0.0749	9.494 mg/L	0.0749	0.79%
QC value within limits for K 766.490		Recovery = 94.94%				
Mg 285.213†	82866.8	9.620 mg/L	0.0624	9.620 mg/L	0.0624	0.65%
QC value within limits for Mg 285.213		Recovery = 96.20%				
Mn 257.610†	122095.9	4.886 mg/L	0.0220	4.886 mg/L	0.0220	0.45%
QC value within limits for Mn 257.610		Recovery = 97.73%				
Mo 202.031†	120588.8	4.789 mg/L	0.0636	4.789 mg/L	0.0636	1.33%
QC value within limits for Mo 202.031		Recovery = 95.79%				
Na 589.592†	103016.6	8.472 mg/L	0.0662	8.472 mg/L	0.0662	0.78%
QC value less than the lower limit for Na 589.592		Recovery = 84.72%				
Ni 231.604†	192601.6	4.832 mg/L	0.0678	4.832 mg/L	0.0678	1.40%
QC value within limits for Ni 231.604		Recovery = 96.65%				
Pb 220.353†	60450.2	4.861 mg/L	0.1066	4.861 mg/L	0.1066	2.19%
QC value within limits for Pb 220.353		Recovery = 97.21%				
Sb 206.836†	29999.5	4.683 mg/L	0.1029	4.683 mg/L	0.1029	2.20%
QC value within limits for Sb 206.836		Recovery = 93.65%				
Se 196.026†	9406.2	4.676 mg/L	0.1003	4.676 mg/L	0.1003	2.15%
QC value within limits for Se 196.026		Recovery = 93.52%				
Sn 189.927†	41655.0	4.836 mg/L	0.1028	4.836 mg/L	0.1028	2.13%
QC value within limits for Sn 189.927		Recovery = 96.71%				
Ti 337.279†	90529.6	4.775 mg/L	0.0294	4.775 mg/L	0.0294	0.62%
QC value within limits for Ti 337.279		Recovery = 95.50%				
Tl 351.924†	28380.2	2.350 mg/L	0.0496	2.350 mg/L	0.0496	2.11%
QC value within limits for Tl 351.924		Recovery = 94.02%				
V 290.880†	1065380.9	4.794 mg/L	0.0713	4.794 mg/L	0.0713	1.49%
QC value within limits for V 290.880		Recovery = 95.88%				
Zn 206.200†	355015.5	4.948 mg/L	0.0759	4.948 mg/L	0.0759	1.53%
QC value within limits for Zn 206.200		Recovery = 98.95%				
Zr 343.823†	2124115.3	4.718 mg/L	0.0611	4.718 mg/L	0.0611	1.30%
QC Failed. Continue with analysis.						

Sequence No.: 115

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 10:08:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5217092.0	94.95 %	0.896			0.94%
Y radial	181400.4	94.41 %	0.247			0.26%
Ag 328.068†	637.7	0.0021 mg/L	0.00018	0.0021 mg/L	0.00018	8.16%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-12.0	-0.0032 mg/L	0.01144	-0.0032 mg/L	0.01144	362.19%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-10.5	-0.0031 mg/L	0.00153	-0.0031 mg/L	0.00153	49.65%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2360.3	-0.1260 mg/L	0.00040	-0.1260 mg/L	0.00040	0.32%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	11.4	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	106.31%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-41.5	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	22.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	39.3	0.0056 mg/L	0.00004	0.0056 mg/L	0.00004	0.64%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-10.3	-0.0000 mg/L	0.00005	-0.0000 mg/L	0.00005	214.08%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-4.8	-0.0000 mg/L	0.00009	-0.0000 mg/L	0.00009	193.87%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-20.5	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	59.53%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-1227.6	-0.0069 mg/L	0.00051	-0.0069 mg/L	0.00051	7.43%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	5.4	0.0023 mg/L	0.00092	0.0023 mg/L	0.00092	39.97%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	213.8	0.0646 mg/L	0.01862	0.0646 mg/L	0.01862	28.84%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	8.2	0.0010 mg/L	0.00015	0.0010 mg/L	0.00015	15.92%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	0.4	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	935.43%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	28.8	0.0011 mg/L	0.00020	0.0011 mg/L	0.00020	17.16%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	103.7	0.0085 mg/L	0.00187	0.0085 mg/L	0.00187	21.87%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	2.3	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	242.08%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	12.8	0.0010 mg/L	0.00043	0.0010 mg/L	0.00043	40.94%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	2.7	0.0004 mg/L	0.00034	0.0004 mg/L	0.00034	76.95%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.2	0.0001 mg/L	0.00154	0.0001 mg/L	0.00154	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	2.1	0.0002 mg/L	0.00037	0.0002 mg/L	0.00037	150.28%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	26.8	0.0014 mg/L	0.00040	0.0014 mg/L	0.00040	27.97%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	102.3	0.0086 mg/L	0.00571	0.0086 mg/L	0.00571	66.30%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-1.8	-0.0000 mg/L	0.00033	-0.0000 mg/L	0.00033	>999.9%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-93.1	-0.0013 mg/L	0.00009	-0.0013 mg/L	0.00009	6.73%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-117.1	-0.0003 mg/L	0.00009	-0.0003 mg/L	0.00009	32.77%
All analyte(s) passed QC.						

Sequence No.: 116
Sample ID: 24D1668-02
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 118
Date Collected: 4/17/2024 10:14:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1668-02

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5037544.1	91.68 %	0.809			0.88%
Y radial	180619.5	94.00 %	1.202			1.28%
Ag 328.068†	-5157.6	-0.0108 mg/L	0.00080	-0.0108 mg/L	0.00080	7.43%
Al 396.153†	470858.7	121.8 mg/L	0.49	121.8 mg/L	0.49	0.40%
As 188.979†	-393.4	0.0303 mg/L	0.00555	0.0303 mg/L	0.00555	18.34%
B 208.889†	-1972.2	-0.1053 mg/L	0.00031	-0.1053 mg/L	0.00031	0.29%
Ba 233.527†	74390.2	0.4017 mg/L	0.00416	0.4017 mg/L	0.00416	1.04%
Be 313.107†	2703.1	0.0046 mg/L	0.00018	0.0046 mg/L	0.00018	3.83%
Ca 317.933†	682529.3	98.18 mg/L	0.570	98.18 mg/L	0.570	0.58%
Cd 228.802†	-239.1	0.0032 mg/L	0.00022	0.0032 mg/L	0.00022	6.77%
Co 228.616†	9166.9	0.0775 mg/L	0.00080	0.0775 mg/L	0.00080	1.03%
Cr 267.716†	19014.7	0.1445 mg/L	0.00114	0.1445 mg/L	0.00114	0.79%
Cu 327.393†	50908.7	0.2864 mg/L	0.00344	0.2864 mg/L	0.00344	1.20%
Fe 238.204†	682480.2	287.3 mg/L	1.70	287.3 mg/L	1.70	0.59%
K 766.490†	26194.0	7.912 mg/L	0.2151	7.912 mg/L	0.2151	2.72%
Mg 285.213†	631360.9	73.67 mg/L	0.391	73.67 mg/L	0.391	0.53%
Mn 257.610†	61189.2	2.471 mg/L	0.0559	2.471 mg/L	0.0559	2.26%
Mo 202.031†	46.6	0.0019 mg/L	0.00013	0.0019 mg/L	0.00013	7.06%
Na 589.592†	32504.7	2.673 mg/L	0.0158	2.673 mg/L	0.0158	0.59%
Ni 231.604†	5740.0	0.1441 mg/L	0.00113	0.1441 mg/L	0.00113	0.79%
Pb 220.353†	10222.1	0.8259 mg/L	0.00803	0.8259 mg/L	0.00803	0.97%
Sb 206.836†	-16.9	0.0091 mg/L	0.00130	0.0091 mg/L	0.00130	14.34%
Se 196.026†	17.6	-0.0071 mg/L	0.00100	-0.0071 mg/L	0.00100	14.06%
Sn 189.927†	530.9	0.0617 mg/L	0.00176	0.0617 mg/L	0.00176	2.85%
Ti 337.279†	115545.6	6.098 mg/L	0.0302	6.098 mg/L	0.0302	0.50%
Tl 351.924†	-1999.9	-0.0038 mg/L	0.00165	-0.0038 mg/L	0.00165	43.53%
V 290.880†	68416.9	0.2895 mg/L	0.00213	0.2895 mg/L	0.00213	0.74%
Zn 206.200†	77171.8	1.051 mg/L	0.0105	1.051 mg/L	0.0105	1.00%
Zr 343.823†	16929.3	0.0308 mg/L	0.00078	0.0308 mg/L	0.00078	2.52%

Sequence No.: 117

Sample ID: 24D1668-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 119

Date Collected: 4/17/2024 10:18:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1668-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5044209.8	91.80 %	4.643			5.06%
Y radial	178583.9	92.95 %	1.898			2.04%
Ag 328.068†	-3825.7	-0.0077 mg/L	0.00105	-0.0077 mg/L	0.00105	13.76%
Al 396.153†	761074.8	196.9 mg/L	3.93	196.9 mg/L	3.93	2.00%
As 188.979†	-344.1	0.0216 mg/L	0.00949	0.0216 mg/L	0.00949	43.96%
B 208.889†	-1922.7	-0.1030 mg/L	0.00267	-0.1030 mg/L	0.00267	2.59%
Ba 233.527†	89857.2	0.5061 mg/L	0.02939	0.5061 mg/L	0.02939	5.81%
Be 313.107†	2953.6	0.0050 mg/L	0.00033	0.0050 mg/L	0.00033	6.54%
Ca 317.933†	257023.0	36.97 mg/L	0.746	36.97 mg/L	0.746	2.02%
Cd 228.802†	-80.1	0.0028 mg/L	0.00013	0.0028 mg/L	0.00013	4.60%
Co 228.616†	7146.8	0.0560 mg/L	0.00347	0.0560 mg/L	0.00347	6.20%
Cr 267.716†	15117.6	0.1155 mg/L	0.00651	0.1155 mg/L	0.00651	5.64%
Cu 327.393†	21095.4	0.1187 mg/L	0.00751	0.1187 mg/L	0.00751	6.33%
Fe 238.204†	448547.1	188.8 mg/L	3.88	188.8 mg/L	3.88	2.06%
K 766.490†	12450.1	3.761 mg/L	0.1240	3.761 mg/L	0.1240	3.30%
Mg 285.213†	188916.5	22.12 mg/L	0.461	22.12 mg/L	0.461	2.08%
Mn 257.610†	18808.1	0.7674 mg/L	0.02400	0.7674 mg/L	0.02400	3.13%
Mo 202.031†	223.1	0.0089 mg/L	0.00039	0.0089 mg/L	0.00039	4.35%
Na 589.592†	35020.2	2.880 mg/L	0.0614	2.880 mg/L	0.0614	2.13%
Ni 231.604†	3380.4	0.0849 mg/L	0.00446	0.0849 mg/L	0.00446	5.26%
Pb 220.353†	2045.5	0.1810 mg/L	0.00874	0.1810 mg/L	0.00874	4.83%
Sb 206.836†	-8.1	0.0062 mg/L	0.00102	0.0062 mg/L	0.00102	16.51%
Se 196.026†	8.9	0.0023 mg/L	0.00134	0.0023 mg/L	0.00134	58.27%
Sn 189.927†	-35.9	-0.0042 mg/L	0.00061	-0.0042 mg/L	0.00061	14.52%
Ti 337.279†	129524.7	6.836 mg/L	0.1374	6.836 mg/L	0.1374	2.01%
Tl 351.924†	-1472.1	-0.0260 mg/L	0.00802	-0.0260 mg/L	0.00802	30.83%
V 290.880†	76739.2	0.3344 mg/L	0.02095	0.3344 mg/L	0.02095	6.27%

Zn 206.200†	53595.7	0.7307 mg/L	0.04203	0.7307 mg/L	0.04203	5.75%
Zr 343.823†	7115.6	0.0113 mg/L	0.00171	0.0113 mg/L	0.00171	15.11%

Sequence No.: 118
 Sample ID: RINSE
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 7
 Date Collected: 4/17/2024 10:23:34 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5187967.9	94.42	%	0.721			0.76%
Y radial	181244.7	94.33	%	0.752			0.80%
Ag 328.068†	657.3	0.0022	mg/L	0.00008	0.0022 mg/L	0.00008	3.78%
Al 396.153†	92.8	0.0240	mg/L	0.01326	0.0240 mg/L	0.01326	55.21%
As 188.979†	-11.3	-0.0033	mg/L	0.00143	-0.0033 mg/L	0.00143	43.32%
B 208.889†	-2392.7	-0.1276	mg/L	0.00024	-0.1276 mg/L	0.00024	0.19%
Ba 233.527†	-0.4	-0.0000	mg/L	0.00003	-0.0000 mg/L	0.00003	921.04%
Be 313.107†	-46.2	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	21.09%
Ca 317.933†	58.7	0.0084	mg/L	0.00363	0.0084 mg/L	0.00363	43.01%
Cd 228.802†	-5.4	0.0000	mg/L	0.00007	0.0000 mg/L	0.00007	260.91%
Co 228.616†	-12.1	-0.0001	mg/L	0.00009	-0.0001 mg/L	0.00009	69.89%
Cr 267.716†	-6.1	-0.0000	mg/L	0.00020	-0.0000 mg/L	0.00020	423.99%
Cu 327.393†	-1416.8	-0.0080	mg/L	0.00011	-0.0080 mg/L	0.00011	1.32%
Fe 238.204†	33.9	0.0143	mg/L	0.00571	0.0143 mg/L	0.00571	40.04%
K 766.490†	250.1	0.0756	mg/L	0.03216	0.0756 mg/L	0.03216	42.57%
Mg 285.213†	26.8	0.0031	mg/L	0.00086	0.0031 mg/L	0.00086	27.58%
Mn 257.610†	1.0	0.0000	mg/L	0.00007	0.0000 mg/L	0.00007	170.50%
Mo 202.031†	1.3	0.0001	mg/L	0.00016	0.0001 mg/L	0.00016	311.62%
Na 589.592†	141.3	0.0116	mg/L	0.00405	0.0116 mg/L	0.00405	34.83%
Ni 231.604†	15.6	0.0004	mg/L	0.00016	0.0004 mg/L	0.00016	42.13%
Pb 220.353†	-4.1	-0.0003	mg/L	0.00039	-0.0003 mg/L	0.00039	125.08%
Sb 206.836†	8.2	0.0013	mg/L	0.00018	0.0013 mg/L	0.00018	14.12%
Se 196.026†	-2.5	-0.0012	mg/L	0.00276	-0.0012 mg/L	0.00276	225.32%
Sn 189.927†	2.1	0.0002	mg/L	0.00007	0.0002 mg/L	0.00007	26.98%
Ti 337.279†	40.1	0.0021	mg/L	0.00031	0.0021 mg/L	0.00031	14.57%
Tl 351.924†	124.3	0.0105	mg/L	0.00564	0.0105 mg/L	0.00564	53.89%
V 290.880†	159.1	0.0007	mg/L	0.00027	0.0007 mg/L	0.00027	37.44%
Zn 206.200†	-131.6	-0.0018	mg/L	0.00008	-0.0018 mg/L	0.00008	4.26%
Zr 343.823†	-137.2	-0.0003	mg/L	0.00020	-0.0003 mg/L	0.00020	65.30%

Sequence No.: 119
 Sample ID: SEQ-IFA@ 23I0975
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 11
 Date Collected: 4/17/2024 10:29:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4662670.7	84.86	%	0.839			0.99%
Y radial	170307.4	88.64	%	0.576			0.65%
Ag 328.068†	-1464.8	-0.0029	mg/L	0.00020	-0.0029 mg/L	0.00020	6.93%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153†	975417.8	252.4	mg/L	2.37	252.4 mg/L	2.37	0.94%
QC value within limits for Al 396.153 Recovery = 100.94%							
As 188.979†	-112.3	0.0000	mg/L	0.00196	0.0000 mg/L	0.00196	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated							
B 208.889†	-2459.2	-0.1310	mg/L	0.00070	-0.1310 mg/L	0.00070	0.54%
QC value less than the lower limit for B 208.889 Recovery = Not calculated							
Ba 233.527†	1611.6	-0.0031	mg/L	0.00008	-0.0031 mg/L	0.00008	2.58%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-27.2	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	24.02%

QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	1642678.4	236.3 mg/L	2.62	236.3 mg/L	2.62	1.11%
QC value within limits for Ca 317.933	Recovery = 94.51%					
Cd 228.802†	-157.5	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	19.71%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-76.6	-0.0008 mg/L	0.00014	-0.0008 mg/L	0.00014	17.82%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	290.3	0.0022 mg/L	0.00003	0.0022 mg/L	0.00003	1.47%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-2150.9	-0.0121 mg/L	0.00010	-0.0121 mg/L	0.00010	0.83%
QC value less than the lower limit for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	226163.5	95.21 mg/L	0.957	95.21 mg/L	0.957	1.00%
QC value within limits for Fe 238.204	Recovery = 95.21%					
K 766.490†	171.0	0.0517 mg/L	0.00633	0.0517 mg/L	0.00633	12.25%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1920051.8	223.4 mg/L	2.37	223.4 mg/L	2.37	1.06%
QC value within limits for Mg 285.213	Recovery = 89.38%					
Mn 257.610†	-84.7	0.0040 mg/L	0.00029	0.0040 mg/L	0.00029	7.10%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	-113.6	-0.0045 mg/L	0.00017	-0.0045 mg/L	0.00017	3.75%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	564.5	0.0464 mg/L	0.00147	0.0464 mg/L	0.00147	3.17%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	271.2	0.0068 mg/L	0.00023	0.0068 mg/L	0.00023	3.35%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-295.9	0.0046 mg/L	0.00174	0.0046 mg/L	0.00174	38.16%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	29.0	0.0086 mg/L	0.00139	0.0086 mg/L	0.00139	16.16%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	79.6	-0.0260 mg/L	0.00545	-0.0260 mg/L	0.00545	20.94%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-588.2	-0.0684 mg/L	0.00142	-0.0684 mg/L	0.00142	2.08%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	43.8	0.0023 mg/L	0.00038	0.0023 mg/L	0.00038	16.31%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-640.3	0.0079 mg/L	0.00199	0.0079 mg/L	0.00199	25.08%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	1640.4	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	37.95%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	98.1	-0.0053 mg/L	0.00013	-0.0053 mg/L	0.00013	2.48%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	1159.5	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	8.90%
QC Failed. Continue with analysis.						

Sequence No.: 120

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/17/2024 10:34:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4706621.7	85.66 %	0.933			1.09%
Y radial	169755.6	88.35 %	0.987			1.12%
Ag 328.068†	110368.9	0.3776 mg/L	0.00464	0.3776 mg/L	0.00464	1.23%
QC value within limits for Ag 328.068	Recovery = 94.40%					
Al 396.153†	960468.9	248.5 mg/L	1.70	248.5 mg/L	1.70	0.68%
QC value within limits for Al 396.153	Recovery = 99.40%					
As 188.979†	491.3	0.1754 mg/L	0.00070	0.1754 mg/L	0.00070	0.40%
QC value within limits for As 188.979	Recovery = 87.68%					
B 208.889†	-2484.3	-0.1323 mg/L	0.00038	-0.1323 mg/L	0.00038	0.29%
QC value less than the lower limit for B 208.889	Recovery = Not calculated					
Ba 233.527†	161935.8	0.9453 mg/L	0.00443	0.9453 mg/L	0.00443	0.47%
QC value within limits for Ba 233.527	Recovery = 94.53%					
Be 313.107†	409694.4	0.9234 mg/L	0.00414	0.9234 mg/L	0.00414	0.45%
QC value within limits for Be 313.107	Recovery = 92.34%					

Ca 317.933†	1634888.5	235.2 mg/L	1.17	235.2 mg/L	1.17	0.50%
QC value within limits for Ca 317.933		Recovery = 94.07%				
Cd 228.802†	221407.3	1.946 mg/L	0.0074	1.946 mg/L	0.0074	0.38%
QC value within limits for Cd 228.802		Recovery = 97.31%				
Co 228.616†	87984.3	0.8692 mg/L	0.00390	0.8692 mg/L	0.00390	0.45%
QC value within limits for Co 228.616		Recovery = 86.92%				
Cr 267.716†	120024.9	0.9186 mg/L	0.00425	0.9186 mg/L	0.00425	0.46%
QC value within limits for Cr 267.716		Recovery = 91.86%				
Cu 327.393†	163045.9	0.9167 mg/L	0.00173	0.9167 mg/L	0.00173	0.19%
QC value within limits for Cu 327.393		Recovery = 91.67%				
Fe 238.204†	220501.4	92.83 mg/L	0.472	92.83 mg/L	0.472	0.51%
QC value within limits for Fe 238.204		Recovery = 92.83%				
K 766.490†	211.1	0.0638 mg/L	0.00213	0.0638 mg/L	0.00213	3.35%
QC value within limits for K 766.490		Recovery = Not calculated				
Mg 285.213†	1891455.9	220.1 mg/L	1.11	220.1 mg/L	1.11	0.50%
QC value within limits for Mg 285.213		Recovery = 88.04%				
Mn 257.610†	22903.5	0.9238 mg/L	0.00943	0.9238 mg/L	0.00943	1.02%
QC value within limits for Mn 257.610		Recovery = 92.38%				
Mo 202.031†	-119.3	-0.0047 mg/L	0.00027	-0.0047 mg/L	0.00027	5.74%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592†	687.8	0.0566 mg/L	0.00272	0.0566 mg/L	0.00272	4.80%
QC value within limits for Na 589.592		Recovery = Not calculated				
Ni 231.604†	68476.0	1.718 mg/L	0.0084	1.718 mg/L	0.0084	0.49%
QC value within limits for Ni 231.604		Recovery = 85.92%				
Pb 220.353†	820.9	0.0931 mg/L	0.00054	0.0931 mg/L	0.00054	0.58%
QC value within limits for Pb 220.353		Recovery = 93.10%				
Sb 206.836†	6727.2	1.047 mg/L	0.0094	1.047 mg/L	0.0094	0.89%
QC value within limits for Sb 206.836		Recovery = 87.26%				
Se 196.026†	1035.7	0.4497 mg/L	0.00678	0.4497 mg/L	0.00678	1.51%
QC value within limits for Se 196.026		Recovery = 89.94%				
Sn 189.927†	-595.1	-0.0692 mg/L	0.00123	-0.0692 mg/L	0.00123	1.78%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 337.279†	47.9	0.0025 mg/L	0.00012	0.0025 mg/L	0.00012	4.78%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 351.924†	1791.6	0.2072 mg/L	0.00143	0.2072 mg/L	0.00143	0.69%
QC value within limits for Tl 351.924		Recovery = 103.58%				
V 290.880†	209048.5	0.9340 mg/L	0.00354	0.9340 mg/L	0.00354	0.38%
QC value within limits for V 290.880		Recovery = 93.40%				
Zn 206.200†	129067.7	1.789 mg/L	0.0103	1.789 mg/L	0.0103	0.58%
QC value within limits for Zn 206.200		Recovery = 89.43%				
Zr 343.823†	1168.7	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	19.85%
QC Failed. Continue with analysis.						

Sequence No.: 121

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 10:40:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4998094.0	90.96 %	0.330			0.36%
Y radial	186695.3	97.17 %	2.500			2.57%
Ag 328.068†	711185.5	2.375 mg/L	0.0134	2.375 mg/L	0.0134	0.56%
QC value within limits for Ag 328.068		Recovery = 94.99%				
Al 396.153†	36612.3	9.214 mg/L	0.2620	9.214 mg/L	0.2620	2.84%
QC value within limits for Al 396.153		Recovery = 92.14%				
As 188.979†	15951.4	4.766 mg/L	0.0278	4.766 mg/L	0.0278	0.58%
QC value within limits for As 188.979		Recovery = 95.32%				
B 208.889†	86544.8	4.373 mg/L	0.0244	4.373 mg/L	0.0244	0.56%
QC value less than the lower limit for B 208.889		Recovery = 87.47%				
Ba 233.527†	833802.0	4.932 mg/L	0.0236	4.932 mg/L	0.0236	0.48%
QC value within limits for Ba 233.527		Recovery = 98.64%				
Be 313.107†	1984320.3	4.471 mg/L	0.1557	4.471 mg/L	0.1557	3.48%
QC value less than the lower limit for Be 313.107		Recovery = 89.43%				
Ca 317.933†	64254.1	9.242 mg/L	0.2803	9.242 mg/L	0.2803	3.03%

QC value within limits for Ca 317.933	Recovery = 92.42%				
Cd 228.802†	568569.1	4.906 mg/L	0.0229	4.906 mg/L	0.0229 0.47%
QC value within limits for Cd 228.802	Recovery = 98.12%				
Co 228.616†	496288.2	4.911 mg/L	0.0272	4.911 mg/L	0.0272 0.55%
QC value within limits for Co 228.616	Recovery = 98.23%				
Cr 267.716†	641362.6	4.908 mg/L	0.0235	4.908 mg/L	0.0235 0.48%
QC value within limits for Cr 267.716	Recovery = 98.16%				
Cu 327.393†	831543.1	4.692 mg/L	0.0233	4.692 mg/L	0.0233 0.50%
QC value within limits for Cu 327.393	Recovery = 93.85%				
Fe 238.204†	10969.7	4.644 mg/L	0.1429	4.644 mg/L	0.1429 3.08%
QC value within limits for Fe 238.204	Recovery = 92.88%				
K 766.490†	30320.5	9.159 mg/L	0.2695	9.159 mg/L	0.2695 2.94%
QC value within limits for K 766.490	Recovery = 91.59%				
Mg 285.213†	78613.1	9.124 mg/L	0.2691	9.124 mg/L	0.2691 2.95%
QC value within limits for Mg 285.213	Recovery = 91.24%				
Mn 257.610†	115999.3	4.642 mg/L	0.1437	4.642 mg/L	0.1437 3.10%
QC value within limits for Mn 257.610	Recovery = 92.85%				
Mo 202.031†	122041.0	4.847 mg/L	0.0293	4.847 mg/L	0.0293 0.60%
QC value within limits for Mo 202.031	Recovery = 96.94%				
Na 589.592†	103365.9	8.501 mg/L	0.3082	8.501 mg/L	0.3082 3.63%
QC value less than the lower limit for Na 589.592	Recovery = 85.01%				
Ni 231.604†	195456.7	4.904 mg/L	0.0197	4.904 mg/L	0.0197 0.40%
QC value within limits for Ni 231.604	Recovery = 98.08%				
Pb 220.353†	61372.8	4.935 mg/L	0.0326	4.935 mg/L	0.0326 0.66%
QC value within limits for Pb 220.353	Recovery = 98.70%				
Sb 206.836†	30443.0	4.752 mg/L	0.0317	4.752 mg/L	0.0317 0.67%
QC value within limits for Sb 206.836	Recovery = 95.04%				
Se 196.026†	9563.2	4.754 mg/L	0.0445	4.754 mg/L	0.0445 0.94%
QC value within limits for Se 196.026	Recovery = 95.09%				
Sn 189.927†	42306.4	4.911 mg/L	0.0241	4.911 mg/L	0.0241 0.49%
QC value within limits for Sn 189.927	Recovery = 98.23%				
Ti 337.279†	86217.2	4.547 mg/L	0.1396	4.547 mg/L	0.1396 3.07%
QC value within limits for Ti 337.279	Recovery = 90.95%				
Tl 351.924†	28660.7	2.374 mg/L	0.0213	2.374 mg/L	0.0213 0.90%
QC value within limits for Tl 351.924	Recovery = 94.97%				
V 290.880†	1083767.3	4.877 mg/L	0.0267	4.877 mg/L	0.0267 0.55%
QC value within limits for V 290.880	Recovery = 97.54%				
Zn 206.200†	362066.5	5.046 mg/L	0.0256	5.046 mg/L	0.0256 0.51%
QC value within limits for Zn 206.200	Recovery = 100.92%				
Zr 343.823†	2162376.1	4.803 mg/L	0.0223	4.803 mg/L	0.0223 0.46%
QC Failed. Retry.					

Sequence No.: 122

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 10:41:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5000649.2	91.01 %	0.584			0.64%
Y radial	178370.6	92.83 %	1.538			1.66%
Ag 328.068†	711326.9	2.375 mg/L	0.0194	2.375 mg/L	0.0194	0.82%
QC value within limits for Ag 328.068	Recovery = 95.01%					
Al 396.153†	37622.1	9.476 mg/L	0.0295	9.476 mg/L	0.0295	0.31%
QC value within limits for Al 396.153	Recovery = 94.76%					
As 188.979†	15922.9	4.759 mg/L	0.0213	4.759 mg/L	0.0213	0.45%
QC value within limits for As 188.979	Recovery = 95.18%					
B 208.889†	86252.6	4.358 mg/L	0.0198	4.358 mg/L	0.0198	0.46%
QC value less than the lower limit for B 208.889	Recovery = 87.16%					
Ba 233.527†	829135.6	4.904 mg/L	0.0102	4.904 mg/L	0.0102	0.21%
QC value within limits for Ba 233.527	Recovery = 98.08%					
Be 313.107†	2071657.3	4.669 mg/L	0.0150	4.669 mg/L	0.0150	0.32%
QC value within limits for Be 313.107	Recovery = 93.39%					
Ca 317.933†	65974.0	9.490 mg/L	0.0413	9.490 mg/L	0.0413	0.43%
QC value within limits for Ca 317.933	Recovery = 94.90%					

Cd 228.802†	565646.4	4.880 mg/L	0.0142	4.880 mg/L	0.0142	0.29%
QC value within limits for Cd 228.802			Recovery = 97.61%			
Co 228.616†	493624.1	4.885 mg/L	0.0072	4.885 mg/L	0.0072	0.15%
QC value within limits for Co 228.616			Recovery = 97.69%			
Cr 267.716†	637099.3	4.875 mg/L	0.0085	4.875 mg/L	0.0085	0.18%
QC value within limits for Cr 267.716			Recovery = 97.51%			
Cu 327.393†	825557.7	4.659 mg/L	0.0259	4.659 mg/L	0.0259	0.56%
QC value within limits for Cu 327.393			Recovery = 93.17%			
Fe 238.204†	11301.6	4.783 mg/L	0.0166	4.783 mg/L	0.0166	0.35%
QC value within limits for Fe 238.204			Recovery = 95.67%			
K 766.490†	31043.3	9.377 mg/L	0.0282	9.377 mg/L	0.0282	0.30%
QC value within limits for K 766.490			Recovery = 93.77%			
Mg 285.213†	80789.6	9.378 mg/L	0.0130	9.378 mg/L	0.0130	0.14%
QC value within limits for Mg 285.213			Recovery = 93.78%			
Mn 257.610†	119675.9	4.790 mg/L	0.0136	4.790 mg/L	0.0136	0.28%
QC value within limits for Mn 257.610			Recovery = 95.79%			
Mo 202.031†	122075.7	4.848 mg/L	0.0152	4.848 mg/L	0.0152	0.31%
QC value within limits for Mo 202.031			Recovery = 96.97%			
Na 589.592†	107501.6	8.841 mg/L	0.0197	8.841 mg/L	0.0197	0.22%
QC value less than the lower limit for Na 589.592			Recovery = 88.41%			
Ni 231.604†	194216.3	4.873 mg/L	0.0105	4.873 mg/L	0.0105	0.22%
QC value within limits for Ni 231.604			Recovery = 97.46%			
Pb 220.353†	61419.3	4.939 mg/L	0.0179	4.939 mg/L	0.0179	0.36%
QC value within limits for Pb 220.353			Recovery = 98.77%			
Sb 206.836†	30319.1	4.733 mg/L	0.0220	4.733 mg/L	0.0220	0.47%
QC value within limits for Sb 206.836			Recovery = 94.66%			
Se 196.026†	9545.7	4.745 mg/L	0.0472	4.745 mg/L	0.0472	0.99%
QC value within limits for Se 196.026			Recovery = 94.91%			
Sn 189.927†	42266.2	4.907 mg/L	0.0148	4.907 mg/L	0.0148	0.30%
QC value within limits for Sn 189.927			Recovery = 98.13%			
Ti 337.279†	88493.7	4.668 mg/L	0.0102	4.668 mg/L	0.0102	0.22%
QC value within limits for Ti 337.279			Recovery = 93.35%			
Tl 351.924†	28643.2	2.373 mg/L	0.0106	2.373 mg/L	0.0106	0.45%
QC value within limits for Tl 351.924			Recovery = 94.90%			
V 290.880†	1077277.2	4.848 mg/L	0.0147	4.848 mg/L	0.0147	0.30%
QC value within limits for V 290.880			Recovery = 96.95%			
Zn 206.200†	360310.7	5.021 mg/L	0.0102	5.021 mg/L	0.0102	0.20%
QC value within limits for Zn 206.200			Recovery = 100.42%			
Zr 343.823†	2146848.7	4.768 mg/L	0.0197	4.768 mg/L	0.0197	0.41%
QC Failed. Continue with analysis.						

Sequence No.: 123

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 10:47:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5376150.5	97.84 %	0.940			0.96%
Y radial	186457.8	97.04 %	1.203			1.24%
Ag 328.068†	1063.1	0.0036 mg/L	0.00055	0.0036 mg/L	0.00055	15.45%
QC value within limits for Ag 328.068			Recovery = Not calculated			
Al 396.153†	24.2	0.0062 mg/L	0.00526	0.0062 mg/L	0.00526	84.71%
QC value within limits for Al 396.153			Recovery = Not calculated			
As 188.979†	-15.2	-0.0045 mg/L	0.00192	-0.0045 mg/L	0.00192	42.64%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	-2294.3	-0.1225 mg/L	0.00038	-0.1225 mg/L	0.00038	0.31%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	3.6	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	268.66%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	-25.3	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	74.93%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	50.8	0.0073 mg/L	0.00212	0.0073 mg/L	0.00212	29.05%
QC value within limits for Ca 317.933			Recovery = Not calculated			
Cd 228.802†	-11.2	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	>999.9%

QC value within limits for Cd 228.802	Recovery = Not calculated		
Co 228.616†	-3.4 -0.0000 mg/L	0.00004 -0.0000 mg/L	0.00004 118.99%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-10.9 -0.0001 mg/L	0.00008 -0.0001 mg/L	0.00008 90.15%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 327.393†	-1040.3 -0.0058 mg/L	0.00010 -0.0058 mg/L	0.00010 1.77%
QC value within limits for Cu 327.393	Recovery = Not calculated		
Fe 238.204†	4.8 0.0020 mg/L	0.00134 0.0020 mg/L	0.00134 65.93%
QC value within limits for Fe 238.204	Recovery = Not calculated		
K 766.490†	144.6 0.0437 mg/L	0.01517 0.0437 mg/L	0.01517 34.73%
QC value within limits for K 766.490	Recovery = Not calculated		
Mg 285.213†	11.8 0.0014 mg/L	0.00053 0.0014 mg/L	0.00053 38.64%
QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610†	-3.7 -0.0001 mg/L	0.00018 -0.0001 mg/L	0.00018 124.04%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	33.1 0.0013 mg/L	0.00035 0.0013 mg/L	0.00035 26.74%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592†	111.9 0.0092 mg/L	0.00613 0.0092 mg/L	0.00613 66.62%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604†	1.4 0.0000 mg/L	0.00003 0.0000 mg/L	0.00003 85.74%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353†	16.6 0.0013 mg/L	0.00064 0.0013 mg/L	0.00064 47.32%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836†	10.1 0.0016 mg/L	0.00010 0.0016 mg/L	0.00010 6.33%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	7.3 0.0036 mg/L	0.00158 0.0036 mg/L	0.00158 43.67%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927†	5.1 0.0006 mg/L	0.00051 0.0006 mg/L	0.00051 84.59%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279†	19.8 0.0010 mg/L	0.00052 0.0010 mg/L	0.00052 50.07%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924†	97.3 0.0082 mg/L	0.00160 0.0082 mg/L	0.00160 19.55%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880†	-66.3 -0.0003 mg/L	0.00014 -0.0003 mg/L	0.00014 45.42%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200†	11.8 0.0001 mg/L	0.00017 0.0001 mg/L	0.00017 119.10%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823†	-62.3 -0.0001 mg/L	0.00014 -0.0001 mg/L	0.00014 98.59%

All analyte(s) passed QC.

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103313-IFA1	QC		1		24C0959	24D0241	
S103313-IFB1	QC		2		24D0240	24D0241	
S103313-IFA2	QC		3		24C0959	24D0241	
S103313-IFB2	QC		4		24D0240	24D0241	
S103313-CCV1	QC		5		24D0029	24D0241	
S103313-CCB1	QC		6		23J0970	24D0241	
B371416-BLK1	QC		7			24D0241	
B371416-BS1	QC		8			24D0241	
B371416-BSD1	QC		9			24D0241	
B371416-MS1	QC		10			24D0241	
B371416-MSD1	QC		11			24D0241	
B371416-PS1	QC		12			24D0241	
B371416-SRL1	QC		13			24D0241	
24D0735-04	Aluminum 6010 Total	A	14			24D0241	CAT B - Report to MDL
24D0735-04	Antimony 6010 Total	A	15			24D0241	CAT B - Report to MDL
24D0735-04	Arsenic 6010 Total	A	16			24D0241	CAT B - Report to MDL
24D0735-04	Barium 6010 Total	A	17			24D0241	CAT B - Report to MDL
24D0735-04	Beryllium 6010 Total	A	18			24D0241	CAT B - Report to MDL
24D0735-04	Cadmium 6010 Total	A	19			24D0241	CAT B - Report to MDL
24D0735-04	Calcium 6010 Total	A	20			24D0241	CAT B - Report to MDL
24D0735-04	Chromium 6010 Total	A	21			24D0241	CAT B - Report to MDL
24D0735-04	Cobalt 6010 Total	A	22			24D0241	CAT B - Report to MDL
24D0735-04	Iron 6010 Total	A	23			24D0241	CAT B - Report to MDL
24D0735-04	Lead 6010 Total	A	24			24D0241	CAT B - Report to MDL
24D0735-04	Magnesium 6010 Total	A	25			24D0241	CAT B - Report to MDL
24D0735-04	Manganese 6010 Total	A	26			24D0241	CAT B - Report to MDL
24D0735-04	Nickel 6010 Total	A	27			24D0241	CAT B - Report to MDL
24D0735-04	Potassium 6010 Total	A	28			24D0241	CAT B - Report to MDL
24D0735-04	Selenium 6010 Total	A	29			24D0241	CAT B - Report to MDL
24D0735-04	Silver 6010 Total	A	30			24D0241	CAT B - Report to MDL
24D0735-04	Thallium 6010 Total	A	31			24D0241	CAT B - Report to MDL
24D0735-04	Vanadium 6010 Total	A	32			24D0241	CAT B - Report to MDL
24D0735-04	Zinc 6010 Total	A	33			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103313-CCV2	QC		34		24D0029	24D0241	
S103313-CCB2	QC		35		23J0970	24D0241	
24D0735-03	Aluminum 6010 Total	A	36			24D0241	CAT B - Report to MDL
24D0735-03	Antimony 6010 Total	A	37			24D0241	CAT B - Report to MDL
24D0735-03	Arsenic 6010 Total	A	38			24D0241	CAT B - Report to MDL
24D0735-03	Barium 6010 Total	A	39			24D0241	CAT B - Report to MDL
24D0735-03	Beryllium 6010 Total	A	40			24D0241	CAT B - Report to MDL
24D0735-03	Cadmium 6010 Total	A	41			24D0241	CAT B - Report to MDL
24D0735-03	Calcium 6010 Total	A	42			24D0241	CAT B - Report to MDL
24D0735-03	Chromium 6010 Total	A	43			24D0241	CAT B - Report to MDL
24D0735-03	Cobalt 6010 Total	A	44			24D0241	CAT B - Report to MDL
24D0735-03	Iron 6010 Total	A	45			24D0241	CAT B - Report to MDL
24D0735-03	Lead 6010 Total	A	46			24D0241	CAT B - Report to MDL
24D0735-03	Magnesium 6010 Total	A	47			24D0241	CAT B - Report to MDL
24D0735-03	Manganese 6010 Total	A	48			24D0241	CAT B - Report to MDL
24D0735-03	Nickel 6010 Total	A	49			24D0241	CAT B - Report to MDL
24D0735-03	Potassium 6010 Total	A	50			24D0241	CAT B - Report to MDL
24D0735-03	Selenium 6010 Total	A	51			24D0241	CAT B - Report to MDL
24D0735-03	Silver 6010 Total	A	52			24D0241	CAT B - Report to MDL
24D0735-03	Thallium 6010 Total	A	53			24D0241	CAT B - Report to MDL
24D0735-03	Vanadium 6010 Total	A	54			24D0241	CAT B - Report to MDL
24D0735-03	Zinc 6010 Total	A	55			24D0241	CAT B - Report to MDL
24D0735-05	Aluminum 6010 Total	A	56			24D0241	CAT B - Report to MDL
24D0735-05	Antimony 6010 Total	A	57			24D0241	CAT B - Report to MDL
24D0735-05	Arsenic 6010 Total	A	58			24D0241	CAT B - Report to MDL
24D0735-05	Barium 6010 Total	A	59			24D0241	CAT B - Report to MDL
24D0735-05	Beryllium 6010 Total	A	60			24D0241	CAT B - Report to MDL
24D0735-05	Cadmium 6010 Total	A	61			24D0241	CAT B - Report to MDL
24D0735-05	Calcium 6010 Total	A	62			24D0241	CAT B - Report to MDL
24D0735-05	Chromium 6010 Total	A	63			24D0241	CAT B - Report to MDL
24D0735-05	Cobalt 6010 Total	A	64			24D0241	CAT B - Report to MDL
24D0735-05	Iron 6010 Total	A	65			24D0241	CAT B - Report to MDL
24D0735-05	Lead 6010 Total	A	66			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-05	Magnesium 6010 Total	A	67			24D0241	CAT B - Report to MDL
24D0735-05	Manganese 6010 Total	A	68			24D0241	CAT B - Report to MDL
24D0735-05	Nickel 6010 Total	A	69			24D0241	CAT B - Report to MDL
24D0735-05	Potassium 6010 Total	A	70			24D0241	CAT B - Report to MDL
24D0735-05	Selenium 6010 Total	A	71			24D0241	CAT B - Report to MDL
24D0735-05	Silver 6010 Total	A	72			24D0241	CAT B - Report to MDL
24D0735-05	Thallium 6010 Total	A	73			24D0241	CAT B - Report to MDL
24D0735-05	Vanadium 6010 Total	A	74			24D0241	CAT B - Report to MDL
24D0735-05	Zinc 6010 Total	A	75			24D0241	CAT B - Report to MDL
24D0735-06	Aluminum 6010 Total	A	76			24D0241	CAT B - Report to MDL
24D0735-06	Antimony 6010 Total	A	77			24D0241	CAT B - Report to MDL
24D0735-06	Arsenic 6010 Total	A	78			24D0241	CAT B - Report to MDL
24D0735-06	Barium 6010 Total	A	79			24D0241	CAT B - Report to MDL
24D0735-06	Beryllium 6010 Total	A	80			24D0241	CAT B - Report to MDL
24D0735-06	Cadmium 6010 Total	A	81			24D0241	CAT B - Report to MDL
24D0735-06	Calcium 6010 Total	A	82			24D0241	CAT B - Report to MDL
24D0735-06	Chromium 6010 Total	A	83			24D0241	CAT B - Report to MDL
24D0735-06	Cobalt 6010 Total	A	84			24D0241	CAT B - Report to MDL
24D0735-06	Iron 6010 Total	A	85			24D0241	CAT B - Report to MDL
24D0735-06	Lead 6010 Total	A	86			24D0241	CAT B - Report to MDL
24D0735-06	Magnesium 6010 Total	A	87			24D0241	CAT B - Report to MDL
24D0735-06	Manganese 6010 Total	A	88			24D0241	CAT B - Report to MDL
24D0735-06	Nickel 6010 Total	A	89			24D0241	CAT B - Report to MDL
24D0735-06	Potassium 6010 Total	A	90			24D0241	CAT B - Report to MDL
24D0735-06	Selenium 6010 Total	A	91			24D0241	CAT B - Report to MDL
24D0735-06	Silver 6010 Total	A	92			24D0241	CAT B - Report to MDL
24D0735-06	Thallium 6010 Total	A	93			24D0241	CAT B - Report to MDL
24D0735-06	Vanadium 6010 Total	A	94			24D0241	CAT B - Report to MDL
24D0735-06	Zinc 6010 Total	A	95			24D0241	CAT B - Report to MDL
24D0735-07	Aluminum 6010 Total	B	96			24D0241	CAT B - Report to MDL
24D0735-07	Antimony 6010 Total	B	97			24D0241	CAT B - Report to MDL
24D0735-07	Arsenic 6010 Total	B	98			24D0241	CAT B - Report to MDL
24D0735-07	Barium 6010 Total	B	99			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-07	Beryllium 6010 Total	B	100			24D0241	CAT B - Report to MDL
24D0735-07	Cadmium 6010 Total	B	101			24D0241	CAT B - Report to MDL
24D0735-07	Calcium 6010 Total	B	102			24D0241	CAT B - Report to MDL
24D0735-07	Chromium 6010 Total	B	103			24D0241	CAT B - Report to MDL
24D0735-07	Cobalt 6010 Total	B	104			24D0241	CAT B - Report to MDL
24D0735-07	Iron 6010 Total	B	105			24D0241	CAT B - Report to MDL
24D0735-07	Lead 6010 Total	B	106			24D0241	CAT B - Report to MDL
24D0735-07	Magnesium 6010 Total	B	107			24D0241	CAT B - Report to MDL
24D0735-07	Manganese 6010 Total	B	108			24D0241	CAT B - Report to MDL
24D0735-07	Nickel 6010 Total	B	109			24D0241	CAT B - Report to MDL
24D0735-07	Potassium 6010 Total	B	110			24D0241	CAT B - Report to MDL
24D0735-07	Selenium 6010 Total	B	111			24D0241	CAT B - Report to MDL
24D0735-07	Silver 6010 Total	B	112			24D0241	CAT B - Report to MDL
24D0735-07	Thallium 6010 Total	B	113			24D0241	CAT B - Report to MDL
24D0735-07	Vanadium 6010 Total	B	114			24D0241	CAT B - Report to MDL
24D0735-07	Zinc 6010 Total	B	115			24D0241	CAT B - Report to MDL
24D0735-08	Aluminum 6010 Total	A	116			24D0241	CAT B - Report to MDL
24D0735-08	Antimony 6010 Total	A	117			24D0241	CAT B - Report to MDL
24D0735-08	Arsenic 6010 Total	A	118			24D0241	CAT B - Report to MDL
24D0735-08	Barium 6010 Total	A	119			24D0241	CAT B - Report to MDL
24D0735-08	Beryllium 6010 Total	A	120			24D0241	CAT B - Report to MDL
24D0735-08	Cadmium 6010 Total	A	121			24D0241	CAT B - Report to MDL
24D0735-08	Calcium 6010 Total	A	122			24D0241	CAT B - Report to MDL
24D0735-08	Chromium 6010 Total	A	123			24D0241	CAT B - Report to MDL
24D0735-08	Cobalt 6010 Total	A	124			24D0241	CAT B - Report to MDL
24D0735-08	Iron 6010 Total	A	125			24D0241	CAT B - Report to MDL
24D0735-08	Lead 6010 Total	A	126			24D0241	CAT B - Report to MDL
24D0735-08	Magnesium 6010 Total	A	127			24D0241	CAT B - Report to MDL
24D0735-08	Manganese 6010 Total	A	128			24D0241	CAT B - Report to MDL
24D0735-08	Nickel 6010 Total	A	129			24D0241	CAT B - Report to MDL
24D0735-08	Potassium 6010 Total	A	130			24D0241	CAT B - Report to MDL
24D0735-08	Selenium 6010 Total	A	131			24D0241	CAT B - Report to MDL
24D0735-08	Silver 6010 Total	A	132			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-08	Thallium 6010 Total	A	133			24D0241	CAT B - Report to MDL
24D0735-08	Vanadium 6010 Total	A	134			24D0241	CAT B - Report to MDL
24D0735-08	Zinc 6010 Total	A	135			24D0241	CAT B - Report to MDL
24D0735-09	Aluminum 6010 Total	A	136			24D0241	CAT B - Report to MDL
24D0735-09	Antimony 6010 Total	A	137			24D0241	CAT B - Report to MDL
24D0735-09	Arsenic 6010 Total	A	138			24D0241	CAT B - Report to MDL
24D0735-09	Barium 6010 Total	A	139			24D0241	CAT B - Report to MDL
24D0735-09	Beryllium 6010 Total	A	140			24D0241	CAT B - Report to MDL
24D0735-09	Cadmium 6010 Total	A	141			24D0241	CAT B - Report to MDL
24D0735-09	Calcium 6010 Total	A	142			24D0241	CAT B - Report to MDL
24D0735-09	Chromium 6010 Total	A	143			24D0241	CAT B - Report to MDL
24D0735-09	Cobalt 6010 Total	A	144			24D0241	CAT B - Report to MDL
24D0735-09	Iron 6010 Total	A	145			24D0241	CAT B - Report to MDL
24D0735-09	Lead 6010 Total	A	146			24D0241	CAT B - Report to MDL
24D0735-09	Magnesium 6010 Total	A	147			24D0241	CAT B - Report to MDL
24D0735-09	Manganese 6010 Total	A	148			24D0241	CAT B - Report to MDL
24D0735-09	Nickel 6010 Total	A	149			24D0241	CAT B - Report to MDL
24D0735-09	Potassium 6010 Total	A	150			24D0241	CAT B - Report to MDL
24D0735-09	Selenium 6010 Total	A	151			24D0241	CAT B - Report to MDL
24D0735-09	Silver 6010 Total	A	152			24D0241	CAT B - Report to MDL
24D0735-09	Thallium 6010 Total	A	153			24D0241	CAT B - Report to MDL
24D0735-09	Vanadium 6010 Total	A	154			24D0241	CAT B - Report to MDL
24D0735-09	Zinc 6010 Total	A	155			24D0241	CAT B - Report to MDL
24D0735-10	Aluminum 6010 Total	A	156			24D0241	CAT B - Report to MDL
24D0735-10	Antimony 6010 Total	A	157			24D0241	CAT B - Report to MDL
24D0735-10	Arsenic 6010 Total	A	158			24D0241	CAT B - Report to MDL
24D0735-10	Barium 6010 Total	A	159			24D0241	CAT B - Report to MDL
24D0735-10	Beryllium 6010 Total	A	160			24D0241	CAT B - Report to MDL
24D0735-10	Cadmium 6010 Total	A	161			24D0241	CAT B - Report to MDL
24D0735-10	Calcium 6010 Total	A	162			24D0241	CAT B - Report to MDL
24D0735-10	Chromium 6010 Total	A	163			24D0241	CAT B - Report to MDL
24D0735-10	Cobalt 6010 Total	A	164			24D0241	CAT B - Report to MDL
24D0735-10	Iron 6010 Total	A	165			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-10	Lead 6010 Total	A	166			24D0241	CAT B - Report to MDL
24D0735-10	Magnesium 6010 Total	A	167			24D0241	CAT B - Report to MDL
24D0735-10	Manganese 6010 Total	A	168			24D0241	CAT B - Report to MDL
24D0735-10	Nickel 6010 Total	A	169			24D0241	CAT B - Report to MDL
24D0735-10	Potassium 6010 Total	A	170			24D0241	CAT B - Report to MDL
24D0735-10	Selenium 6010 Total	A	171			24D0241	CAT B - Report to MDL
24D0735-10	Silver 6010 Total	A	172			24D0241	CAT B - Report to MDL
24D0735-10	Thallium 6010 Total	A	173			24D0241	CAT B - Report to MDL
24D0735-10	Vanadium 6010 Total	A	174			24D0241	CAT B - Report to MDL
24D0735-10	Zinc 6010 Total	A	175			24D0241	CAT B - Report to MDL
24D0735-11	Aluminum 6010 Total	B	176			24D0241	CAT B - Report to MDL
24D0735-11	Antimony 6010 Total	B	177			24D0241	CAT B - Report to MDL
24D0735-11	Arsenic 6010 Total	B	178			24D0241	CAT B - Report to MDL
24D0735-11	Barium 6010 Total	B	179			24D0241	CAT B - Report to MDL
24D0735-11	Beryllium 6010 Total	B	180			24D0241	CAT B - Report to MDL
24D0735-11	Cadmium 6010 Total	B	181			24D0241	CAT B - Report to MDL
24D0735-11	Calcium 6010 Total	B	182			24D0241	CAT B - Report to MDL
24D0735-11	Chromium 6010 Total	B	183			24D0241	CAT B - Report to MDL
24D0735-11	Cobalt 6010 Total	B	184			24D0241	CAT B - Report to MDL
24D0735-11	Iron 6010 Total	B	185			24D0241	CAT B - Report to MDL
24D0735-11	Lead 6010 Total	B	186			24D0241	CAT B - Report to MDL
24D0735-11	Magnesium 6010 Total	B	187			24D0241	CAT B - Report to MDL
24D0735-11	Manganese 6010 Total	B	188			24D0241	CAT B - Report to MDL
24D0735-11	Nickel 6010 Total	B	189			24D0241	CAT B - Report to MDL
24D0735-11	Potassium 6010 Total	B	190			24D0241	CAT B - Report to MDL
24D0735-11	Selenium 6010 Total	B	191			24D0241	CAT B - Report to MDL
24D0735-11	Silver 6010 Total	B	192			24D0241	CAT B - Report to MDL
24D0735-11	Thallium 6010 Total	B	193			24D0241	CAT B - Report to MDL
24D0735-11	Vanadium 6010 Total	B	194			24D0241	CAT B - Report to MDL
24D0735-11	Zinc 6010 Total	B	195			24D0241	CAT B - Report to MDL
24D0735-12	Aluminum 6010 Total	B	196			24D0241	CAT B - Report to MDL
24D0735-12	Antimony 6010 Total	B	197			24D0241	CAT B - Report to MDL
24D0735-12	Arsenic 6010 Total	B	198			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-12	Barium 6010 Total	B	199			24D0241	CAT B - Report to MDL
24D0735-12	Beryllium 6010 Total	B	200			24D0241	CAT B - Report to MDL
24D0735-12	Cadmium 6010 Total	B	201			24D0241	CAT B - Report to MDL
24D0735-12	Calcium 6010 Total	B	202			24D0241	CAT B - Report to MDL
24D0735-12	Chromium 6010 Total	B	203			24D0241	CAT B - Report to MDL
24D0735-12	Cobalt 6010 Total	B	204			24D0241	CAT B - Report to MDL
24D0735-12	Iron 6010 Total	B	205			24D0241	CAT B - Report to MDL
24D0735-12	Lead 6010 Total	B	206			24D0241	CAT B - Report to MDL
24D0735-12	Magnesium 6010 Total	B	207			24D0241	CAT B - Report to MDL
24D0735-12	Manganese 6010 Total	B	208			24D0241	CAT B - Report to MDL
24D0735-12	Nickel 6010 Total	B	209			24D0241	CAT B - Report to MDL
24D0735-12	Potassium 6010 Total	B	210			24D0241	CAT B - Report to MDL
24D0735-12	Selenium 6010 Total	B	211			24D0241	CAT B - Report to MDL
24D0735-12	Silver 6010 Total	B	212			24D0241	CAT B - Report to MDL
24D0735-12	Thallium 6010 Total	B	213			24D0241	CAT B - Report to MDL
24D0735-12	Vanadium 6010 Total	B	214			24D0241	CAT B - Report to MDL
24D0735-12	Zinc 6010 Total	B	215			24D0241	CAT B - Report to MDL
24D0735-13	Aluminum 6010 Total	B	216			24D0241	CAT B - Report to MDL
24D0735-13	Antimony 6010 Total	B	217			24D0241	CAT B - Report to MDL
24D0735-13	Arsenic 6010 Total	B	218			24D0241	CAT B - Report to MDL
24D0735-13	Barium 6010 Total	B	219			24D0241	CAT B - Report to MDL
24D0735-13	Beryllium 6010 Total	B	220			24D0241	CAT B - Report to MDL
24D0735-13	Cadmium 6010 Total	B	221			24D0241	CAT B - Report to MDL
24D0735-13	Calcium 6010 Total	B	222			24D0241	CAT B - Report to MDL
24D0735-13	Chromium 6010 Total	B	223			24D0241	CAT B - Report to MDL
24D0735-13	Cobalt 6010 Total	B	224			24D0241	CAT B - Report to MDL
24D0735-13	Iron 6010 Total	B	225			24D0241	CAT B - Report to MDL
24D0735-13	Lead 6010 Total	B	226			24D0241	CAT B - Report to MDL
24D0735-13	Magnesium 6010 Total	B	227			24D0241	CAT B - Report to MDL
24D0735-13	Manganese 6010 Total	B	228			24D0241	CAT B - Report to MDL
24D0735-13	Nickel 6010 Total	B	229			24D0241	CAT B - Report to MDL
24D0735-13	Potassium 6010 Total	B	230			24D0241	CAT B - Report to MDL
24D0735-13	Selenium 6010 Total	B	231			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-13	Silver 6010 Total	B	232			24D0241	CAT B - Report to MDL
24D0735-13	Thallium 6010 Total	B	233			24D0241	CAT B - Report to MDL
24D0735-13	Vanadium 6010 Total	B	234			24D0241	CAT B - Report to MDL
24D0735-13	Zinc 6010 Total	B	235			24D0241	CAT B - Report to MDL
S103313-CCV3	QC		236		24D0029	24D0241	
S103313-CCB3	QC		237		23J0970	24D0241	
24D0735-14	Aluminum 6010 Total	B	238			24D0241	CAT B - Report to MDL
24D0735-14	Antimony 6010 Total	B	239			24D0241	CAT B - Report to MDL
24D0735-14	Arsenic 6010 Total	B	240			24D0241	CAT B - Report to MDL
24D0735-14	Barium 6010 Total	B	241			24D0241	CAT B - Report to MDL
24D0735-14	Beryllium 6010 Total	B	242			24D0241	CAT B - Report to MDL
24D0735-14	Cadmium 6010 Total	B	243			24D0241	CAT B - Report to MDL
24D0735-14	Calcium 6010 Total	B	244			24D0241	CAT B - Report to MDL
24D0735-14	Chromium 6010 Total	B	245			24D0241	CAT B - Report to MDL
24D0735-14	Cobalt 6010 Total	B	246			24D0241	CAT B - Report to MDL
24D0735-14	Iron 6010 Total	B	247			24D0241	CAT B - Report to MDL
24D0735-14	Lead 6010 Total	B	248			24D0241	CAT B - Report to MDL
24D0735-14	Magnesium 6010 Total	B	249			24D0241	CAT B - Report to MDL
24D0735-14	Manganese 6010 Total	B	250			24D0241	CAT B - Report to MDL
24D0735-14	Nickel 6010 Total	B	251			24D0241	CAT B - Report to MDL
24D0735-14	Potassium 6010 Total	B	252			24D0241	CAT B - Report to MDL
24D0735-14	Selenium 6010 Total	B	253			24D0241	CAT B - Report to MDL
24D0735-14	Silver 6010 Total	B	254			24D0241	CAT B - Report to MDL
24D0735-14	Thallium 6010 Total	B	255			24D0241	CAT B - Report to MDL
24D0735-14	Vanadium 6010 Total	B	256			24D0241	CAT B - Report to MDL
24D0735-14	Zinc 6010 Total	B	257			24D0241	CAT B - Report to MDL
S103313-CCV4	QC		258		24D0029	24D0241	
S103313-CCB4	QC		259		23J0970	24D0241	
24D0735-15	Aluminum 6010 Total	A	260			24D0241	CAT B - Report to MDL
24D0735-15	Antimony 6010 Total	A	261			24D0241	CAT B - Report to MDL
24D0735-15	Arsenic 6010 Total	A	262			24D0241	CAT B - Report to MDL
24D0735-15	Barium 6010 Total	A	263			24D0241	CAT B - Report to MDL
24D0735-15	Beryllium 6010 Total	A	264			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-15	Cadmium 6010 Total	A	265			24D0241	CAT B - Report to MDL
24D0735-15	Calcium 6010 Total	A	266			24D0241	CAT B - Report to MDL
24D0735-15	Chromium 6010 Total	A	267			24D0241	CAT B - Report to MDL
24D0735-15	Cobalt 6010 Total	A	268			24D0241	CAT B - Report to MDL
24D0735-15	Iron 6010 Total	A	269			24D0241	CAT B - Report to MDL
24D0735-15	Lead 6010 Total	A	270			24D0241	CAT B - Report to MDL
24D0735-15	Magnesium 6010 Total	A	271			24D0241	CAT B - Report to MDL
24D0735-15	Manganese 6010 Total	A	272			24D0241	CAT B - Report to MDL
24D0735-15	Nickel 6010 Total	A	273			24D0241	CAT B - Report to MDL
24D0735-15	Selenium 6010 Total	A	274			24D0241	CAT B - Report to MDL
24D0735-15	Silver 6010 Total	A	275			24D0241	CAT B - Report to MDL
24D0735-15	Thallium 6010 Total	A	276			24D0241	CAT B - Report to MDL
24D0735-15	Vanadium 6010 Total	A	277			24D0241	CAT B - Report to MDL
24D0735-15	Zinc 6010 Total	A	278			24D0241	CAT B - Report to MDL
24D0735-16	Aluminum 6010 Total	B	279			24D0241	CAT B - Report to MDL
24D0735-16	Antimony 6010 Total	B	280			24D0241	CAT B - Report to MDL
24D0735-16	Arsenic 6010 Total	B	281			24D0241	CAT B - Report to MDL
24D0735-16	Barium 6010 Total	B	282			24D0241	CAT B - Report to MDL
24D0735-16	Beryllium 6010 Total	B	283			24D0241	CAT B - Report to MDL
24D0735-16	Cadmium 6010 Total	B	284			24D0241	CAT B - Report to MDL
24D0735-16	Calcium 6010 Total	B	285			24D0241	CAT B - Report to MDL
24D0735-16	Chromium 6010 Total	B	286			24D0241	CAT B - Report to MDL
24D0735-16	Cobalt 6010 Total	B	287			24D0241	CAT B - Report to MDL
24D0735-16	Iron 6010 Total	B	288			24D0241	CAT B - Report to MDL
24D0735-16	Lead 6010 Total	B	289			24D0241	CAT B - Report to MDL
24D0735-16	Magnesium 6010 Total	B	290			24D0241	CAT B - Report to MDL
24D0735-16	Manganese 6010 Total	B	291			24D0241	CAT B - Report to MDL
24D0735-16	Nickel 6010 Total	B	292			24D0241	CAT B - Report to MDL
24D0735-16	Selenium 6010 Total	B	293			24D0241	CAT B - Report to MDL
24D0735-16	Silver 6010 Total	B	294			24D0241	CAT B - Report to MDL
24D0735-16	Thallium 6010 Total	B	295			24D0241	CAT B - Report to MDL
24D0735-16	Vanadium 6010 Total	B	296			24D0241	CAT B - Report to MDL
24D0735-16	Zinc 6010 Total	B	297			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103313

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-17	Aluminum 6010 Total	A	298			24D0241	CAT B - Report to MDL
24D0735-17	Antimony 6010 Total	A	299			24D0241	CAT B - Report to MDL
24D0735-17	Arsenic 6010 Total	A	300			24D0241	CAT B - Report to MDL
24D0735-17	Barium 6010 Total	A	301			24D0241	CAT B - Report to MDL
24D0735-17	Beryllium 6010 Total	A	302			24D0241	CAT B - Report to MDL
24D0735-17	Cadmium 6010 Total	A	303			24D0241	CAT B - Report to MDL
24D0735-17	Calcium 6010 Total	A	304			24D0241	CAT B - Report to MDL
24D0735-17	Chromium 6010 Total	A	305			24D0241	CAT B - Report to MDL
24D0735-17	Cobalt 6010 Total	A	306			24D0241	CAT B - Report to MDL
24D0735-17	Iron 6010 Total	A	307			24D0241	CAT B - Report to MDL
24D0735-17	Lead 6010 Total	A	308			24D0241	CAT B - Report to MDL
24D0735-17	Magnesium 6010 Total	A	309			24D0241	CAT B - Report to MDL
24D0735-17	Manganese 6010 Total	A	310			24D0241	CAT B - Report to MDL
24D0735-17	Nickel 6010 Total	A	311			24D0241	CAT B - Report to MDL
24D0735-17	Selenium 6010 Total	A	312			24D0241	CAT B - Report to MDL
24D0735-17	Silver 6010 Total	A	313			24D0241	CAT B - Report to MDL
24D0735-17	Thallium 6010 Total	A	314			24D0241	CAT B - Report to MDL
24D0735-17	Vanadium 6010 Total	A	315			24D0241	CAT B - Report to MDL
24D0735-17	Zinc 6010 Total	A	316			24D0241	CAT B - Report to MDL
S103313-CCV5	QC		317		24D0029	24D0241	
S103313-CCB5	QC		318		23J0970	24D0241	
S103313-IFA3	QC		319		24C0959	24D0241	
S103313-IFB3	QC		320		24D0240	24D0241	

Samples Loaded By

Date

Data Processed By

Date

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Analysis Begun

Start Time: 4/17/2024 11:21:33 AM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/17/2024 11:21:33 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 11:23:57 AM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 11

Autosampler Location: 7

Sample ID: RINSE

Date Collected: 4/17/2024 11:23:58 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

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Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5464413.6	99.45 %	0.713			0.72%
Y radial	199216.6	103.7 %	0.15			0.14%
Ag 328.068†	339.6	0.0012 mg/L	0.00020	0.0012 mg/L	0.00020	17.10%
Al 396.153†	29.5	0.0076 mg/L	0.00176	0.0076 mg/L	0.00176	23.00%
As 188.979†	9.1	0.0026 mg/L	0.00084	0.0026 mg/L	0.00084	32.31%
B 208.889†	6050.7	0.3228 mg/L	0.01119	0.3228 mg/L	0.01119	3.47%
Ba 233.527†	51.9	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	28.56%
Be 313.107†	205.0	0.0005 mg/L	0.00003	0.0005 mg/L	0.00003	7.36%
Ca 317.933†	97.5	0.0140 mg/L	0.00118	0.0140 mg/L	0.00118	8.39%
Cd 228.802†	78.5	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	12.44%
Co 228.616†	39.7	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	11.81%
Cr 267.716†	74.7	0.0006 mg/L	0.00004	0.0006 mg/L	0.00004	6.50%
Cu 327.393†	6173.1	0.0347 mg/L	0.00134	0.0347 mg/L	0.00134	3.85%
Fe 238.204†	15.7	0.0066 mg/L	0.00202	0.0066 mg/L	0.00202	30.42%
K 766.490†	393.1	0.1187 mg/L	0.01486	0.1187 mg/L	0.01486	12.52%
Mg 285.213†	32.7	0.0038 mg/L	0.00054	0.0038 mg/L	0.00054	14.15%
Mn 257.610†	5.9	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	48.25%
Mo 202.031†	0.3	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	520.97%
Na 589.592†	1663.2	0.1368 mg/L	0.00722	0.1368 mg/L	0.00722	5.28%
Ni 231.604†	4.2	0.0001 mg/L	0.00028	0.0001 mg/L	0.00028	269.89%
Pb 220.353†	22.8	0.0018 mg/L	0.00026	0.0018 mg/L	0.00026	14.92%
Sb 206.836†	1.6	0.0002 mg/L	0.00049	0.0002 mg/L	0.00049	206.24%
Se 196.026†	12.5	0.0062 mg/L	0.00057	0.0062 mg/L	0.00057	9.24%
Sn 189.927†	3.9	0.0005 mg/L	0.00049	0.0005 mg/L	0.00049	109.52%

Ti 337.279†	7.4	0.0004 mg/L	0.00026	0.0004 mg/L	0.00026	66.26%
Tl 351.924†	16.0	0.0013 mg/L	0.00279	0.0013 mg/L	0.00279	207.28%
V 290.880†	247.7	0.0011 mg/L	0.00088	0.0011 mg/L	0.00088	79.41%
Zn 206.200†	1130.8	0.0157 mg/L	0.00056	0.0157 mg/L	0.00056	3.56%
Zr 343.823†	-98.4	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	43.19%

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/17/2024 11:29:28 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5431920.3	98.86 %		0.492				0.50%
Y radial	201520.8	104.9 %		0.56				0.54%
Ag 328.068†	375.5	0.0013 mg/L		0.00035	0.0013 mg/L		0.00035	27.34%
Al 396.153†	-8.3	-0.0021 mg/L		0.00334	-0.0021 mg/L		0.00334	156.68%
As 188.979†	-1.4	-0.0005 mg/L		0.00092	-0.0005 mg/L		0.00092	178.32%
B 208.889†	4194.6	0.2238 mg/L		0.00842	0.2238 mg/L		0.00842	3.76%
Ba 233.527†	29.6	0.0002 mg/L		0.00003	0.0002 mg/L		0.00003	19.16%
Be 313.107†	146.4	0.0003 mg/L		0.00006	0.0003 mg/L		0.00006	17.81%
Ca 317.933†	74.2	0.0107 mg/L		0.00087	0.0107 mg/L		0.00087	8.18%
Cd 228.802†	46.6	0.0004 mg/L		0.00005	0.0004 mg/L		0.00005	11.60%
Co 228.616†	15.6	0.0002 mg/L		0.00005	0.0002 mg/L		0.00005	29.42%
Cr 267.716†	52.1	0.0004 mg/L		0.00008	0.0004 mg/L		0.00008	19.83%
Cu 327.393†	3683.1	0.0207 mg/L		0.00106	0.0207 mg/L		0.00106	5.14%
Fe 238.204†	5.8	0.0024 mg/L		0.00072	0.0024 mg/L		0.00072	29.68%
K 766.490†	233.4	0.0705 mg/L		0.01489	0.0705 mg/L		0.01489	21.13%
Mg 285.213†	21.1	0.0025 mg/L		0.00031	0.0025 mg/L		0.00031	12.43%
Mn 257.610†	1.9	0.0001 mg/L		0.00019	0.0001 mg/L		0.00019	249.42%
Mo 202.031†	-0.0	-0.0000 mg/L		0.00014	-0.0000 mg/L		0.00014	>999.9%
Na 589.592†	725.4	0.0597 mg/L		0.00725	0.0597 mg/L		0.00725	12.15%
Ni 231.604†	-7.6	-0.0002 mg/L		0.00015	-0.0002 mg/L		0.00015	76.68%
Pb 220.353†	12.1	0.0009 mg/L		0.00029	0.0009 mg/L		0.00029	30.65%
Sb 206.836†	-0.3	-0.0000 mg/L		0.00041	-0.0000 mg/L		0.00041	883.77%
Se 196.026†	4.1	0.0020 mg/L		0.00171	0.0020 mg/L		0.00171	83.79%
Sn 189.927†	3.2	0.0004 mg/L		0.00049	0.0004 mg/L		0.00049	132.37%
Ti 337.279†	4.6	0.0002 mg/L		0.00010	0.0002 mg/L		0.00010	42.09%
Tl 351.924†	45.4	0.0038 mg/L		0.00224	0.0038 mg/L		0.00224	58.69%
V 290.880†	432.8	0.0019 mg/L		0.00019	0.0019 mg/L		0.00019	9.52%
Zn 206.200†	754.1	0.0104 mg/L		0.00042	0.0104 mg/L		0.00042	4.06%
Zr 343.823†	-31.0	-0.0001 mg/L		0.00019	-0.0001 mg/L		0.00019	281.46%

Sequence No.: 13

Sample ID: B371472-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 38

Date Collected: 4/17/2024 11:34:59 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5510349.3	100.3 %		0.51				0.50%
Y radial	203771.2	106.1 %		0.51				0.48%
Ag 328.068†	281.0	0.0010 mg/L		0.00017	0.0010 mg/L		0.00017	18.10%
Al 396.153†	16.8	0.0044 mg/L		0.00901	0.0044 mg/L		0.00901	207.07%
As 188.979†	0.5	0.0001 mg/L		0.00124	0.0001 mg/L		0.00124	>999.9%
B 208.889†	3368.9	0.1797 mg/L		0.00095	0.1797 mg/L		0.00095	0.53%
Ba 233.527†	4.7	0.0000 mg/L		0.00003	0.0000 mg/L		0.00003	97.99%
Be 313.107†	74.6	0.0002 mg/L		0.00003	0.0002 mg/L		0.00003	18.48%
Ca 317.933†	240.2	0.0345 mg/L		0.00165	0.0345 mg/L		0.00165	4.78%
Cd 228.802†	27.4	0.0002 mg/L		0.00002	0.0002 mg/L		0.00002	9.14%

Co 228.616†	20.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	12.30%
Cr 267.716†	17.9	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	40.57%
Cu 327.393†	2213.9	0.0124 mg/L	0.00024	0.0124 mg/L	0.00024	1.96%
Fe 238.204†	8.3	0.0035 mg/L	0.00130	0.0035 mg/L	0.00130	37.08%
K 766.490†	132.6	0.0401 mg/L	0.00382	0.0401 mg/L	0.00382	9.55%
Mg 285.213†	22.5	0.0026 mg/L	0.00025	0.0026 mg/L	0.00025	9.52%
Mn 257.610†	2.5	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	69.79%
Mo 202.031†	4.1	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	77.86%
Na 589.592†	445.1	0.0366 mg/L	0.00193	0.0366 mg/L	0.00193	5.28%
Ni 231.604†	-9.1	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	54.68%
Pb 220.353†	-2.3	-0.0002 mg/L	0.00061	-0.0002 mg/L	0.00061	290.37%
Sb 206.836†	3.4	0.0005 mg/L	0.00117	0.0005 mg/L	0.00117	216.39%
Se 196.026†	1.3	0.0006 mg/L	0.00115	0.0006 mg/L	0.00115	178.32%
Sn 189.927†	2.6	0.0003 mg/L	0.00051	0.0003 mg/L	0.00051	169.94%
Ti 337.279†	-7.8	-0.0004 mg/L	0.00012	-0.0004 mg/L	0.00012	28.70%
Tl 351.924†	45.9	0.0039 mg/L	0.00080	0.0039 mg/L	0.00080	20.61%
V 290.880†	444.8	0.0020 mg/L	0.00013	0.0020 mg/L	0.00013	6.70%
Zn 206.200†	588.0	0.0081 mg/L	0.00007	0.0081 mg/L	0.00007	0.89%
Zr 343.823†	-78.1	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	50.36%

Sequence No.: 14

Sample ID: B371472-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 39

Date Collected: 4/17/2024 11:40:30 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5388498.7	98.07 %		0.631			0.64%
Y radial	201939.8	105.1 %		1.18			1.13%
Ag 328.068†	153496.5	0.5190 mg/L		0.00599	0.5190 mg/L	0.00599	1.15%
Al 396.153†	2044.3	0.5095 mg/L		0.00316	0.5095 mg/L	0.00316	0.62%
As 188.979†	1596.1	0.4781 mg/L		0.00093	0.4781 mg/L	0.00093	0.19%
B 208.889†	20737.0	1.082 mg/L		0.0169	1.082 mg/L	0.0169	1.56%
Ba 233.527†	85643.0	0.5061 mg/L		0.00634	0.5061 mg/L	0.00634	1.25%
Be 313.107†	223086.1	0.5029 mg/L		0.00577	0.5029 mg/L	0.00577	1.15%
Ca 317.933†	27361.2	3.936 mg/L		0.0275	3.936 mg/L	0.0275	0.70%
Cd 228.802†	57757.0	0.4986 mg/L		0.00589	0.4986 mg/L	0.00589	1.18%
Co 228.616†	50457.6	0.4993 mg/L		0.00569	0.4993 mg/L	0.00569	1.14%
Cr 267.716†	65847.4	0.5038 mg/L		0.00616	0.5038 mg/L	0.00616	1.22%
Cu 327.393†	172980.0	0.9726 mg/L		0.01454	0.9726 mg/L	0.01454	1.49%
Fe 238.204†	9539.9	4.018 mg/L		0.0311	4.018 mg/L	0.0311	0.77%
K 766.490†	12561.0	3.794 mg/L		0.0266	3.794 mg/L	0.0266	0.70%
Mg 285.213†	34647.4	4.034 mg/L		0.0305	4.034 mg/L	0.0305	0.76%
Mn 257.610†	12381.2	0.4958 mg/L		0.00292	0.4958 mg/L	0.00292	0.59%
Mo 202.031†	12353.9	0.4907 mg/L		0.00255	0.4907 mg/L	0.00255	0.52%
Na 589.592†	41446.5	3.409 mg/L		0.0370	3.409 mg/L	0.0370	1.09%
Ni 231.604†	20096.2	0.5040 mg/L		0.00669	0.5040 mg/L	0.00669	1.33%
Pb 220.353†	6257.6	0.5019 mg/L		0.00319	0.5019 mg/L	0.00319	0.63%
Sb 206.836†	3187.2	0.4974 mg/L		0.00142	0.4974 mg/L	0.00142	0.29%
Se 196.026†	1016.5	0.5043 mg/L		0.00207	0.5043 mg/L	0.00207	0.41%
Sn 189.927†	4259.3	0.4949 mg/L		0.00219	0.4949 mg/L	0.00219	0.44%
Ti 337.279†	9380.9	0.4951 mg/L		0.00423	0.4951 mg/L	0.00423	0.86%
Tl 351.924†	5809.1	0.4880 mg/L		0.00805	0.4880 mg/L	0.00805	1.65%
V 290.880†	110646.4	0.4976 mg/L		0.00681	0.4976 mg/L	0.00681	1.37%
Zn 206.200†	73427.6	1.019 mg/L		0.0102	1.019 mg/L	0.0102	1.00%
Zr 343.823†	1446.0	0.0031 mg/L		0.00073	0.0031 mg/L	0.00073	23.38%

Sequence No.: 15

Sample ID: B371472-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 40

Date Collected: 4/17/2024 11:45:07 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5490303.3	99.92	%	0.477				0.48%
Y radial	205377.6	106.9	%	1.64				1.53%
Ag 328.068†	152553.4	0.5158	mg/L	0.00573	0.5158	mg/L	0.00573	1.11%
Al 396.153†	1999.5	0.4979	mg/L	0.01077	0.4979	mg/L	0.01077	2.16%
As 188.979†	1578.7	0.4729	mg/L	0.00325	0.4729	mg/L	0.00325	0.69%
B 208.889†	20236.2	1.055	mg/L	0.0133	1.055	mg/L	0.0133	1.26%
Ba 233.527†	85083.8	0.5028	mg/L	0.00711	0.5028	mg/L	0.00711	1.41%
Be 313.107†	220940.4	0.4981	mg/L	0.00618	0.4981	mg/L	0.00618	1.24%
Ca 317.933†	27154.9	3.906	mg/L	0.0688	3.906	mg/L	0.0688	1.76%
Cd 228.802†	57311.9	0.4948	mg/L	0.00603	0.4948	mg/L	0.00603	1.22%
Co 228.616†	50099.7	0.4957	mg/L	0.00681	0.4957	mg/L	0.00681	1.37%
Cr 267.716†	65603.9	0.5019	mg/L	0.00616	0.5019	mg/L	0.00616	1.23%
Cu 327.393†	171493.0	0.9642	mg/L	0.01882	0.9642	mg/L	0.01882	1.95%
Fe 238.204†	9481.2	3.994	mg/L	0.0571	3.994	mg/L	0.0571	1.43%
K 766.490†	12508.1	3.778	mg/L	0.0671	3.778	mg/L	0.0671	1.78%
Mg 285.213†	34448.2	4.011	mg/L	0.0493	4.011	mg/L	0.0493	1.23%
Mn 257.610†	12332.5	0.4938	mg/L	0.00845	0.4938	mg/L	0.00845	1.71%
Mo 202.031†	12346.6	0.4904	mg/L	0.00307	0.4904	mg/L	0.00307	0.63%
Na 589.592†	40888.8	3.363	mg/L	0.0351	3.363	mg/L	0.0351	1.04%
Ni 231.604†	19965.6	0.5008	mg/L	0.00465	0.5008	mg/L	0.00465	0.93%
Pb 220.353†	6210.8	0.4982	mg/L	0.00225	0.4982	mg/L	0.00225	0.45%
Sb 206.836†	3150.5	0.4916	mg/L	0.00308	0.4916	mg/L	0.00308	0.63%
Se 196.026†	995.9	0.4941	mg/L	0.00103	0.4941	mg/L	0.00103	0.21%
Sn 189.927†	4237.5	0.4924	mg/L	0.00361	0.4924	mg/L	0.00361	0.73%
Ti 337.279†	9341.8	0.4930	mg/L	0.00717	0.4930	mg/L	0.00717	1.45%
Tl 351.924†	5652.9	0.4749	mg/L	0.00646	0.4749	mg/L	0.00646	1.36%
V 290.880†	109302.7	0.4916	mg/L	0.00718	0.4916	mg/L	0.00718	1.46%
Zn 206.200†	72712.4	1.009	mg/L	0.0099	1.009	mg/L	0.0099	0.98%
Zr 343.823†	635.8	0.0013	mg/L	0.00013	0.0013	mg/L	0.00013	9.54%

Sequence No.: 16

Sample ID: B371472-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 41

Date Collected: 4/17/2024 11:49:44 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5014525.7	91.26	%	0.349				0.38%
Y radial	196236.5	102.1	%	0.39				0.38%
Ag 328.068†	153231.3	0.5181	mg/L	0.00286	0.5181	mg/L	0.00286	0.55%
Al 396.153†	2073.5	0.5169	mg/L	0.00295	0.5169	mg/L	0.00295	0.57%
As 188.979†	1725.6	0.5180	mg/L	0.00272	0.5180	mg/L	0.00272	0.52%
B 208.889†	21356.9	1.114	mg/L	0.0049	1.114	mg/L	0.0049	0.44%
Ba 233.527†	85621.7	0.5060	mg/L	0.00311	0.5060	mg/L	0.00311	0.61%
Be 313.107†	219636.4	0.4951	mg/L	0.00130	0.4951	mg/L	0.00130	0.26%
Ca 317.933†	420530.7	60.49	mg/L	0.108	60.49	mg/L	0.108	0.18%
Cd 228.802†	59104.5	0.5095	mg/L	0.00258	0.5095	mg/L	0.00258	0.51%
Co 228.616†	49054.6	0.4854	mg/L	0.00262	0.4854	mg/L	0.00262	0.54%
Cr 267.716†	64404.7	0.4928	mg/L	0.00275	0.4928	mg/L	0.00275	0.56%
Cu 327.393†	185297.6	1.042	mg/L	0.0050	1.042	mg/L	0.0050	0.48%
Fe 238.204†	9460.1	3.985	mg/L	0.0081	3.985	mg/L	0.0081	0.20%
K 766.490†	220436.0	66.59	mg/L	0.330	66.59	mg/L	0.330	0.50%
Mg 285.213†	96766.9	11.25	mg/L	0.014	11.25	mg/L	0.014	0.12%
Mn 257.610†	12913.5	0.5171	mg/L	0.00217	0.5171	mg/L	0.00217	0.42%
Mo 202.031†	12464.5	0.4951	mg/L	0.00373	0.4951	mg/L	0.00373	0.75%
Na 589.592†	2979148.5	245.0	mg/L	0.95	245.0	mg/L	0.95	0.39%
Ni 231.604†	19445.1	0.4877	mg/L	0.00278	0.4877	mg/L	0.00278	0.57%
Pb 220.353†	6048.1	0.4849	mg/L	0.00462	0.4849	mg/L	0.00462	0.95%
Sb 206.836†	3269.8	0.5104	mg/L	0.00405	0.5104	mg/L	0.00405	0.79%
Se 196.026†	1039.6	0.5086	mg/L	0.00663	0.5086	mg/L	0.00663	1.30%
Sn 189.927†	3966.3	0.4609	mg/L	0.00348	0.4609	mg/L	0.00348	0.76%

Ti 337.279†	9283.5	0.4899 mg/L	0.00190	0.4899 mg/L	0.00190	0.39%
Tl 351.924†	5409.2	0.4543 mg/L	0.00345	0.4543 mg/L	0.00345	0.76%
V 290.880†	111713.4	0.5024 mg/L	0.00255	0.5024 mg/L	0.00255	0.51%
Zn 206.200†	74800.1	1.017 mg/L	0.0085	1.017 mg/L	0.0085	0.84%
Zr 343.823†	842.7	0.0018 mg/L	0.00012	0.0018 mg/L	0.00012	7.03%

Sequence No.: 17

Sample ID: B371472-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 42

Date Collected: 4/17/2024 11:54:25 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371472-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5057300.7	92.04	%	0.773				0.84%
Y radial	193655.8	100.8	%	1.24				1.23%
Ag 328.068†	-581.6	-0.0019	mg/L	0.00013	-0.0019	mg/L	0.00013	6.80%
Al 396.153†	58.4	0.0150	mg/L	0.00260	0.0150	mg/L	0.00260	17.30%
As 188.979†	49.5	0.0160	mg/L	0.00086	0.0160	mg/L	0.00086	5.36%
B 208.889†	2527.7	0.1347	mg/L	0.00357	0.1347	mg/L	0.00357	2.65%
Ba 233.527†	2106.7	0.0124	mg/L	0.00023	0.0124	mg/L	0.00023	1.81%
Be 313.107†	107.3	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.88%
Ca 317.933†	403696.8	58.07	mg/L	0.405	58.07	mg/L	0.405	0.70%
Cd 228.802†	8.9	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	25.33%
Co 228.616†	153.4	0.0015	mg/L	0.00008	0.0015	mg/L	0.00008	5.25%
Cr 267.716†	181.1	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.37%
Cu 327.393†	2505.7	0.0141	mg/L	0.00046	0.0141	mg/L	0.00046	3.28%
Fe 238.204†	145.9	0.0614	mg/L	0.00043	0.0614	mg/L	0.00043	0.70%
K 766.490†	213333.4	64.44	mg/L	0.556	64.44	mg/L	0.556	0.86%
Mg 285.213†	65656.0	7.623	mg/L	0.0767	7.623	mg/L	0.0767	1.01%
Mn 257.610†	972.8	0.0389	mg/L	0.00044	0.0389	mg/L	0.00044	1.12%
Mo 202.031†	55.5	0.0022	mg/L	0.00011	0.0022	mg/L	0.00011	5.16%
Na 589.592†	3019280.0	248.3	mg/L	3.50	248.3	mg/L	3.50	1.41%
Ni 231.604†	215.0	0.0054	mg/L	0.00010	0.0054	mg/L	0.00010	1.77%
Pb 220.353†	46.7	0.0037	mg/L	0.00088	0.0037	mg/L	0.00088	23.63%
Sb 206.836†	17.2	0.0025	mg/L	0.00063	0.0025	mg/L	0.00063	24.89%
Se 196.026†	8.8	-0.0031	mg/L	0.00156	-0.0031	mg/L	0.00156	50.17%
Sn 189.927†	-297.8	-0.0346	mg/L	0.00088	-0.0346	mg/L	0.00088	2.53%
Ti 337.279†	2.9	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	143.54%
Tl 351.924†	-687.4	-0.0579	mg/L	0.00085	-0.0579	mg/L	0.00085	1.47%
V 290.880†	1398.0	0.0063	mg/L	0.00029	0.0063	mg/L	0.00029	4.54%
Zn 206.200†	699.4	-0.0114	mg/L	0.00031	-0.0114	mg/L	0.00031	2.71%
Zr 343.823†	373.6	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	7.16%

Sequence No.: 18

Sample ID: 24D1483-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 43

Date Collected: 4/17/2024 12:00:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1483-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5018288.7	91.33	%	0.273				0.30%
Y radial	194372.4	101.2	%	1.09				1.08%
Ag 328.068†	-549.7	-0.0018	mg/L	0.00038	-0.0018	mg/L	0.00038	20.47%
Al 396.153†	45.6	0.0117	mg/L	0.00308	0.0117	mg/L	0.00308	26.28%
As 188.979†	54.6	0.0175	mg/L	0.00122	0.0175	mg/L	0.00122	6.95%
B 208.889†	2134.3	0.1138	mg/L	0.00271	0.1138	mg/L	0.00271	2.38%
Ba 233.527†	2083.4	0.0123	mg/L	0.00002	0.0123	mg/L	0.00002	0.13%
Be 313.107†	99.2	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	17.53%
Ca 317.933†	394079.9	56.69	mg/L	0.775	56.69	mg/L	0.775	1.37%
Cd 228.802†	3.0	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	1.81%

Co 228.616†	155.9	0.0015 mg/L	0.00011	0.0015 mg/L	0.00011	6.93%
Cr 267.716†	180.9	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	3.04%
Cu 327.393†	1978.7	0.0111 mg/L	0.00013	0.0111 mg/L	0.00013	1.16%
Fe 238.204†	136.9	0.0576 mg/L	0.00038	0.0576 mg/L	0.00038	0.67%
K 766.490†	219284.0	66.24 mg/L	0.976	66.24 mg/L	0.976	1.47%
Mg 285.213†	64312.9	7.467 mg/L	0.1136	7.467 mg/L	0.1136	1.52%
Mn 257.610†	950.2	0.0380 mg/L	0.00090	0.0380 mg/L	0.00090	2.37%
Mo 202.031†	44.7	0.0018 mg/L	0.00019	0.0018 mg/L	0.00019	10.84%
Na 589.592†	3190022.1	262.3 mg/L	4.13	262.3 mg/L	4.13	1.57%
Ni 231.604†	222.5	0.0056 mg/L	0.00023	0.0056 mg/L	0.00023	4.17%
Pb 220.353†	32.0	0.0026 mg/L	0.00116	0.0026 mg/L	0.00116	45.23%
Sb 206.836†	21.5	0.0032 mg/L	0.00037	0.0032 mg/L	0.00037	11.50%
Se 196.026†	7.3	-0.0037 mg/L	0.00066	-0.0037 mg/L	0.00066	17.95%
Sn 189.927†	-301.6	-0.0350 mg/L	0.00012	-0.0350 mg/L	0.00012	0.35%
Ti 337.279†	6.5	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	61.83%
Tl 351.924†	-718.6	-0.0605 mg/L	0.00050	-0.0605 mg/L	0.00050	0.83%
V 290.880†	1211.5	0.0054 mg/L	0.00043	0.0054 mg/L	0.00043	7.87%
Zn 206.200†	597.2	-0.0140 mg/L	0.00048	-0.0140 mg/L	0.00048	3.41%
Zr 343.823†	382.6	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	7.42%

Sequence No.: 19

Sample ID: 24D1211-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 44

Date Collected: 4/17/2024 12:05:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1211-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	3500770.6	63.71 %		0.355			0.56%
Y radial	163058.3	84.86 %		1.387			1.63%
Ag 328.068†	161.5	0.0006 mg/L		0.00011	0.0006 mg/L	0.00011	17.24%
Al 396.153†	1988.5	0.5129 mg/L		0.01120	0.5129 mg/L	0.01120	2.18%
As 188.979†	95.0	0.0247 mg/L		0.00189	0.0247 mg/L	0.00189	7.67%
B 208.889†	3619.4	0.1911 mg/L		0.00489	0.1911 mg/L	0.00489	2.56%
Ba 233.527†	2375.7	0.0139 mg/L		0.00014	0.0139 mg/L	0.00014	0.98%
Be 313.107†	243.3	0.0005 mg/L		0.00005	0.0005 mg/L	0.00005	11.23%
Ca 317.933†	28550.9	4.107 mg/L		0.0302	4.107 mg/L	0.0302	0.74%
Cd 228.802†	180.6	0.0010 mg/L		0.00006	0.0010 mg/L	0.00006	5.74%
Co 228.616†	278.8	0.0027 mg/L		0.00008	0.0027 mg/L	0.00008	2.92%
Cr 267.716†	120317.8	0.9202 mg/L		0.00307	0.9202 mg/L	0.00307	0.33%
Cu 327.393†	6295.7	0.0354 mg/L		0.00084	0.0354 mg/L	0.00084	2.38%
Fe 238.204†	3445.1	1.450 mg/L		0.0192	1.450 mg/L	0.0192	1.32%
K 766.490†	66886.5	20.20 mg/L		0.302	20.20 mg/L	0.302	1.49%
Mg 285.213†	40210.1	4.679 mg/L		0.0069	4.679 mg/L	0.0069	0.15%
Mn 257.610†	1172.5	0.0470 mg/L		0.00079	0.0470 mg/L	0.00079	1.67%
Mo 202.031†	971.7	0.0386 mg/L		0.00033	0.0386 mg/L	0.00033	0.84%
Na 589.592†	Saturated2						
Ni 231.604†	3888.6	0.0976 mg/L		0.00096	0.0976 mg/L	0.00096	0.99%
Pb 220.353†	28.8	0.0026 mg/L		0.00098	0.0026 mg/L	0.00098	37.55%
Sb 206.836†	140.4	0.0043 mg/L		0.00120	0.0043 mg/L	0.00120	27.94%
Se 196.026†	56.2	0.0267 mg/L		0.00807	0.0267 mg/L	0.00807	30.28%
Sn 189.927†	-312.8	-0.0364 mg/L		0.00428	-0.0364 mg/L	0.00428	11.77%
Ti 337.279†	148.3	0.0078 mg/L		0.00065	0.0078 mg/L	0.00065	8.30%
Tl 351.924†	36.4	0.0039 mg/L		0.00656	0.0039 mg/L	0.00656	168.43%
V 290.880†	4497.9	0.0201 mg/L		0.00081	0.0201 mg/L	0.00081	4.03%
Zn 206.200†	4182.0	0.0657 mg/L		0.00013	0.0657 mg/L	0.00013	0.21%
Zr 343.823†	641.6	0.0014 mg/L		0.00019	0.0014 mg/L	0.00019	13.31%

Sequence No.: 20

Sample ID: 24D1331-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 45

Date Collected: 4/17/2024 12:13:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1331-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5273901.8	95.98	%	0.495				0.52%
Y radial	206342.5	107.4	%	1.02				0.95%
Ag 328.068†	271.1	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	3.68%
Al 396.153†	157.8	0.0408	mg/L	0.00141	0.0408	mg/L	0.00141	3.45%
As 188.979†	3.5	0.0015	mg/L	0.00089	0.0015	mg/L	0.00089	59.69%
B 208.889†	7391.8	0.3943	mg/L	0.00122	0.3943	mg/L	0.00122	0.31%
Ba 233.527†	5572.7	0.0328	mg/L	0.00015	0.0328	mg/L	0.00015	0.45%
Be 313.107†	-38.4	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	45.62%
Ca 317.933†	157474.4	22.65	mg/L	0.178	22.65	mg/L	0.178	0.79%
Cd 228.802†	22.9	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	45.57%
Co 228.616†	109.4	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.42%
Cr 267.716†	331.0	0.0025	mg/L	0.00010	0.0025	mg/L	0.00010	4.02%
Cu 327.393†	2825.4	0.0159	mg/L	0.00050	0.0159	mg/L	0.00050	3.16%
Fe 238.204†	1204.3	0.5070	mg/L	0.00694	0.5070	mg/L	0.00694	1.37%
K 766.490†	35985.1	10.87	mg/L	0.059	10.87	mg/L	0.059	0.54%
Mg 285.213†	78264.3	9.101	mg/L	0.0473	9.101	mg/L	0.0473	0.52%
Mn 257.610†	1066.4	0.0427	mg/L	0.00051	0.0427	mg/L	0.00051	1.20%
Mo 202.031†	42.4	0.0017	mg/L	0.00017	0.0017	mg/L	0.00017	10.07%
Na 589.592†	1439268.1	118.4	mg/L	3.69	118.4	mg/L	3.69	3.12%
Ni 231.604†	202.1	0.0051	mg/L	0.00002	0.0051	mg/L	0.00002	0.38%
Pb 220.353†	13.6	0.0011	mg/L	0.00032	0.0011	mg/L	0.00032	30.05%
Sb 206.836†	14.5	0.0021	mg/L	0.00005	0.0021	mg/L	0.00005	2.41%
Se 196.026†	14.9	0.0033	mg/L	0.00057	0.0033	mg/L	0.00057	17.40%
Sn 189.927†	-203.8	-0.0237	mg/L	0.00043	-0.0237	mg/L	0.00043	1.80%
Ti 337.279†	12.9	0.0007	mg/L	0.00036	0.0007	mg/L	0.00036	52.25%
Tl 351.924†	-20.4	-0.0014	mg/L	0.00331	-0.0014	mg/L	0.00331	235.00%
V 290.880†	1009.6	0.0045	mg/L	0.00019	0.0045	mg/L	0.00019	4.12%
Zn 206.200†	2647.6	0.0266	mg/L	0.00025	0.0266	mg/L	0.00025	0.93%
Zr 343.823†	152.2	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	41.34%

Sequence No.: 21

Sample ID: 24D1394-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 46

Date Collected: 4/17/2024 12:18:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1394-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5435117.5	98.92	%	1.191				1.20%
Y radial	206363.2	107.4	%	2.12				1.97%
Ag 328.068†	349.8	0.0012	mg/L	0.00030	0.0012	mg/L	0.00030	24.93%
Al 396.153†	52.1	0.0135	mg/L	0.00623	0.0135	mg/L	0.00623	46.33%
As 188.979†	-2.4	-0.0002	mg/L	0.00080	-0.0002	mg/L	0.00080	349.66%
B 208.889†	2028.2	0.1082	mg/L	0.00407	0.1082	mg/L	0.00407	3.77%
Ba 233.527†	4341.8	0.0256	mg/L	0.00018	0.0256	mg/L	0.00018	0.72%
Be 313.107†	36.0	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	78.27%
Ca 317.933†	175099.3	25.19	mg/L	0.371	25.19	mg/L	0.371	1.47%
Cd 228.802†	5.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	47.76%
Co 228.616†	74.2	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	16.88%
Cr 267.716†	130.8	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	7.48%
Cu 327.393†	3756.6	0.0211	mg/L	0.00054	0.0211	mg/L	0.00054	2.55%
Fe 238.204†	119.9	0.0505	mg/L	0.00137	0.0505	mg/L	0.00137	2.72%
K 766.490†	62112.3	18.76	mg/L	0.215	18.76	mg/L	0.215	1.15%
Mg 285.213†	45077.1	5.238	mg/L	0.0321	5.238	mg/L	0.0321	0.61%
Mn 257.610†	397.8	0.0159	mg/L	0.00045	0.0159	mg/L	0.00045	2.82%
Mo 202.031†	19.1	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	21.19%
Na 589.592†	647176.9	53.22	mg/L	0.608	53.22	mg/L	0.608	1.14%
Ni 231.604†	73.0	0.0018	mg/L	0.00025	0.0018	mg/L	0.00025	13.85%
Pb 220.353†	6.7	0.0005	mg/L	0.00060	0.0005	mg/L	0.00060	119.52%
Sb 206.836†	12.8	0.0019	mg/L	0.00057	0.0019	mg/L	0.00057	30.68%
Se 196.026†	7.9	0.0003	mg/L	0.00142	0.0003	mg/L	0.00142	490.88%
Sn 189.927†	-199.2	-0.0232	mg/L	0.00035	-0.0232	mg/L	0.00035	1.49%

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y axial	5462640.8	99.42	%	0.471			0.47%
Y radial	207904.7	108.2	%	1.01			0.93%
Ag 328.068†	649301.5	2.166	mg/L	0.0281	2.166	mg/L	0.0281
QC value	less than the lower limit for Ag 328.068			Recovery = 86.63%			
Al 396.153†	39102.8	9.861	mg/L	0.0348	9.861	mg/L	0.0348
QC value	within limits for Al 396.153			Recovery = 98.61%			
As 188.979†	16052.9	4.800	mg/L	0.0476	4.800	mg/L	0.0476
QC value	within limits for As 188.979			Recovery = 96.01%			
B 208.889†	89154.6	4.515	mg/L	0.0315	4.515	mg/L	0.0315
QC value	within limits for B 208.889			Recovery = 90.30%			

Ba 233.527†	816257.1	4.828 mg/L	0.0185	4.828 mg/L	0.0185	0.38%
QC value within limits for Ba 233.527		Recovery = 96.56%				
Be 313.107†	2138535.3	4.821 mg/L	0.0252	4.821 mg/L	0.0252	0.52%
QC value within limits for Be 313.107		Recovery = 96.42%				
Ca 317.933†	66144.9	9.514 mg/L	0.0807	9.514 mg/L	0.0807	0.85%
QC value within limits for Ca 317.933		Recovery = 95.14%				
Cd 228.802†	550572.1	4.747 mg/L	0.0222	4.747 mg/L	0.0222	0.47%
QC value within limits for Cd 228.802		Recovery = 94.93%				
Co 228.616†	485819.1	4.807 mg/L	0.0212	4.807 mg/L	0.0212	0.44%
QC value within limits for Co 228.616		Recovery = 96.14%				
Cr 267.716†	627401.1	4.801 mg/L	0.0186	4.801 mg/L	0.0186	0.39%
QC value within limits for Cr 267.716		Recovery = 96.02%				
Cu 327.393†	849099.3	4.791 mg/L	0.0169	4.791 mg/L	0.0169	0.35%
QC value within limits for Cu 327.393		Recovery = 95.82%				
Fe 238.204†	11299.7	4.782 mg/L	0.0233	4.782 mg/L	0.0233	0.49%
QC value within limits for Fe 238.204		Recovery = 95.65%				
K 766.490†	31911.4	9.639 mg/L	0.0289	9.639 mg/L	0.0289	0.30%
QC value within limits for K 766.490		Recovery = 96.39%				
Mg 285.213†	83760.7	9.723 mg/L	0.0367	9.723 mg/L	0.0367	0.38%
QC value within limits for Mg 285.213		Recovery = 97.23%				
Mn 257.610†	119512.5	4.783 mg/L	0.0318	4.783 mg/L	0.0318	0.66%
QC value within limits for Mn 257.610		Recovery = 95.66%				
Mo 202.031†	120779.6	4.797 mg/L	0.0179	4.797 mg/L	0.0179	0.37%
QC value within limits for Mo 202.031		Recovery = 95.94%				
Na 589.592†	139431.7	11.47 mg/L	0.045	11.47 mg/L	0.045	0.39%
QC value greater than the upper limit for Na 589.592		Recovery = 114.67%				
Ni 231.604†	192076.0	4.819 mg/L	0.0176	4.819 mg/L	0.0176	0.37%
QC value within limits for Ni 231.604		Recovery = 96.38%				
Pb 220.353†	60004.1	4.824 mg/L	0.0469	4.824 mg/L	0.0469	0.97%
QC value within limits for Pb 220.353		Recovery = 96.49%				
Sb 206.836†	30597.7	4.777 mg/L	0.0493	4.777 mg/L	0.0493	1.03%
QC value within limits for Sb 206.836		Recovery = 95.54%				
Se 196.026†	9711.6	4.828 mg/L	0.0579	4.828 mg/L	0.0579	1.20%
QC value within limits for Se 196.026		Recovery = 96.55%				
Sn 189.927†	41414.5	4.808 mg/L	0.0432	4.808 mg/L	0.0432	0.90%
QC value within limits for Sn 189.927		Recovery = 96.15%				
Ti 337.279†	91806.3	4.842 mg/L	0.0247	4.842 mg/L	0.0247	0.51%
QC value within limits for Ti 337.279		Recovery = 96.85%				
Tl 351.924†	28690.0	2.376 mg/L	0.0253	2.376 mg/L	0.0253	1.07%
QC value within limits for Tl 351.924		Recovery = 95.04%				
V 290.880†	1064143.4	4.789 mg/L	0.0225	4.789 mg/L	0.0225	0.47%
QC value within limits for V 290.880		Recovery = 95.77%				
Zn 206.200†	345870.6	4.821 mg/L	0.0237	4.821 mg/L	0.0237	0.49%
QC value within limits for Zn 206.200		Recovery = 96.43%				
Zr 343.823†	2169240.8	4.818 mg/L	0.0165	4.818 mg/L	0.0165	0.34%
QC Failed. Continue with analysis.						

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 12:35:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5454815.8	99.28 %	1.356			1.37%
Y radial	205933.9	107.2 %	0.29			0.27%
Ag 328.068†	965.0	0.0033 mg/L	0.00055	0.0033 mg/L	0.00055	16.90%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153†	8.1	0.0021 mg/L	0.00160	0.0021 mg/L	0.00160	77.25%
QC value within limits for Al 396.153		Recovery = Not calculated				
As 188.979†	6.5	0.0019 mg/L	0.00152	0.0019 mg/L	0.00152	79.02%
QC value within limits for As 188.979		Recovery = Not calculated				
B 208.889†	-157.0	-0.0084 mg/L	0.00294	-0.0084 mg/L	0.00294	34.84%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	-0.4	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	>999.9%

QC value within limits for Ba 233.527 Recovery = Not calculated
 Be 313.107† 10.2 0.0000 mg/L 0.00003 0.0000 mg/L 0.00003 265.87%
 QC value within limits for Be 313.107 Recovery = Not calculated
 Ca 317.933† -1.1 -0.0002 mg/L 0.00173 -0.0002 mg/L 0.00173 >999.9%
 QC value within limits for Ca 317.933 Recovery = Not calculated
 Cd 228.802† 9.8 0.0000 mg/L 0.00005 0.0000 mg/L 0.00005 118.84%
 QC value within limits for Cd 228.802 Recovery = Not calculated
 Co 228.616† 17.0 0.0002 mg/L 0.00004 0.0002 mg/L 0.00004 25.70%
 QC value within limits for Co 228.616 Recovery = Not calculated
 Cr 267.716† -7.5 -0.0001 mg/L 0.00004 -0.0001 mg/L 0.00004 69.42%
 QC value within limits for Cr 267.716 Recovery = Not calculated
 Cu 327.393† 607.7 0.0034 mg/L 0.00030 0.0034 mg/L 0.00030 8.76%
 QC value within limits for Cu 327.393 Recovery = Not calculated
 Fe 238.204† 6.1 0.0026 mg/L 0.00121 0.0026 mg/L 0.00121 47.58%
 QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† 482.2 0.1456 mg/L 0.01478 0.1456 mg/L 0.01478 10.15%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 3.3 0.0004 mg/L 0.00033 0.0004 mg/L 0.00033 86.68%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 1.6 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 134.42%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 24.3 0.0010 mg/L 0.00014 0.0010 mg/L 0.00014 14.84%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 26255.7 2.159 mg/L 0.0302 2.159 mg/L 0.0302 1.40%
 QC value greater than the upper limit for Na 589.592 Recovery = Not calculated
 Ni 231.604† -24.2 -0.0006 mg/L 0.00056 -0.0006 mg/L 0.00056 92.50%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 2.1 0.0002 mg/L 0.00062 0.0002 mg/L 0.00062 378.50%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 4.8 0.0008 mg/L 0.00102 0.0008 mg/L 0.00102 132.31%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† -0.6 -0.0003 mg/L 0.00099 -0.0003 mg/L 0.00099 365.81%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 7.7 0.0009 mg/L 0.00032 0.0009 mg/L 0.00032 35.27%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -5.7 -0.0003 mg/L 0.00026 -0.0003 mg/L 0.00026 86.32%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 54.6 0.0046 mg/L 0.00258 0.0046 mg/L 0.00258 56.11%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 506.9 0.0023 mg/L 0.00040 0.0023 mg/L 0.00040 17.65%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 71.5 0.0008 mg/L 0.00006 0.0008 mg/L 0.00006 7.28%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -85.7 -0.0002 mg/L 0.00010 -0.0002 mg/L 0.00010 53.20%
 QC Failed. Continue with analysis.

Sequence No.: 25

Sample ID: 24D1649-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 48

Date Collected: 4/17/2024 12:41:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1649-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4950410.5	90.10 %		0.676			0.75%
Y radial	189663.9	98.71 %		3.038			3.08%
Ag 328.068†	328.5	0.0011 mg/L		0.00018	0.0011 mg/L	0.00018	16.67%
Al 396.153†	1953.6	0.5054 mg/L		0.01638	0.5054 mg/L	0.01638	3.24%
As 188.979†	-123.2	-0.0360 mg/L		0.00057	-0.0360 mg/L	0.00057	1.59%
B 208.889†	572.9	0.0305 mg/L		0.00279	0.0305 mg/L	0.00279	9.14%
Ba 233.527†	2208.0	0.0129 mg/L		0.00016	0.0129 mg/L	0.00016	1.25%
Be 313.107†	53.7	0.0001 mg/L		0.00007	0.0001 mg/L	0.00007	83.69%
Ca 317.933†	164976.8	23.73 mg/L		0.451	23.73 mg/L	0.451	1.90%
Cd 228.802†	30.7	0.0011 mg/L		0.00002	0.0011 mg/L	0.00002	1.54%
Co 228.616†	70.5	0.0007 mg/L		0.00007	0.0007 mg/L	0.00007	9.66%
Cr 267.716†	1731.5	0.0132 mg/L		0.00047	0.0132 mg/L	0.00047	3.60%

Cu 327.393†	12020.7	0.0676 mg/L	0.00042	0.0676 mg/L	0.00042	0.62%
Fe 238.204†	2943.3	1.239 mg/L	0.0335	1.239 mg/L	0.0335	2.71%
K 766.490†	83294.8	25.16 mg/L	0.262	25.16 mg/L	0.262	1.04%
Mg 285.213†	23886.6	2.774 mg/L	0.0796	2.774 mg/L	0.0796	2.87%
Mn 257.610†	4177.0	0.1673 mg/L	0.00518	0.1673 mg/L	0.00518	3.10%
Mo 202.031†	11.7	0.0005 mg/L	0.00025	0.0005 mg/L	0.00025	53.02%
Na 589.592†	2708589.4	222.8 mg/L	2.90	222.8 mg/L	2.90	1.30%
Ni 231.604†	407.9	0.0102 mg/L	0.00055	0.0102 mg/L	0.00055	5.37%
Pb 220.353†	17.4	0.0013 mg/L	0.00025	0.0013 mg/L	0.00025	19.12%
Sb 206.836†	75.4	0.0115 mg/L	0.00136	0.0115 mg/L	0.00136	11.75%
Se 196.026†	60.7	0.0271 mg/L	0.00347	0.0271 mg/L	0.00347	12.78%
Sn 189.927†	-180.4	-0.0210 mg/L	0.00052	-0.0210 mg/L	0.00052	2.50%
Ti 337.279†	104.9	0.0055 mg/L	0.00026	0.0055 mg/L	0.00026	4.70%
Tl 351.924†	15.0	0.0020 mg/L	0.00583	0.0020 mg/L	0.00583	289.09%
V 290.880†	1744.0	0.0078 mg/L	0.00056	0.0078 mg/L	0.00056	7.25%
Zn 206.200†	8515.8	0.0992 mg/L	0.00099	0.0992 mg/L	0.00099	1.00%
Zr 343.823†	1099.9	0.0024 mg/L	0.00032	0.0024 mg/L	0.00032	13.21%

Sequence No.: 26

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 11

Date Collected: 4/17/2024 12:47:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5001240.3	91.02 %	0.195			0.21%
Y radial	196894.2	102.5 %	1.16			1.13%
Ag 328.068†	-1574.5	-0.0033 mg/L	0.00014	-0.0033 mg/L	0.00014	4.24%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	972980.9	251.7 mg/L	1.22	251.7 mg/L	1.22	0.48%
QC value within limits for Al 396.153	Recovery = 100.69%					
As 188.979†	-104.7	0.0007 mg/L	0.00392	0.0007 mg/L	0.00392	539.67%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	-535.7	-0.0284 mg/L	0.00126	-0.0284 mg/L	0.00126	4.46%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	1625.7	-0.0024 mg/L	0.00009	-0.0024 mg/L	0.00009	3.65%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	76.2	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	20.41%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	1606646.5	231.1 mg/L	1.05	231.1 mg/L	1.05	0.45%
QC value within limits for Ca 317.933	Recovery = 92.44%					
Cd 228.802†	-137.6	0.0007 mg/L	0.00005	0.0007 mg/L	0.00005	7.72%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-37.4	-0.0004 mg/L	0.00006	-0.0004 mg/L	0.00006	15.90%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	281.2	0.0022 mg/L	0.00005	0.0022 mg/L	0.00005	2.43%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-76.7	-0.0004 mg/L	0.00012	-0.0004 mg/L	0.00012	27.73%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	215127.5	90.56 mg/L	0.457	90.56 mg/L	0.457	0.51%
QC value within limits for Fe 238.204	Recovery = 90.56%					
K 766.490†	594.5	0.1796 mg/L	0.00538	0.1796 mg/L	0.00538	3.00%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1894262.9	220.4 mg/L	1.24	220.4 mg/L	1.24	0.56%
QC value within limits for Mg 285.213	Recovery = 88.17%					
Mn 257.610†	-85.0	0.0037 mg/L	0.00027	0.0037 mg/L	0.00027	7.29%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	-105.9	-0.0042 mg/L	0.00037	-0.0042 mg/L	0.00037	8.70%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	24339.6	2.002 mg/L	0.0183	2.002 mg/L	0.0183	0.92%
QC value greater than the upper limit for Na 589.592	Recovery = Not calculated					
Ni 231.604†	241.4	0.0061 mg/L	0.00026	0.0061 mg/L	0.00026	4.34%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-306.7	0.0037 mg/L	0.00093	0.0037 mg/L	0.00093	24.99%
QC value within limits for Pb 220.353	Recovery = Not calculated					

Sb 206.836†	36.1	0.0095 mg/L	0.00135	0.0095 mg/L	0.00135	14.18%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	71.9	-0.0289 mg/L	0.00342	-0.0289 mg/L	0.00342	11.86%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-550.2	-0.0639 mg/L	0.00061	-0.0639 mg/L	0.00061	0.96%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	11.8	0.0006 mg/L	0.00034	0.0006 mg/L	0.00034	55.19%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-707.9	-0.0008 mg/L	0.00055	-0.0008 mg/L	0.00055	68.19%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	2281.8	0.0037 mg/L	0.00051	0.0037 mg/L	0.00051	13.81%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	285.5	-0.0025 mg/L	0.00006	-0.0025 mg/L	0.00006	2.47%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	1144.2	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.85%
QC Failed. Continue with analysis.						

Sequence No.: 27

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/17/2024 12:52:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5042371.8	91.77 %	1.428			1.56%
Y radial	198867.8	103.5 %	0.87			0.84%
Ag 328.068†	116616.4	0.3986 mg/L	0.00359	0.3986 mg/L	0.00359	0.90%
QC value within limits for Ag 328.068	Recovery = 99.65%					
Al 396.153†	972458.4	251.6 mg/L	1.67	251.6 mg/L	1.67	0.66%
QC value within limits for Al 396.153	Recovery = 100.64%					
As 188.979†	539.3	0.1890 mg/L	0.00134	0.1890 mg/L	0.00134	0.71%
QC value within limits for As 188.979	Recovery = 94.49%					
B 208.889†	-779.7	-0.0413 mg/L	0.00150	-0.0413 mg/L	0.00150	3.62%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	161450.3	0.9427 mg/L	0.01033	0.9427 mg/L	0.01033	1.10%
QC value within limits for Ba 233.527	Recovery = 94.27%					
Be 313.107†	429025.5	0.9672 mg/L	0.00504	0.9672 mg/L	0.00504	0.52%
QC value within limits for Be 313.107	Recovery = 96.72%					
Ca 317.933†	1605757.9	231.0 mg/L	1.68	231.0 mg/L	1.68	0.73%
QC value within limits for Ca 317.933	Recovery = 92.39%					
Cd 228.802†	219793.1	1.932 mg/L	0.0225	1.932 mg/L	0.0225	1.17%
QC value within limits for Cd 228.802	Recovery = 96.58%					
Co 228.616†	87860.8	0.8680 mg/L	0.00973	0.8680 mg/L	0.00973	1.12%
QC value within limits for Co 228.616	Recovery = 86.80%					
Cr 267.716†	119516.4	0.9148 mg/L	0.01084	0.9148 mg/L	0.01084	1.18%
QC value within limits for Cr 267.716	Recovery = 91.48%					
Cu 327.393†	171915.1	0.9666 mg/L	0.00752	0.9666 mg/L	0.00752	0.78%
QC value within limits for Cu 327.393	Recovery = 96.66%					
Fe 238.204†	215385.5	90.68 mg/L	0.619	90.68 mg/L	0.619	0.68%
QC value within limits for Fe 238.204	Recovery = 90.68%					
K 766.490†	428.8	0.1295 mg/L	0.00628	0.1295 mg/L	0.00628	4.85%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1893619.3	220.4 mg/L	1.24	220.4 mg/L	1.24	0.56%
QC value within limits for Mg 285.213	Recovery = 88.15%					
Mn 257.610†	22418.3	0.9042 mg/L	0.00697	0.9042 mg/L	0.00697	0.77%
QC value within limits for Mn 257.610	Recovery = 90.42%					
Mo 202.031†	-124.8	-0.0050 mg/L	0.00054	-0.0050 mg/L	0.00054	10.79%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	19990.8	1.644 mg/L	0.0156	1.644 mg/L	0.0156	0.95%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	68629.7	1.722 mg/L	0.0203	1.722 mg/L	0.0203	1.18%
QC value within limits for Ni 231.604	Recovery = 86.12%					
Pb 220.353†	818.7	0.0933 mg/L	0.00107	0.0933 mg/L	0.00107	1.15%
QC value within limits for Pb 220.353	Recovery = 93.27%					
Sb 206.836†	6924.5	1.078 mg/L	0.0172	1.078 mg/L	0.0172	1.59%

QC value within limits for Sb 206.836 Recovery = 89.85%
 Se 196.026† 1057.0 0.4606 mg/L 0.01283 0.4606 mg/L 0.01283 2.78%
 QC value within limits for Se 196.026 Recovery = 92.12%
 Sn 189.927† -552.5 -0.0642 mg/L 0.00140 -0.0642 mg/L 0.00140 2.19%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 10.9 0.0006 mg/L 0.00028 0.0006 mg/L 0.00028 48.69%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 1738.6 0.2013 mg/L 0.00366 0.2013 mg/L 0.00366 1.82%
 QC value within limits for Tl 351.924 Recovery = 100.64%
 V 290.880† 209909.3 0.9380 mg/L 0.01096 0.9380 mg/L 0.01096 1.17%
 QC value within limits for V 290.880 Recovery = 93.80%
 Zn 206.200† 126652.1 1.755 mg/L 0.0238 1.755 mg/L 0.0238 1.35%
 QC value within limits for Zn 206.200 Recovery = 87.75%
 Zr 343.823† 1249.4 0.0006 mg/L 0.00012 0.0006 mg/L 0.00012 19.12%
 All analyte(s) passed QC.

Sequence No.: 28

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 12:58:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5348314.8	97.34 %	0.305			0.31%
Y radial	205791.9	107.1 %	0.93			0.87%
Ag 328.068†	714834.5	2.386 mg/L	0.0110	2.386 mg/L	0.0110	0.46%
QC value within limits for Ag 328.068			Recovery = 95.46%			
Al 396.153†	37328.9	9.400 mg/L	0.1930	9.400 mg/L	0.1930	2.05%
QC value within limits for Al 396.153			Recovery = 94.00%			
As 188.979†	16005.0	4.785 mg/L	0.0270	4.785 mg/L	0.0270	0.56%
QC value within limits for As 188.979			Recovery = 95.70%			
B 208.889†	90069.4	4.563 mg/L	0.0071	4.563 mg/L	0.0071	0.15%
QC value within limits for B 208.889			Recovery = 91.25%			
Ba 233.527†	819212.4	4.846 mg/L	0.0054	4.846 mg/L	0.0054	0.11%
QC value within limits for Ba 233.527			Recovery = 96.91%			
Be 313.107†	2140988.8	4.827 mg/L	0.0182	4.827 mg/L	0.0182	0.38%
QC value within limits for Be 313.107			Recovery = 96.53%			
Ca 317.933†	64796.8	9.320 mg/L	0.1338	9.320 mg/L	0.1338	1.44%
QC value within limits for Ca 317.933			Recovery = 93.20%			
Cd 228.802†	554790.2	4.784 mg/L	0.0050	4.784 mg/L	0.0050	0.10%
QC value within limits for Cd 228.802			Recovery = 95.68%			
Co 228.616†	488139.2	4.830 mg/L	0.0031	4.830 mg/L	0.0031	0.06%
QC value within limits for Co 228.616			Recovery = 96.60%			
Cr 267.716†	630286.6	4.823 mg/L	0.0114	4.823 mg/L	0.0114	0.24%
QC value within limits for Cr 267.716			Recovery = 96.47%			
Cu 327.393†	852335.1	4.810 mg/L	0.0149	4.810 mg/L	0.0149	0.31%
QC value within limits for Cu 327.393			Recovery = 96.19%			
Fe 238.204†	10995.8	4.654 mg/L	0.0753	4.654 mg/L	0.0753	1.62%
QC value within limits for Fe 238.204			Recovery = 93.09%			
K 766.490†	31330.0	9.464 mg/L	0.1681	9.464 mg/L	0.1681	1.78%
QC value within limits for K 766.490			Recovery = 94.64%			
Mg 285.213†	81430.6	9.452 mg/L	0.1633	9.452 mg/L	0.1633	1.73%
QC value within limits for Mg 285.213			Recovery = 94.52%			
Mn 257.610†	117122.0	4.687 mg/L	0.0740	4.687 mg/L	0.0740	1.58%
QC value within limits for Mn 257.610			Recovery = 93.75%			
Mo 202.031†	121410.3	4.822 mg/L	0.0054	4.822 mg/L	0.0054	0.11%
QC value within limits for Mo 202.031			Recovery = 96.44%			
Na 589.592†	126289.6	10.39 mg/L	0.045	10.39 mg/L	0.045	0.44%
QC value within limits for Na 589.592			Recovery = 103.86%			
Ni 231.604†	192787.4	4.837 mg/L	0.0102	4.837 mg/L	0.0102	0.21%
QC value within limits for Ni 231.604			Recovery = 96.74%			
Pb 220.353†	60294.2	4.848 mg/L	0.0229	4.848 mg/L	0.0229	0.47%
QC value within limits for Pb 220.353			Recovery = 96.96%			
Sb 206.836†	30707.9	4.794 mg/L	0.0188	4.794 mg/L	0.0188	0.39%
QC value within limits for Sb 206.836			Recovery = 95.89%			

Se 196.026†	9722.2	4.833 mg/L	0.0237	4.833 mg/L	0.0237	0.49%
QC value within limits for Se 196.026 Recovery = 96.66%						
Sn 189.927†	41626.4	4.832 mg/L	0.0293	4.832 mg/L	0.0293	0.61%
QC value within limits for Sn 189.927 Recovery = 96.65%						
Ti 337.279†	90250.1	4.760 mg/L	0.0863	4.760 mg/L	0.0863	1.81%
QC value within limits for Ti 337.279 Recovery = 95.21%						
Tl 351.924†	28585.9	2.367 mg/L	0.0209	2.367 mg/L	0.0209	0.88%
QC value within limits for Tl 351.924 Recovery = 94.69%						
V 290.880†	1071043.0	4.820 mg/L	0.0044	4.820 mg/L	0.0044	0.09%
QC value within limits for V 290.880 Recovery = 96.39%						
Zn 206.200†	349379.2	4.869 mg/L	0.0069	4.869 mg/L	0.0069	0.14%
QC value within limits for Zn 206.200 Recovery = 97.38%						
Zr 343.823†	2180871.0	4.844 mg/L	0.0080	4.844 mg/L	0.0080	0.17%
All analyte(s) passed QC.						

Sequence No.: 29

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 1:03:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5571443.2	101.4 %		0.83			0.82%
Y radial	206376.4	107.4 %		1.75			1.63%
Ag 328.068†	654.2	0.0022 mg/L		0.00021	0.0022 mg/L	0.00021	9.42%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153†	1.6	0.0004 mg/L		0.00666	0.0004 mg/L	0.00666	>999.9%
QC value within limits for Al 396.153 Recovery = Not calculated							
As 188.979†	3.3	0.0010 mg/L		0.00188	0.0010 mg/L	0.00188	185.55%
QC value within limits for As 188.979 Recovery = Not calculated							
B 208.889†	-1073.3	-0.0573 mg/L		0.00089	-0.0573 mg/L	0.00089	1.56%
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	14.7	0.0001 mg/L		0.00008	0.0001 mg/L	0.00008	90.28%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	52.3	0.0001 mg/L		0.00006	0.0001 mg/L	0.00006	57.42%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933†	16.5	0.0024 mg/L		0.00295	0.0024 mg/L	0.00295	124.34%
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 228.802†	13.5	0.0001 mg/L		0.00001	0.0001 mg/L	0.00001	5.38%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	27.9	0.0003 mg/L		0.00001	0.0003 mg/L	0.00001	3.98%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-2.9	-0.0000 mg/L		0.00008	-0.0000 mg/L	0.00008	395.56%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	-167.2	-0.0009 mg/L		0.00030	-0.0009 mg/L	0.00030	32.20%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	3.9	0.0016 mg/L		0.00023	0.0016 mg/L	0.00023	13.81%
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	348.5	0.1053 mg/L		0.00618	0.1053 mg/L	0.00618	5.88%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	22.5	0.0026 mg/L		0.00073	0.0026 mg/L	0.00073	27.71%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	1.4	0.0001 mg/L		0.00023	0.0001 mg/L	0.00023	426.12%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	25.4	0.0010 mg/L		0.00011	0.0010 mg/L	0.00011	10.53%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	10455.2	0.8598 mg/L		0.01794	0.8598 mg/L	0.01794	2.09%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-12.3	-0.0003 mg/L		0.00018	-0.0003 mg/L	0.00018	58.45%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	2.1	0.0002 mg/L		0.00018	0.0002 mg/L	0.00018	103.17%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	5.7	0.0009 mg/L		0.00072	0.0009 mg/L	0.00072	79.19%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.5	0.0022 mg/L		0.00228	0.0022 mg/L	0.00228	102.62%

QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 5.0 0.0006 mg/L 0.00035 0.0006 mg/L 0.00035 60.01%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 2.7 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 63.84%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -24.5 -0.0021 mg/L 0.00358 -0.0021 mg/L 0.00358 172.77%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 479.0 0.0022 mg/L 0.00002 0.0022 mg/L 0.00002 0.78%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 44.8 0.0005 mg/L 0.00009 0.0005 mg/L 0.00009 17.45%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -95.7 -0.0002 mg/L 0.00012 -0.0002 mg/L 0.00012 55.12%
 All analyte(s) passed QC.

Sequence No.: 30

Sample ID: B371656-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 49

Date Collected: 4/17/2024 1:09:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4668382.3	84.96 %		0.293			0.35%
Y radial	195493.5	101.7 %		0.30			0.29%
Ag 328.068†	562.4	0.0019 mg/L		0.00009	0.0019 mg/L	0.00009	4.84%
Al 396.153†	705.2	0.1824 mg/L		0.00386	0.1824 mg/L	0.00386	2.12%
As 188.979†	-46.5	-0.0140 mg/L		0.00186	-0.0140 mg/L	0.00186	13.33%
B 208.889†	4205.2	0.2243 mg/L		0.00130	0.2243 mg/L	0.00130	0.58%
Ba 233.527†	745.6	0.0044 mg/L		0.00006	0.0044 mg/L	0.00006	1.35%
Be 313.107†	15.1	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	107.48%
Ca 317.933†	7468.8	1.074 mg/L		0.0119	1.074 mg/L	0.0119	1.11%
Cd 228.802†	32.8	0.0006 mg/L		0.00012	0.0006 mg/L	0.00012	20.49%
Co 228.616†	36.9	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	16.55%
Cr 267.716†	113.8	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	12.19%
Cu 327.393†	5196.8	0.0292 mg/L		0.00072	0.0292 mg/L	0.00072	2.45%
Fe 238.204†	79.8	0.0336 mg/L		0.00116	0.0336 mg/L	0.00116	3.46%
K 766.490†	4736.7	1.431 mg/L		0.0286	1.431 mg/L	0.0286	2.00%
Mg 285.213†	3037.7	0.3532 mg/L		0.00103	0.3532 mg/L	0.00103	0.29%
Mn 257.610†	74.2	0.0030 mg/L		0.00004	0.0030 mg/L	0.00004	1.32%
Mo 202.031†	11.6	0.0005 mg/L		0.00008	0.0005 mg/L	0.00008	17.51%
Na 589.592†	Saturated2						
Ni 231.604†	181.6	0.0046 mg/L		0.00008	0.0046 mg/L	0.00008	1.66%
Pb 220.353†	3.2	0.0002 mg/L		0.00042	0.0002 mg/L	0.00042	187.68%
Sb 206.836†	38.5	0.0061 mg/L		0.00095	0.0061 mg/L	0.00095	15.62%
Se 196.026†	26.1	0.0128 mg/L		0.00152	0.0128 mg/L	0.00152	11.91%
Sn 189.927†	11.2	0.0013 mg/L		0.00012	0.0013 mg/L	0.00012	9.52%
Ti 337.279†	51.7	0.0027 mg/L		0.00030	0.0027 mg/L	0.00030	11.01%
Tl 351.924†	-3.5	-0.0003 mg/L		0.00470	-0.0003 mg/L	0.00470	>999.9%
V 290.880†	2177.0	0.0098 mg/L		0.00010	0.0098 mg/L	0.00010	1.05%
Zn 206.200†	551.4	0.0076 mg/L		0.00053	0.0076 mg/L	0.00053	6.97%
Zr 343.823†	262.9	0.0006 mg/L		0.00009	0.0006 mg/L	0.00009	16.04%

Sequence No.: 31

Sample ID: B371656-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 50

Date Collected: 4/17/2024 1:16:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4688044.6	85.32 %		1.350			1.58%
Y radial	194876.0	101.4 %		0.79			0.78%

Ag 328.068†	161682.1	0.5466 mg/L	0.01110	0.5466 mg/L	0.01110	2.03%
Al 396.153†	2684.7	0.6751 mg/L	0.00383	0.6751 mg/L	0.00383	0.57%
As 188.979†	1724.9	0.5165 mg/L	0.00914	0.5165 mg/L	0.00914	1.77%
B 208.889†	22377.5	1.169 mg/L	0.0247	1.169 mg/L	0.0247	2.12%
Ba 233.527†	84718.6	0.5007 mg/L	0.00955	0.5007 mg/L	0.00955	1.91%
Be 313.107†	212227.1	0.4783 mg/L	0.00543	0.4783 mg/L	0.00543	1.13%
Ca 317.933†	33714.2	4.850 mg/L	0.0337	4.850 mg/L	0.0337	0.70%
Cd 228.802†	61932.1	0.5342 mg/L	0.01005	0.5342 mg/L	0.01005	1.88%
Co 228.616†	47715.5	0.4722 mg/L	0.00833	0.4722 mg/L	0.00833	1.76%
Cr 267.716†	64021.7	0.4899 mg/L	0.00864	0.4899 mg/L	0.00864	1.76%
Cu 327.393†	189477.5	1.065 mg/L	0.0228	1.065 mg/L	0.0228	2.14%
Fe 238.204†	8939.2	3.765 mg/L	0.0225	3.765 mg/L	0.0225	0.60%
K 766.490†	19320.2	5.836 mg/L	0.0544	5.836 mg/L	0.0544	0.93%
Mg 285.213†	36223.7	4.217 mg/L	0.0370	4.217 mg/L	0.0370	0.88%
Mn 257.610†	11607.6	0.4648 mg/L	0.00363	0.4648 mg/L	0.00363	0.78%
Mo 202.031†	12381.9	0.4918 mg/L	0.00932	0.4918 mg/L	0.00932	1.90%
Na 589.592†	Saturated2					
Ni 231.604†	18887.4	0.4737 mg/L	0.00898	0.4737 mg/L	0.00898	1.90%
Pb 220.353†	5922.8	0.4748 mg/L	0.00890	0.4748 mg/L	0.00890	1.87%
Sb 206.836†	3319.2	0.5182 mg/L	0.01044	0.5182 mg/L	0.01044	2.01%
Se 196.026†	1177.3	0.5840 mg/L	0.01099	0.5840 mg/L	0.01099	1.88%
Sn 189.927†	3994.8	0.4642 mg/L	0.00843	0.4642 mg/L	0.00843	1.82%
Ti 337.279†	9291.6	0.4904 mg/L	0.00499	0.4904 mg/L	0.00499	1.02%
Tl 351.924†	6425.2	0.5397 mg/L	0.01236	0.5397 mg/L	0.01236	2.29%
V 290.880†	112480.0	0.5059 mg/L	0.01019	0.5059 mg/L	0.01019	2.02%
Zn 206.200†	75617.4	1.049 mg/L	0.0157	1.049 mg/L	0.0157	1.49%
Zr 343.823†	1708.9	0.0037 mg/L	0.00076	0.0037 mg/L	0.00076	20.64%

Sequence No.: 32

Sample ID: B371656-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 51

Date Collected: 4/17/2024 1:23:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4634315.5	84.34	%	1.062				1.26%
Y radial	197358.9	102.7	%	1.02				1.00%
Ag 328.068†	162829.9	0.5504	mg/L	0.00146	0.5504	mg/L	0.00146	0.27%
Al 396.153†	2654.6	0.6672	mg/L	0.00166	0.6672	mg/L	0.00166	0.25%
As 188.979†	1747.1	0.5231	mg/L	0.00560	0.5231	mg/L	0.00560	1.07%
B 208.889†	22507.5	1.176	mg/L	0.0060	1.176	mg/L	0.0060	0.51%
Ba 233.527†	84880.1	0.5016	mg/L	0.00027	0.5016	mg/L	0.00027	0.05%
Be 313.107†	211332.4	0.4763	mg/L	0.01261	0.4763	mg/L	0.01261	2.65%
Ca 317.933†	33409.3	4.806	mg/L	0.0413	4.806	mg/L	0.0413	0.86%
Cd 228.802†	62163.5	0.5361	mg/L	0.00111	0.5361	mg/L	0.00111	0.21%
Co 228.616†	47720.9	0.4722	mg/L	0.00029	0.4722	mg/L	0.00029	0.06%
Cr 267.716†	64008.5	0.4898	mg/L	0.00139	0.4898	mg/L	0.00139	0.28%
Cu 327.393†	191450.8	1.076	mg/L	0.0053	1.076	mg/L	0.0053	0.49%
Fe 238.204†	8886.4	3.743	mg/L	0.0238	3.743	mg/L	0.0238	0.63%
K 766.490†	18529.8	5.597	mg/L	0.0367	5.597	mg/L	0.0367	0.66%
Mg 285.213†	35948.6	4.185	mg/L	0.0206	4.185	mg/L	0.0206	0.49%
Mn 257.610†	11537.0	0.4620	mg/L	0.00167	0.4620	mg/L	0.00167	0.36%
Mo 202.031†	12477.3	0.4956	mg/L	0.00558	0.4956	mg/L	0.00558	1.13%
Na 589.592†	Saturated2							
Ni 231.604†	18880.2	0.4735	mg/L	0.00242	0.4735	mg/L	0.00242	0.51%
Pb 220.353†	5956.9	0.4776	mg/L	0.00656	0.4776	mg/L	0.00656	1.37%
Sb 206.836†	3346.1	0.5224	mg/L	0.00724	0.5224	mg/L	0.00724	1.39%
Se 196.026†	1199.5	0.5951	mg/L	0.00303	0.5951	mg/L	0.00303	0.51%
Sn 189.927†	4038.7	0.4693	mg/L	0.00519	0.4693	mg/L	0.00519	1.10%
Ti 337.279†	9212.3	0.4862	mg/L	0.00314	0.4862	mg/L	0.00314	0.64%
Tl 351.924†	6586.2	0.5533	mg/L	0.00413	0.5533	mg/L	0.00413	0.75%
V 290.880†	113034.6	0.5084	mg/L	0.00091	0.5084	mg/L	0.00091	0.18%
Zn 206.200†	75229.5	1.044	mg/L	0.0011	1.044	mg/L	0.0011	0.11%
Zr 343.823†	915.6	0.0019	mg/L	0.00019	0.0019	mg/L	0.00019	9.70%

Sequence No.: 33
 Sample ID: B371656-MS1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 52
 Date Collected: 4/17/2024 1:30:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371656-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4536053.5	82.55 %		0.801			0.97%
Y radial	191257.8	99.54 %		0.766			0.77%
Ag 328.068†	164349.1	0.5555 mg/L		0.00207	0.5555 mg/L	0.00207	0.37%
Al 396.153†	9584.1	2.460 mg/L		0.0391	2.460 mg/L	0.0391	1.59%
As 188.979†	1685.5	0.5051 mg/L		0.00762	0.5051 mg/L	0.00762	1.51%
B 208.889†	19003.7	0.9897 mg/L		0.00469	0.9897 mg/L	0.00469	0.47%
Ba 233.527†	103973.6	0.6143 mg/L		0.00263	0.6143 mg/L	0.00263	0.43%
Be 313.107†	206824.7	0.4661 mg/L		0.00295	0.4661 mg/L	0.00295	0.63%
Ca 317.933†	58896.2	8.472 mg/L		0.1317	8.472 mg/L	0.1317	1.55%
Cd 228.802†	60538.1	0.5222 mg/L		0.00152	0.5222 mg/L	0.00152	0.29%
Co 228.616†	46629.5	0.4614 mg/L		0.00253	0.4614 mg/L	0.00253	0.55%
Cr 267.716†	63804.2	0.4882 mg/L		0.00176	0.4882 mg/L	0.00176	0.36%
Cu 327.393†	193068.5	1.086 mg/L		0.0068	1.086 mg/L	0.0068	0.63%
Fe 238.204†	9343.1	3.935 mg/L		0.0686	3.935 mg/L	0.0686	1.74%
K 766.490†	39836.7	12.03 mg/L		0.137	12.03 mg/L	0.137	1.14%
Mg 285.213†	1822660.5	212.1 mg/L		1.12	212.1 mg/L	1.12	0.53%
Mn 257.610†	13794.1	0.5523 mg/L		0.00686	0.5523 mg/L	0.00686	1.24%
Mo 202.031†	12074.1	0.4795 mg/L		0.00594	0.4795 mg/L	0.00594	1.24%
Na 589.592†	Saturated2						
Ni 231.604†	18746.4	0.4701 mg/L		0.00127	0.4701 mg/L	0.00127	0.27%
Pb 220.353†	5635.6	0.4519 mg/L		0.00612	0.4519 mg/L	0.00612	1.35%
Sb 206.836†	3281.0	0.5119 mg/L		0.00536	0.5119 mg/L	0.00536	1.05%
Se 196.026†	1222.2	0.5646 mg/L		0.00450	0.5646 mg/L	0.00450	0.80%
Sn 189.927†	3742.5	0.4349 mg/L		0.00670	0.4349 mg/L	0.00670	1.54%
Ti 337.279†	9468.3	0.4997 mg/L		0.00679	0.4997 mg/L	0.00679	1.36%
Tl 351.924†	6634.9	0.5575 mg/L		0.00238	0.5575 mg/L	0.00238	0.43%
V 290.880†	111148.3	0.4999 mg/L		0.00244	0.4999 mg/L	0.00244	0.49%
Zn 206.200†	120287.4	1.668 mg/L		0.0096	1.668 mg/L	0.0096	0.57%
Zr 343.823†	3685.9	0.0081 mg/L		0.00010	0.0081 mg/L	0.00010	1.23%

Sequence No.: 34
 Sample ID: B371656-PS1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 53
 Date Collected: 4/17/2024 1:36:50 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371656-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4465788.5	81.28 %		0.369			0.45%
Y radial	183110.2	95.30 %		1.806			1.89%
Ag 328.068†	646855.1	2.186 mg/L		0.0148	2.186 mg/L	0.0148	0.68%
Al 396.153†	15349.1	3.896 mg/L		0.0218	3.896 mg/L	0.0218	0.56%
As 188.979†	6773.9	2.029 mg/L		0.0058	2.029 mg/L	0.0058	0.29%
B 208.889†	72785.0	3.787 mg/L		0.0279	3.787 mg/L	0.0279	0.74%
Ba 233.527†	346162.5	2.046 mg/L		0.0103	2.046 mg/L	0.0103	0.51%
Be 313.107†	833574.0	1.879 mg/L		0.0231	1.879 mg/L	0.0231	1.23%
Ca 317.933†	135826.5	19.54 mg/L		0.164	19.54 mg/L	0.164	0.84%
Cd 228.802†	237372.5	2.046 mg/L		0.0106	2.046 mg/L	0.0106	0.52%
Co 228.616†	182979.0	1.811 mg/L		0.0073	1.811 mg/L	0.0073	0.41%
Cr 267.716†	249953.2	1.912 mg/L		0.0075	1.912 mg/L	0.0075	0.39%
Cu 327.393†	737889.7	4.149 mg/L		0.0339	4.149 mg/L	0.0339	0.82%
Fe 238.204†	35085.5	14.78 mg/L		0.112	14.78 mg/L	0.112	0.76%
K 766.490†	86090.5	26.00 mg/L		0.235	26.00 mg/L	0.235	0.90%
Mg 285.213†	1882736.4	219.1 mg/L		2.93	219.1 mg/L	2.93	1.34%

Mn 257.610†	47758.7	1.912 mg/L	0.0162	1.912 mg/L	0.0162	0.85%
Mo 202.031†	47897.3	1.902 mg/L	0.0078	1.902 mg/L	0.0078	0.41%
Na 589.592†	Saturated2					
Ni 231.604†	71885.9	1.803 mg/L	0.0093	1.803 mg/L	0.0093	0.52%
Pb 220.353†	22239.4	1.783 mg/L	0.0058	1.783 mg/L	0.0058	0.33%
Sb 206.836†	12860.5	2.007 mg/L	0.0073	2.007 mg/L	0.0073	0.36%
Se 196.026†	4554.6	2.219 mg/L	0.0114	2.219 mg/L	0.0114	0.51%
Sn 189.927†	15382.3	1.787 mg/L	0.0062	1.787 mg/L	0.0062	0.34%
Ti 337.279†	36724.4	1.938 mg/L	0.0141	1.938 mg/L	0.0141	0.73%
Tl 351.924†	26078.9	2.191 mg/L	0.0097	2.191 mg/L	0.0097	0.44%
V 290.880†	435026.4	1.957 mg/L	0.0096	1.957 mg/L	0.0096	0.49%
Zn 206.200†	325339.0	4.513 mg/L	0.0177	4.513 mg/L	0.0177	0.39%
Zr 343.823†	4488.2	0.0096 mg/L	0.00048	0.0096 mg/L	0.00048	5.02%

Sequence No.: 35

Sample ID: B371656-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 54

Date Collected: 4/17/2024 1:43:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371656-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5104067.4	92.89 %		0.498			0.54%
Y radial	199490.4	103.8 %		1.60			1.54%
Ag 328.068†	434.5	0.0015 mg/L		0.00014	0.0015 mg/L	0.00014	9.38%
Al 396.153†	1448.5	0.3747 mg/L		0.00933	0.3747 mg/L	0.00933	2.49%
As 188.979†	2.3	0.0008 mg/L		0.00060	0.0008 mg/L	0.00060	78.63%
B 208.889†	-1012.9	-0.0540 mg/L		0.00053	-0.0540 mg/L	0.00053	0.98%
Ba 233.527†	4046.2	0.0239 mg/L		0.00007	0.0239 mg/L	0.00007	0.28%
Be 313.107†	-26.3	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	50.70%
Ca 317.933†	6588.8	0.9477 mg/L		0.01542	0.9477 mg/L	0.01542	1.63%
Cd 228.802†	14.6	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	31.35%
Co 228.616†	38.6	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	16.53%
Cr 267.716†	73.0	0.0006 mg/L		0.00003	0.0006 mg/L	0.00003	5.80%
Cu 327.393†	943.2	0.0053 mg/L		0.00028	0.0053 mg/L	0.00028	5.20%
Fe 238.204†	123.5	0.0520 mg/L		0.00058	0.0520 mg/L	0.00058	1.11%
K 766.490†	4292.6	1.297 mg/L		0.0283	1.297 mg/L	0.0283	2.18%
Mg 285.213†	382027.8	44.46 mg/L		0.681	44.46 mg/L	0.681	1.53%
Mn 257.610†	453.4	0.0181 mg/L		0.00046	0.0181 mg/L	0.00046	2.55%
Mo 202.031†	0.3	0.0000 mg/L		0.00021	0.0000 mg/L	0.00021	>999.9%
Na 589.592†	2746737.5	225.9 mg/L		3.58	225.9 mg/L	3.58	1.59%
Ni 231.604†	160.7	0.0040 mg/L		0.00011	0.0040 mg/L	0.00011	2.61%
Pb 220.353†	6.9	0.0006 mg/L		0.00011	0.0006 mg/L	0.00011	18.15%
Sb 206.836†	5.2	0.0007 mg/L		0.00083	0.0007 mg/L	0.00083	113.63%
Se 196.026†	34.5	0.0082 mg/L		0.00128	0.0082 mg/L	0.00128	15.62%
Sn 189.927†	-95.2	-0.0111 mg/L		0.00024	-0.0111 mg/L	0.00024	2.14%
Ti 337.279†	40.3	0.0021 mg/L		0.00035	0.0021 mg/L	0.00035	16.31%
Tl 351.924†	51.5	0.0044 mg/L		0.00504	0.0044 mg/L	0.00504	115.75%
V 290.880†	508.7	0.0023 mg/L		0.00039	0.0023 mg/L	0.00039	16.98%
Zn 206.200†	9911.1	0.1182 mg/L		0.00060	0.1182 mg/L	0.00060	0.51%
Zr 343.823†	457.2	0.0010 mg/L		0.00012	0.0010 mg/L	0.00012	11.53%

Sequence No.: 36

Sample ID: 24D1628-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 55

Date Collected: 4/17/2024 1:49:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1628-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4406266.4	80.19 %		1.425			1.78%
Y radial	184427.1	95.99 %		1.458			1.52%

Ag 328.068†	473.7	0.0016 mg/L	0.00032	0.0016 mg/L	0.00032	20.34%
Al 396.153†	7504.1	1.941 mg/L	0.0158	1.941 mg/L	0.0158	0.81%
As 188.979†	-39.6	-0.0116 mg/L	0.00100	-0.0116 mg/L	0.00100	8.56%
B 208.889†	294.4	0.0157 mg/L	0.00277	0.0157 mg/L	0.00277	17.61%
Ba 233.527†	21163.6	0.1249 mg/L	0.00211	0.1249 mg/L	0.00211	1.69%
Be 313.107†	174.0	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	19.34%
Ca 317.933†	33296.4	4.789 mg/L	0.0099	4.789 mg/L	0.0099	0.21%
Cd 228.802†	56.0	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	7.69%
Co 228.616†	140.8	0.0014 mg/L	0.00006	0.0014 mg/L	0.00006	4.57%
Cr 267.716†	484.1	0.0037 mg/L	0.00011	0.0037 mg/L	0.00011	3.05%
Cu 327.393†	7841.8	0.0441 mg/L	0.01381	0.0441 mg/L	0.01381	31.31%
Fe 238.204†	574.4	0.2418 mg/L	0.00443	0.2418 mg/L	0.00443	1.83%
K 766.490†	25000.5	7.552 mg/L	0.0664	7.552 mg/L	0.0664	0.88%
Mg 285.213†	1812487.1	210.9 mg/L	3.90	210.9 mg/L	3.90	1.85%
Mn 257.610†	2292.0	0.0917 mg/L	0.00139	0.0917 mg/L	0.00139	1.51%
Mo 202.031†	-7.0	-0.0003 mg/L	0.00018	-0.0003 mg/L	0.00018	65.78%
Na 589.592†	Saturated2					
Ni 231.604†	892.4	0.0224 mg/L	0.00083	0.0224 mg/L	0.00083	3.71%
Pb 220.353†	9.1	0.0009 mg/L	0.00083	0.0009 mg/L	0.00083	95.02%
Sb 206.836†	17.8	0.0026 mg/L	0.00091	0.0026 mg/L	0.00091	34.91%
Se 196.026†	80.6	-0.0024 mg/L	0.00298	-0.0024 mg/L	0.00298	124.13%
Sn 189.927†	-183.6	-0.0213 mg/L	0.00181	-0.0213 mg/L	0.00181	8.46%
Ti 337.279†	227.1	0.0120 mg/L	0.00040	0.0120 mg/L	0.00040	3.31%
Tl 351.924†	77.1	0.0066 mg/L	0.00184	0.0066 mg/L	0.00184	28.07%
V 290.880†	2059.3	0.0093 mg/L	0.00110	0.0093 mg/L	0.00110	11.87%
Zn 206.200†	51644.8	0.7161 mg/L	0.01007	0.7161 mg/L	0.01007	1.41%
Zr 343.823†	3151.7	0.0070 mg/L	0.00015	0.0070 mg/L	0.00015	2.16%

Sequence No.: 37

Sample ID: 24D1491-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 56

Date Collected: 4/17/2024 1:56:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1491-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4208884.7	76.60	%	0.863				1.13%
Y radial	172940.3	90.01	%	0.465				0.52%
Ag 328.068†	-1206.4	-0.0039	mg/L	0.00026	-0.0039	mg/L	0.00026	6.79%
Al 396.153†	764.9	0.1978	mg/L	0.01256	0.1978	mg/L	0.01256	6.35%
As 188.979†	-78.4	-0.0079	mg/L	0.00127	-0.0079	mg/L	0.00127	16.16%
B 208.889†	1357.2	0.0723	mg/L	0.00228	0.0723	mg/L	0.00228	3.15%
Ba 233.527†	31759.7	0.1876	mg/L	0.00263	0.1876	mg/L	0.00263	1.40%
Be 313.107†	138.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	17.11%
Ca 317.933†	5204059.8	748.6	mg/L	2.11	748.6	mg/L	2.11	0.28%
Cd 228.802†	10.9	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	6.90%
Co 228.616†	195.9	0.0019	mg/L	0.00009	0.0019	mg/L	0.00009	4.64%
Cr 267.716†	9299.5	0.0711	mg/L	0.00066	0.0711	mg/L	0.00066	0.92%
Cu 327.393†	3506.0	0.0197	mg/L	0.00033	0.0197	mg/L	0.00033	1.66%
Fe 238.204†	282.0	0.1187	mg/L	0.00071	0.1187	mg/L	0.00071	0.60%
K 766.490†	57664.5	17.42	mg/L	0.133	17.42	mg/L	0.133	0.77%
Mg 285.213†	58838.2	6.628	mg/L	0.0365	6.628	mg/L	0.0365	0.55%
Mn 257.610†	108.0	0.0043	mg/L	0.00013	0.0043	mg/L	0.00013	3.09%
Mo 202.031†	75.9	0.0030	mg/L	0.00017	0.0030	mg/L	0.00017	5.47%
Na 589.592†	Saturated2							
Ni 231.604†	386.9	0.0097	mg/L	0.00018	0.0097	mg/L	0.00018	1.84%
Pb 220.353†	-57.5	-0.0046	mg/L	0.00027	-0.0046	mg/L	0.00027	5.84%
Sb 206.836†	94.7	0.0133	mg/L	0.00069	0.0133	mg/L	0.00069	5.19%
Se 196.026†	34.4	-0.0613	mg/L	0.00545	-0.0613	mg/L	0.00545	8.90%
Sn 189.927†	-532.9	-0.0619	mg/L	0.00137	-0.0619	mg/L	0.00137	2.22%
Ti 337.279†	251.8	0.0133	mg/L	0.00048	0.0133	mg/L	0.00048	3.61%
Tl 351.924†	150.3	0.0125	mg/L	0.00106	0.0125	mg/L	0.00106	8.49%
V 290.880†	10873.2	0.0489	mg/L	0.00117	0.0489	mg/L	0.00117	2.40%
Zn 206.200†	345.6	0.0054	mg/L	0.00003	0.0054	mg/L	0.00003	0.48%
Zr 343.823†	422.6	0.0009	mg/L	0.00001	0.0009	mg/L	0.00001	1.04%

Sequence No.: 38
 Sample ID: 24D1492-02
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 57
 Date Collected: 4/17/2024 2:04:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1492-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4125970.4	75.09 %		0.261			0.35%
Y radial	172120.6	89.58 %		0.873			0.97%
Ag 328.068†	-1332.3	-0.0046 mg/L		0.00041	-0.0046 mg/L	0.00041	8.83%
Al 396.153†	1888.8	0.4880 mg/L		0.00921	0.4880 mg/L	0.00921	1.89%
As 188.979†	-84.9	-0.0078 mg/L		0.00212	-0.0078 mg/L	0.00212	27.25%
B 208.889†	2079.7	0.1101 mg/L		0.00148	0.1101 mg/L	0.00148	1.34%
Ba 233.527†	48433.9	0.2860 mg/L		0.00189	0.2860 mg/L	0.00189	0.66%
Be 313.107†	164.0	0.0003 mg/L		0.00002	0.0003 mg/L	0.00002	8.60%
Ca 317.933†	5840948.3	840.2 mg/L		9.21	840.2 mg/L	9.21	1.10%
Cd 228.802†	40.6	0.0010 mg/L		0.00013	0.0010 mg/L	0.00013	12.88%
Co 228.616†	1194.5	0.0118 mg/L		0.00007	0.0118 mg/L	0.00007	0.60%
Cr 267.716†	6698.1	0.0509 mg/L		0.00025	0.0509 mg/L	0.00025	0.50%
Cu 327.393†	3139.3	0.0177 mg/L		0.00016	0.0177 mg/L	0.00016	0.89%
Fe 238.204†	521.2	0.2195 mg/L		0.00238	0.2195 mg/L	0.00238	1.08%
K 766.490†	61923.4	18.70 mg/L		0.180	18.70 mg/L	0.180	0.96%
Mg 285.213†	53369.4	5.965 mg/L		0.0779	5.965 mg/L	0.0779	1.31%
Mn 257.610†	20965.1	0.8390 mg/L		0.01231	0.8390 mg/L	0.01231	1.47%
Mo 202.031†	401.3	0.0159 mg/L		0.00030	0.0159 mg/L	0.00030	1.88%
Na 589.592†	Saturated2						
Ni 231.604†	1051.0	0.0264 mg/L		0.00028	0.0264 mg/L	0.00028	1.05%
Pb 220.353†	-98.3	-0.0079 mg/L		0.00147	-0.0079 mg/L	0.00147	18.54%
Sb 206.836†	114.9	0.0168 mg/L		0.00096	0.0168 mg/L	0.00096	5.71%
Se 196.026†	42.0	-0.0670 mg/L		0.00105	-0.0670 mg/L	0.00105	1.56%
Sn 189.927†	-559.4	-0.0650 mg/L		0.00071	-0.0650 mg/L	0.00071	1.09%
Ti 337.279†	431.3	0.0228 mg/L		0.00076	0.0228 mg/L	0.00076	3.35%
Tl 351.924†	145.8	0.0122 mg/L		0.00170	0.0122 mg/L	0.00170	13.92%
V 290.880†	5179.2	0.0233 mg/L		0.00081	0.0233 mg/L	0.00081	3.47%
Zn 206.200†	13105.6	0.1822 mg/L		0.00074	0.1822 mg/L	0.00074	0.41%
Zr 343.823†	843.6	0.0019 mg/L		0.00005	0.0019 mg/L	0.00005	2.43%

Sequence No.: 39
 Sample ID: 24D1592-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 230

Autosampler Location: 58
 Date Collected: 4/17/2024 2:12:02 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1592-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4175043.4	75.98 %		1.010			1.33%
Y radial	172816.7	89.94 %		1.203			1.34%
Ag 328.068†	-1466.5	-0.0049 mg/L		0.00018	-0.0049 mg/L	0.00018	3.70%
Al 396.153†	482.0	0.1247 mg/L		0.00976	0.1247 mg/L	0.00976	7.82%
As 188.979†	-96.7	-0.0090 mg/L		0.00097	-0.0090 mg/L	0.00097	10.78%
B 208.889†	2930.3	0.1564 mg/L		0.00365	0.1564 mg/L	0.00365	2.33%
Ba 233.527†	42161.3	0.2490 mg/L		0.00184	0.2490 mg/L	0.00184	0.74%
Be 313.107†	92.9	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	13.12%
Ca 317.933†	6600587.7	949.4 mg/L		16.54	949.4 mg/L	16.54	1.74%
Cd 228.802†	13.8	0.0008 mg/L		0.00006	0.0008 mg/L	0.00006	7.76%
Co 228.616†	320.3	0.0032 mg/L		0.00006	0.0032 mg/L	0.00006	1.79%
Cr 267.716†	1686.4	0.0128 mg/L		0.00010	0.0128 mg/L	0.00010	0.77%
Cu 327.393†	835.2	0.0047 mg/L		0.00036	0.0047 mg/L	0.00036	7.71%
Fe 238.204†	76.1	0.0321 mg/L		0.00309	0.0321 mg/L	0.00309	9.65%
K 766.490†	80667.8	24.37 mg/L		0.266	24.37 mg/L	0.266	1.09%
Mg 285.213†	441798.6	51.13 mg/L		0.561	51.13 mg/L	0.561	1.10%

Mn 257.610†	5175.2	0.2071 mg/L	0.00309	0.2071 mg/L	0.00309	1.49%
Mo 202.031†	-37.1	-0.0015 mg/L	0.00039	-0.0015 mg/L	0.00039	26.36%
Na 589.592†	Saturated2					
Ni 231.604†	1044.7	0.0262 mg/L	0.00028	0.0262 mg/L	0.00028	1.05%
Pb 220.353†	-123.5	-0.0099 mg/L	0.00072	-0.0099 mg/L	0.00072	7.27%
Sb 206.836†	91.9	0.0138 mg/L	0.00090	0.0138 mg/L	0.00090	6.55%
Se 196.026†	49.0	-0.0836 mg/L	0.01105	-0.0836 mg/L	0.01105	13.21%
Sn 189.927†	-648.0	-0.0753 mg/L	0.00074	-0.0753 mg/L	0.00074	0.98%
Ti 337.279†	95.7	0.0050 mg/L	0.00013	0.0050 mg/L	0.00013	2.63%
Tl 351.924†	152.6	0.0128 mg/L	0.00585	0.0128 mg/L	0.00585	45.73%
V 290.880†	3500.6	0.0158 mg/L	0.00108	0.0158 mg/L	0.00108	6.86%
Zn 206.200†	2332.4	0.0325 mg/L	0.00040	0.0325 mg/L	0.00040	1.24%
Zr 343.823†	452.5	0.0010 mg/L	0.00009	0.0010 mg/L	0.00009	8.93%

Sequence No.: 40

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 5

Date Collected: 4/17/2024 2:19:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5118411.5	93.15 %	0.794			0.85%
Y radial	197362.2	102.7 %	0.94			0.92%
Ag 328.068†	705807.1	2.356 mg/L	0.0378	2.356 mg/L	0.0378	1.60%
QC value within limits for Ag 328.068		Recovery = 94.24%				
Al 396.153†	37548.2	9.455 mg/L	0.0578	9.455 mg/L	0.0578	0.61%
QC value within limits for Al 396.153		Recovery = 94.55%				
As 188.979†	16255.9	4.859 mg/L	0.0192	4.859 mg/L	0.0192	0.40%
QC value within limits for As 188.979		Recovery = 97.18%				
B 208.889†	88902.4	4.498 mg/L	0.0135	4.498 mg/L	0.0135	0.30%
QC value less than the lower limit for B 208.889		Recovery = 89.96%				
Ba 233.527†	826930.5	4.891 mg/L	0.0233	4.891 mg/L	0.0233	0.48%
QC value within limits for Ba 233.527		Recovery = 97.82%				
Be 313.107†	2077823.7	4.683 mg/L	0.0646	4.683 mg/L	0.0646	1.38%
QC value within limits for Be 313.107		Recovery = 93.67%				
Ca 317.933†	64671.2	9.302 mg/L	0.0337	9.302 mg/L	0.0337	0.36%
QC value within limits for Ca 317.933		Recovery = 93.02%				
Cd 228.802†	563075.1	4.855 mg/L	0.0249	4.855 mg/L	0.0249	0.51%
QC value within limits for Cd 228.802		Recovery = 97.11%				
Co 228.616†	493045.4	4.879 mg/L	0.0248	4.879 mg/L	0.0248	0.51%
QC value within limits for Co 228.616		Recovery = 97.58%				
Cr 267.716†	638094.0	4.883 mg/L	0.0254	4.883 mg/L	0.0254	0.52%
QC value within limits for Cr 267.716		Recovery = 97.66%				
Cu 327.393†	867266.1	4.894 mg/L	0.0089	4.894 mg/L	0.0089	0.18%
QC value within limits for Cu 327.393		Recovery = 97.87%				
Fe 238.204†	10918.1	4.622 mg/L	0.0263	4.622 mg/L	0.0263	0.57%
QC value within limits for Fe 238.204		Recovery = 92.44%				
K 766.490†	31623.7	9.552 mg/L	0.0636	9.552 mg/L	0.0636	0.67%
QC value within limits for K 766.490		Recovery = 95.52%				
Mg 285.213†	80603.2	9.355 mg/L	0.0542	9.355 mg/L	0.0542	0.58%
QC value within limits for Mg 285.213		Recovery = 93.55%				
Mn 257.610†	116369.6	4.657 mg/L	0.0247	4.657 mg/L	0.0247	0.53%
QC value within limits for Mn 257.610		Recovery = 93.14%				
Mo 202.031†	122547.1	4.867 mg/L	0.0197	4.867 mg/L	0.0197	0.40%
QC value within limits for Mo 202.031		Recovery = 97.34%				
Na 589.592†	138873.1	11.42 mg/L	0.178	11.42 mg/L	0.178	1.56%
QC value greater than the upper limit for Na 589.592		Recovery = 114.21%				
Ni 231.604†	195590.3	4.907 mg/L	0.0252	4.907 mg/L	0.0252	0.51%
QC value within limits for Ni 231.604		Recovery = 98.15%				
Pb 220.353†	61232.3	4.923 mg/L	0.0141	4.923 mg/L	0.0141	0.29%
QC value within limits for Pb 220.353		Recovery = 98.46%				
Sb 206.836†	31127.0	4.860 mg/L	0.0212	4.860 mg/L	0.0212	0.44%
QC value within limits for Sb 206.836		Recovery = 97.20%				
Se 196.026†	9903.2	4.923 mg/L	0.0208	4.923 mg/L	0.0208	0.42%
QC value within limits for Se 196.026		Recovery = 98.46%				

Sn 189.927†	42198.0	4.899 mg/L	0.0227	4.899 mg/L	0.0227	0.46%
QC value within limits for Sn 189.927 Recovery = 97.97%						
Ti 337.279†	89720.2	4.732 mg/L	0.0293	4.732 mg/L	0.0293	0.62%
QC value within limits for Ti 337.279 Recovery = 94.65%						
Tl 351.924†	29169.3	2.416 mg/L	0.0224	2.416 mg/L	0.0224	0.93%
QC value within limits for Tl 351.924 Recovery = 96.66%						
V 290.880†	1076878.1	4.846 mg/L	0.0260	4.846 mg/L	0.0260	0.54%
QC value within limits for V 290.880 Recovery = 96.92%						
Zn 206.200†	355138.1	4.949 mg/L	0.0323	4.949 mg/L	0.0323	0.65%
QC value within limits for Zn 206.200 Recovery = 98.99%						
Zr 343.823†	2191108.3	4.867 mg/L	0.0208	4.867 mg/L	0.0208	0.43%
QC Failed. Continue with analysis.						

Sequence No.: 41

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 2:25:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5294749.8	96.36 %	1.062			1.10%
Y radial	201531.7	104.9 %	0.87			0.83%
Ag 328.068†	692.7	0.0023 mg/L	0.00014	0.0023 mg/L	0.00014	5.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-10.7	-0.0028 mg/L	0.00339	-0.0028 mg/L	0.00339	120.31%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-1.2	-0.0003 mg/L	0.00121	-0.0003 mg/L	0.00121	360.10%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-1896.0	-0.1012 mg/L	0.00095	-0.1012 mg/L	0.00095	0.94%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	0.4	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	663.07%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-49.1	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	41.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	9.2	0.0013 mg/L	0.00112	0.0013 mg/L	0.00112	84.78%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	3.7	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	113.70%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	18.7	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	22.46%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-4.1	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	113.66%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	335.7	0.0019 mg/L	0.00003	0.0019 mg/L	0.00003	1.68%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	11.2	0.0047 mg/L	0.00130	0.0047 mg/L	0.00130	27.65%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	271.9	0.0821 mg/L	0.01677	0.0821 mg/L	0.01677	20.42%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	4.2	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	31.25%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	1.8	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	101.80%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	28.1	0.0011 mg/L	0.00019	0.0011 mg/L	0.00019	17.27%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	22431.1	1.845 mg/L	0.0248	1.845 mg/L	0.0248	1.35%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-11.0	-0.0003 mg/L	0.00021	-0.0003 mg/L	0.00021	75.39%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	2.3	0.0002 mg/L	0.00078	0.0002 mg/L	0.00078	430.43%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-6.4	-0.0010 mg/L	0.00064	-0.0010 mg/L	0.00064	64.51%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.6	0.0013 mg/L	0.00063	0.0013 mg/L	0.00063	49.39%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	9.4	0.0011 mg/L	0.00049	0.0011 mg/L	0.00049	44.73%

QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† -5.0 -0.0003 mg/L 0.00030 -0.0003 mg/L 0.00030 112.66%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 51.9 0.0044 mg/L 0.00772 0.0044 mg/L 0.00772 176.94%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 551.7 0.0025 mg/L 0.00013 0.0025 mg/L 0.00013 5.36%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -57.5 -0.0010 mg/L 0.00013 -0.0010 mg/L 0.00013 12.97%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -81.2 -0.0002 mg/L 0.00010 -0.0002 mg/L 0.00010 54.47%
All analyte(s) passed QC.
User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 2:35:16 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/17/2024 2:35:17 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 2:35:39 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 42

Autosampler Location: 59

Sample ID: 24D1178-01

Date Collected: 4/17/2024 2:35:39 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: 24D1178-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4226561.1	76.92 %	0.189			0.25%
Y radial	171738.9	89.38 %	1.460			1.63%
Ag 328.068†	-1264.8	-0.0035 mg/L	0.00025	-0.0035 mg/L	0.00025	7.12%
Al 396.153†	1952.7	0.5047 mg/L	0.00594	0.5047 mg/L	0.00594	1.18%
As 188.979†	13.1	0.0215 mg/L	0.00299	0.0215 mg/L	0.00299	13.93%
B 208.889†	1623.9	0.0859 mg/L	0.00057	0.0859 mg/L	0.00057	0.67%
Ba 233.527†	231606.1	1.368 mg/L	0.0107	1.368 mg/L	0.0107	0.78%
Be 313.107†	327.4	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	16.30%
Ca 317.933†	4614681.6	663.8 mg/L	3.12	663.8 mg/L	3.12	0.47%
Cd 228.802†	32120.9	0.2825 mg/L	0.00152	0.2825 mg/L	0.00152	0.54%
Co 228.616†	17371.5	0.1712 mg/L	0.00159	0.1712 mg/L	0.00159	0.93%
Cr 267.716†	8757.1	0.0670 mg/L	0.00013	0.0670 mg/L	0.00013	0.19%
Cu 327.393†	103765.9	0.5834 mg/L	0.00280	0.5834 mg/L	0.00280	0.48%
Fe 238.204†	726.6	0.3067 mg/L	0.00194	0.3067 mg/L	0.00194	0.63%
K 766.490†	41084.6	12.41 mg/L	0.112	12.41 mg/L	0.112	0.90%
Mg 285.213†	92892.8	10.62 mg/L	0.128	10.62 mg/L	0.128	1.20%
Mn 257.610†	8709.6	0.3486 mg/L	0.00483	0.3486 mg/L	0.00483	1.39%
Mo 202.031†	358.4	0.0142 mg/L	0.00026	0.0142 mg/L	0.00026	1.80%
Na 589.592†	Saturated2					
Ni 231.604†	1203.8	0.0302 mg/L	0.00028	0.0302 mg/L	0.00028	0.92%
Pb 220.353†	12119.3	0.9725 mg/L	0.00184	0.9725 mg/L	0.00184	0.19%
Sb 206.836†	348.9	0.0538 mg/L	0.00048	0.0538 mg/L	0.00048	0.89%
Se 196.026†	44.4	-0.0484 mg/L	0.00327	-0.0484 mg/L	0.00327	6.75%
Sn 189.927†	-533.1	-0.0619 mg/L	0.00107	-0.0619 mg/L	0.00107	1.73%

Ti 337.279†	8046.6	0.4247 mg/L	0.01328	0.4247 mg/L	0.01328	3.13%
Tl 351.924†	186.5	0.0136 mg/L	0.00148	0.0136 mg/L	0.00148	10.88%
V 290.880†	43315.7	0.1951 mg/L	0.00133	0.1951 mg/L	0.00133	0.68%
Zn 206.200†	1527279.6	21.18 mg/L	0.071	21.18 mg/L	0.071	0.33%
Zr 343.823†	1750.7	0.0039 mg/L	0.00019	0.0039 mg/L	0.00019	5.02%

Sequence No.: 43

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 7

Date Collected: 4/17/2024 2:43:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5355432.9	97.47 %		0.414				0.42%
Y radial	198384.6	103.3 %		1.19				1.15%
Ag 328.068†	482.0	0.0016 mg/L		0.00011	0.0016 mg/L		0.00011	6.93%
Al 396.153†	2.3	0.0006 mg/L		0.00582	0.0006 mg/L		0.00582	963.03%
As 188.979†	-3.4	-0.0010 mg/L		0.00204	-0.0010 mg/L		0.00204	212.37%
B 208.889†	-2073.8	-0.1106 mg/L		0.00042	-0.1106 mg/L		0.00042	0.38%
Ba 233.527†	16.7	0.0001 mg/L		0.00004	0.0001 mg/L		0.00004	36.50%
Be 313.107†	-11.1	-0.0000 mg/L		0.00002	-0.0000 mg/L		0.00002	41.79%
Ca 317.933†	147.1	0.0212 mg/L		0.00303	0.0212 mg/L		0.00303	14.33%
Cd 228.802†	-1.8	0.0000 mg/L		0.00006	0.0000 mg/L		0.00006	793.49%
Co 228.616†	11.0	0.0001 mg/L		0.00007	0.0001 mg/L		0.00007	66.35%
Cr 267.716†	-16.9	-0.0001 mg/L		0.00004	-0.0001 mg/L		0.00004	34.35%
Cu 327.393†	223.4	0.0013 mg/L		0.00016	0.0013 mg/L		0.00016	12.67%
Fe 238.204†	10.4	0.0044 mg/L		0.00068	0.0044 mg/L		0.00068	15.42%
K 766.490†	468.2	0.1414 mg/L		0.02287	0.1414 mg/L		0.02287	16.17%
Mg 285.213†	26.2	0.0031 mg/L		0.00021	0.0031 mg/L		0.00021	6.95%
Mn 257.610†	6.8	0.0003 mg/L		0.00029	0.0003 mg/L		0.00029	104.93%
Mo 202.031†	1.2	0.0000 mg/L		0.00018	0.0000 mg/L		0.00018	385.59%
Na 589.592†	25795.6	2.121 mg/L		0.0786	2.121 mg/L		0.0786	3.70%
Ni 231.604†	-6.4	-0.0002 mg/L		0.00007	-0.0002 mg/L		0.00007	42.73%
Pb 220.353†	-2.4	-0.0002 mg/L		0.00019	-0.0002 mg/L		0.00019	97.97%
Sb 206.836†	1.3	0.0002 mg/L		0.00033	0.0002 mg/L		0.00033	152.49%
Se 196.026†	-1.3	-0.0007 mg/L		0.00145	-0.0007 mg/L		0.00145	217.89%
Sn 189.927†	5.8	0.0007 mg/L		0.00081	0.0007 mg/L		0.00081	119.46%
Ti 337.279†	1.6	0.0001 mg/L		0.00020	0.0001 mg/L		0.00020	244.71%
Tl 351.924†	58.9	0.0049 mg/L		0.00173	0.0049 mg/L		0.00173	35.03%
V 290.880†	539.7	0.0024 mg/L		0.00016	0.0024 mg/L		0.00016	6.56%
Zn 206.200†	75.0	0.0008 mg/L		0.00012	0.0008 mg/L		0.00012	14.11%
Zr 343.823†	-51.9	-0.0001 mg/L		0.00005	-0.0001 mg/L		0.00005	44.48%

Sequence No.: 44

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 60

Date Collected: 4/17/2024 2:48:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5420280.0	98.65 %		0.431				0.44%
Y radial	201261.5	104.7 %		1.30				1.24%
Ag 328.068†	373.1	0.0013 mg/L		0.00037	0.0013 mg/L		0.00037	29.20%
Al 396.153†	19.0	0.0049 mg/L		0.00517	0.0049 mg/L		0.00517	104.91%
As 188.979†	-6.0	-0.0017 mg/L		0.00021	-0.0017 mg/L		0.00021	12.23%
B 208.889†	-2109.7	-0.1125 mg/L		0.00056	-0.1125 mg/L		0.00056	0.50%
Ba 233.527†	9.6	0.0001 mg/L		0.00006	0.0001 mg/L		0.00006	103.90%
Be 313.107†	-18.5	-0.0001 mg/L		0.00002	-0.0001 mg/L		0.00002	39.72%
Ca 317.933†	150.0	0.0216 mg/L		0.00245	0.0216 mg/L		0.00245	11.34%
Cd 228.802†	-6.2	-0.0000 mg/L		0.00004	-0.0000 mg/L		0.00004	289.47%

Co 228.616†	18.9	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	38.18%
Cr 267.716†	-22.8	-0.0002 mg/L	0.00012	-0.0002 mg/L	0.00012	66.92%
Cu 327.393†	583.9	0.0033 mg/L	0.00007	0.0033 mg/L	0.00007	2.17%
Fe 238.204†	12.7	0.0054 mg/L	0.00138	0.0054 mg/L	0.00138	25.63%
K 766.490†	357.0	0.1078 mg/L	0.01750	0.1078 mg/L	0.01750	16.23%
Mg 285.213†	21.3	0.0025 mg/L	0.00028	0.0025 mg/L	0.00028	11.30%
Mn 257.610†	10.9	0.0004 mg/L	0.00015	0.0004 mg/L	0.00015	33.93%
Mo 202.031†	-1.1	-0.0000 mg/L	0.00008	-0.0000 mg/L	0.00008	197.69%
Na 589.592†	19268.3	1.585 mg/L	0.0215	1.585 mg/L	0.0215	1.36%
Ni 231.604†	-11.9	-0.0003 mg/L	0.00006	-0.0003 mg/L	0.00006	20.05%
Pb 220.353†	-1.2	-0.0001 mg/L	0.00071	-0.0001 mg/L	0.00071	676.32%
Sb 206.836†	4.6	0.0007 mg/L	0.00071	0.0007 mg/L	0.00071	96.15%
Se 196.026†	2.5	0.0012 mg/L	0.00196	0.0012 mg/L	0.00196	159.41%
Sn 189.927†	9.7	0.0011 mg/L	0.00024	0.0011 mg/L	0.00024	21.13%
Ti 337.279†	-2.6	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	87.39%
Tl 351.924†	35.9	0.0030 mg/L	0.00686	0.0030 mg/L	0.00686	227.18%
V 290.880†	617.5	0.0028 mg/L	0.00023	0.0028 mg/L	0.00023	8.40%
Zn 206.200†	118.3	0.0015 mg/L	0.00008	0.0015 mg/L	0.00008	5.11%
Zr 343.823†	-35.8	-0.0001 mg/L	0.00018	-0.0001 mg/L	0.00018	223.95%

Sequence No.: 45

Sample ID: B371416-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 61

Date Collected: 4/17/2024 2:54:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5294848.2	96.36 %		0.077			0.08%
Y radial	201134.9	104.7 %		0.59			0.56%
Ag 328.068†	152872.5	0.5169 mg/L		0.00063	0.5169 mg/L	0.00063	0.12%
Al 396.153†	1987.5	0.4951 mg/L		0.00798	0.4951 mg/L	0.00798	1.61%
As 188.979†	1571.4	0.4706 mg/L		0.00236	0.4706 mg/L	0.00236	0.50%
B 208.889†	15764.0	0.8166 mg/L		0.00313	0.8166 mg/L	0.00313	0.38%
Ba 233.527†	84604.7	0.5000 mg/L		0.00013	0.5000 mg/L	0.00013	0.03%
Be 313.107†	217245.1	0.4897 mg/L		0.00222	0.4897 mg/L	0.00222	0.45%
Ca 317.933†	26287.1	3.781 mg/L		0.0208	3.781 mg/L	0.0208	0.55%
Cd 228.802†	57318.8	0.4949 mg/L		0.00052	0.4949 mg/L	0.00052	0.11%
Co 228.616†	49870.7	0.4935 mg/L		0.00057	0.4935 mg/L	0.00057	0.12%
Cr 267.716†	65088.3	0.4980 mg/L		0.00130	0.4980 mg/L	0.00130	0.26%
Cu 327.393†	171861.7	0.9663 mg/L		0.00281	0.9663 mg/L	0.00281	0.29%
Fe 238.204†	8949.5	3.770 mg/L		0.0136	3.770 mg/L	0.0136	0.36%
K 766.490†	12511.0	3.779 mg/L		0.0244	3.779 mg/L	0.0244	0.65%
Mg 285.213†	32984.4	3.841 mg/L		0.0193	3.841 mg/L	0.0193	0.50%
Mn 257.610†	11741.4	0.4702 mg/L		0.00281	0.4702 mg/L	0.00281	0.60%
Mo 202.031†	12199.7	0.4845 mg/L		0.00145	0.4845 mg/L	0.00145	0.30%
Na 589.592†	55205.2	4.540 mg/L		0.0190	4.540 mg/L	0.0190	0.42%
Ni 231.604†	19826.0	0.4973 mg/L		0.00153	0.4973 mg/L	0.00153	0.31%
Pb 220.353†	6137.3	0.4923 mg/L		0.00108	0.4923 mg/L	0.00108	0.22%
Sb 206.836†	3149.7	0.4915 mg/L		0.00258	0.4915 mg/L	0.00258	0.52%
Se 196.026†	997.0	0.4947 mg/L		0.00187	0.4947 mg/L	0.00187	0.38%
Sn 189.927†	4178.4	0.4856 mg/L		0.00101	0.4856 mg/L	0.00101	0.21%
Ti 337.279†	9070.9	0.4787 mg/L		0.00088	0.4787 mg/L	0.00088	0.18%
Tl 351.924†	5662.0	0.4755 mg/L		0.00505	0.4755 mg/L	0.00505	1.06%
V 290.880†	109919.6	0.4944 mg/L		0.00083	0.4944 mg/L	0.00083	0.17%
Zn 206.200†	72075.1	0.9999 mg/L		0.00218	0.9999 mg/L	0.00218	0.22%
Zr 343.823†	704.5	0.0015 mg/L		0.00027	0.0015 mg/L	0.00027	18.46%

Sequence No.: 46

Sample ID: B371416-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 62

Date Collected: 4/17/2024 2:59:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5288298.2	96.25	%	0.691			0.72%
Y radial	202240.9	105.3	%	0.78			0.74%
Ag 328.068†	151688.4	0.5128	mg/L	0.00551	0.5128 mg/L	0.00551	1.07%
Al 396.153†	1920.4	0.4778	mg/L	0.00475	0.4778 mg/L	0.00475	0.99%
As 188.979†	1556.7	0.4662	mg/L	0.00430	0.4662 mg/L	0.00430	0.92%
B 208.889†	15683.3	0.8124	mg/L	0.01071	0.8124 mg/L	0.01071	1.32%
Ba 233.527†	83757.4	0.4950	mg/L	0.00692	0.4950 mg/L	0.00692	1.40%
Be 313.107†	214769.8	0.4841	mg/L	0.00592	0.4841 mg/L	0.00592	1.22%
Ca 317.933†	25844.2	3.717	mg/L	0.0130	3.717 mg/L	0.0130	0.35%
Cd 228.802†	56849.6	0.4908	mg/L	0.00568	0.4908 mg/L	0.00568	1.16%
Co 228.616†	49330.9	0.4881	mg/L	0.00733	0.4881 mg/L	0.00733	1.50%
Cr 267.716†	64464.4	0.4932	mg/L	0.00644	0.4932 mg/L	0.00644	1.31%
Cu 327.393†	170444.5	0.9583	mg/L	0.01206	0.9583 mg/L	0.01206	1.26%
Fe 238.204†	8797.0	3.706	mg/L	0.0191	3.706 mg/L	0.0191	0.51%
K 766.490†	12573.6	3.798	mg/L	0.0116	3.798 mg/L	0.0116	0.30%
Mg 285.213†	32390.7	3.771	mg/L	0.0040	3.771 mg/L	0.0040	0.11%
Mn 257.610†	11639.7	0.4661	mg/L	0.00213	0.4661 mg/L	0.00213	0.46%
Mo 202.031†	12155.6	0.4828	mg/L	0.00350	0.4828 mg/L	0.00350	0.73%
Na 589.592†	56774.9	4.669	mg/L	0.0040	4.669 mg/L	0.0040	0.09%
Ni 231.604†	19642.2	0.4927	mg/L	0.00677	0.4927 mg/L	0.00677	1.37%
Pb 220.353†	6112.7	0.4903	mg/L	0.00359	0.4903 mg/L	0.00359	0.73%
Sb 206.836†	3128.1	0.4882	mg/L	0.00377	0.4882 mg/L	0.00377	0.77%
Se 196.026†	998.2	0.4953	mg/L	0.00502	0.4953 mg/L	0.00502	1.01%
Sn 189.927†	4152.7	0.4826	mg/L	0.00413	0.4826 mg/L	0.00413	0.85%
Ti 337.279†	9003.1	0.4751	mg/L	0.00045	0.4751 mg/L	0.00045	0.09%
Tl 351.924†	5657.6	0.4752	mg/L	0.00736	0.4752 mg/L	0.00736	1.55%
V 290.880†	108730.8	0.4890	mg/L	0.00633	0.4890 mg/L	0.00633	1.29%
Zn 206.200†	71474.0	0.9915	mg/L	0.01506	0.9915 mg/L	0.01506	1.52%
Zr 343.823†	376.5	0.0007	mg/L	0.00003	0.0007 mg/L	0.00003	4.50%

Sequence No.: 47

Sample ID: B371416-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 63

Date Collected: 4/17/2024 3:03:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5179409.7	94.26	%	0.687			0.73%
Y radial	200398.3	104.3	%	0.49			0.47%
Ag 328.068†	150715.7	0.5096	mg/L	0.00586	0.5096 mg/L	0.00586	1.15%
Al 396.153†	2173.0	0.5431	mg/L	0.00361	0.5431 mg/L	0.00361	0.66%
As 188.979†	1581.5	0.4748	mg/L	0.00273	0.4748 mg/L	0.00273	0.57%
B 208.889†	16481.4	0.8548	mg/L	0.01798	0.8548 mg/L	0.01798	2.10%
Ba 233.527†	86115.3	0.5086	mg/L	0.00638	0.5086 mg/L	0.00638	1.25%
Be 313.107†	216303.6	0.4876	mg/L	0.00336	0.4876 mg/L	0.00336	0.69%
Ca 317.933†	210577.5	30.29	mg/L	0.178	30.29 mg/L	0.178	0.59%
Cd 228.802†	57309.7	0.4947	mg/L	0.00610	0.4947 mg/L	0.00610	1.23%
Co 228.616†	48910.0	0.4840	mg/L	0.00580	0.4840 mg/L	0.00580	1.20%
Cr 267.716†	64539.9	0.4937	mg/L	0.00442	0.4937 mg/L	0.00442	0.89%
Cu 327.393†	176322.9	0.9914	mg/L	0.01255	0.9914 mg/L	0.01255	1.27%
Fe 238.204†	13967.5	5.882	mg/L	0.0244	5.882 mg/L	0.0244	0.41%
K 766.490†	15421.4	4.658	mg/L	0.0241	4.658 mg/L	0.0241	0.52%
Mg 285.213†	75013.4	8.725	mg/L	0.0122	8.725 mg/L	0.0122	0.14%
Mn 257.610†	16205.4	0.6490	mg/L	0.00230	0.6490 mg/L	0.00230	0.35%
Mo 202.031†	12265.9	0.4872	mg/L	0.00377	0.4872 mg/L	0.00377	0.77%
Na 589.592†	721232.7	59.31	mg/L	0.596	59.31 mg/L	0.596	1.00%
Ni 231.604†	19348.1	0.4853	mg/L	0.00467	0.4853 mg/L	0.00467	0.96%
Pb 220.353†	6016.6	0.4824	mg/L	0.00260	0.4824 mg/L	0.00260	0.54%
Sb 206.836†	3170.6	0.4948	mg/L	0.00482	0.4948 mg/L	0.00482	0.97%
Se 196.026†	1014.9	0.4999	mg/L	0.00322	0.4999 mg/L	0.00322	0.64%
Sn 189.927†	3952.0	0.4592	mg/L	0.00337	0.4592 mg/L	0.00337	0.73%

Ti 337.279†	9112.2	0.4809 mg/L	0.00163	0.4809 mg/L	0.00163	0.34%
Tl 351.924†	5844.9	0.4923 mg/L	0.00942	0.4923 mg/L	0.00942	1.91%
V 290.880†	110054.6	0.4948 mg/L	0.00694	0.4948 mg/L	0.00694	1.40%
Zn 206.200†	77544.3	1.071 mg/L	0.0081	1.071 mg/L	0.0081	0.76%
Zr 343.823†	488.3	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.72%

Sequence No.: 48

Sample ID: B371416-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 64

Date Collected: 4/17/2024 3:08:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5267913.8	95.87	%	1.733				1.81%
Y radial	200171.2	104.2	%	2.28				2.19%
Ag 328.068†	148426.3	0.5019	mg/L	0.01586	0.5019	mg/L	0.01586	3.16%
Al 396.153†	2206.6	0.5520	mg/L	0.00185	0.5520	mg/L	0.00185	0.33%
As 188.979†	1548.1	0.4649	mg/L	0.00842	0.4649	mg/L	0.00842	1.81%
B 208.889†	16186.4	0.8394	mg/L	0.03270	0.8394	mg/L	0.03270	3.90%
Ba 233.527†	84857.6	0.5012	mg/L	0.01501	0.5012	mg/L	0.01501	2.99%
Be 313.107†	212432.2	0.4789	mg/L	0.00991	0.4789	mg/L	0.00991	2.07%
Ca 317.933†	208260.4	29.96	mg/L	0.642	29.96	mg/L	0.642	2.14%
Cd 228.802†	56464.4	0.4875	mg/L	0.01526	0.4875	mg/L	0.01526	3.13%
Co 228.616†	48220.1	0.4771	mg/L	0.01412	0.4771	mg/L	0.01412	2.96%
Cr 267.716†	63592.8	0.4865	mg/L	0.01532	0.4865	mg/L	0.01532	3.15%
Cu 327.393†	173659.8	0.9764	mg/L	0.03656	0.9764	mg/L	0.03656	3.74%
Fe 238.204†	14134.8	5.953	mg/L	0.0744	5.953	mg/L	0.0744	1.25%
K 766.490†	15106.2	4.563	mg/L	0.0610	4.563	mg/L	0.0610	1.34%
Mg 285.213†	75028.2	8.727	mg/L	0.0860	8.727	mg/L	0.0860	0.99%
Mn 257.610†	16347.0	0.6546	mg/L	0.00800	0.6546	mg/L	0.00800	1.22%
Mo 202.031†	12091.3	0.4802	mg/L	0.00793	0.4802	mg/L	0.00793	1.65%
Na 589.592†	679369.5	55.87	mg/L	1.089	55.87	mg/L	1.089	1.95%
Ni 231.604†	19084.5	0.4787	mg/L	0.01391	0.4787	mg/L	0.01391	2.91%
Pb 220.353†	5916.5	0.4744	mg/L	0.00847	0.4744	mg/L	0.00847	1.79%
Sb 206.836†	3112.8	0.4858	mg/L	0.00869	0.4858	mg/L	0.00869	1.79%
Se 196.026†	997.5	0.4913	mg/L	0.00983	0.4913	mg/L	0.00983	2.00%
Sn 189.927†	3898.5	0.4530	mg/L	0.00785	0.4530	mg/L	0.00785	1.73%
Ti 337.279†	9078.7	0.4791	mg/L	0.00440	0.4791	mg/L	0.00440	0.92%
Tl 351.924†	5782.3	0.4871	mg/L	0.02256	0.4871	mg/L	0.02256	4.63%
V 290.880†	108461.2	0.4877	mg/L	0.01730	0.4877	mg/L	0.01730	3.55%
Zn 206.200†	76140.5	1.052	mg/L	0.0261	1.052	mg/L	0.0261	2.48%
Zr 343.823†	401.2	0.0007	mg/L	0.00006	0.0007	mg/L	0.00006	8.44%

Sequence No.: 49

Sample ID: B371416-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 65

Date Collected: 4/17/2024 3:12:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-PS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5165341.8	94.01	%	0.709				0.75%
Y radial	196576.0	102.3	%	1.15				1.12%
Ag 328.068†	561880.2	1.900	mg/L	0.0449	1.900	mg/L	0.0449	2.36%
Al 396.153†	8067.3	2.011	mg/L	0.0115	2.011	mg/L	0.0115	0.57%
As 188.979†	6251.8	1.874	mg/L	0.0135	1.874	mg/L	0.0135	0.72%
B 208.889†	70008.0	3.638	mg/L	0.0247	3.638	mg/L	0.0247	0.68%
Ba 233.527†	325510.9	1.923	mg/L	0.0149	1.923	mg/L	0.0149	0.78%
Be 313.107†	861696.5	1.943	mg/L	0.0107	1.943	mg/L	0.0107	0.55%
Ca 317.933†	283953.8	40.84	mg/L	0.231	40.84	mg/L	0.231	0.57%
Cd 228.802†	223066.7	1.925	mg/L	0.0129	1.925	mg/L	0.0129	0.67%

Co 228.616†	189361.3	1.874 mg/L	0.0155	1.874 mg/L	0.0155	0.83%
Cr 267.716†	249270.4	1.907 mg/L	0.0172	1.907 mg/L	0.0172	0.90%
Cu 327.393†	684447.2	3.848 mg/L	0.0509	3.848 mg/L	0.0509	1.32%
Fe 238.204†	39969.4	16.84 mg/L	0.107	16.84 mg/L	0.107	0.63%
K 766.490†	54866.6	16.57 mg/L	0.083	16.57 mg/L	0.083	0.50%
Mg 285.213†	171366.5	19.94 mg/L	0.068	19.94 mg/L	0.068	0.34%
Mn 257.610†	50614.4	2.027 mg/L	0.0106	2.027 mg/L	0.0106	0.52%
Mo 202.031†	48426.3	1.923 mg/L	0.0161	1.923 mg/L	0.0161	0.84%
Na 589.592†	892953.8	73.44 mg/L	0.628	73.44 mg/L	0.628	0.86%
Ni 231.604†	74785.9	1.876 mg/L	0.0191	1.876 mg/L	0.0191	1.02%
Pb 220.353†	23359.5	1.873 mg/L	0.0162	1.873 mg/L	0.0162	0.86%
Sb 206.836†	12399.8	1.936 mg/L	0.0164	1.936 mg/L	0.0164	0.85%
Se 196.026†	3951.4	1.957 mg/L	0.0176	1.957 mg/L	0.0176	0.90%
Sn 189.927†	16126.1	1.874 mg/L	0.0156	1.874 mg/L	0.0156	0.83%
Ti 337.279†	36473.5	1.925 mg/L	0.0041	1.925 mg/L	0.0041	0.21%
Tl 351.924†	23886.4	2.008 mg/L	0.0169	2.008 mg/L	0.0169	0.84%
V 290.880†	427991.4	1.925 mg/L	0.0138	1.925 mg/L	0.0138	0.72%
Zn 206.200†	279141.0	3.868 mg/L	0.0279	3.868 mg/L	0.0279	0.72%
Zr 343.823†	947.4	0.0017 mg/L	0.00034	0.0017 mg/L	0.00034	19.98%

Sequence No.: 50

Sample ID: B371416-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 66

Date Collected: 4/17/2024 3:17:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371416-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5421537.2	98.67 %	1.071			1.09%
Y radial	198463.9	103.3 %	0.79			0.77%
Ag 328.068†	863.6	0.0029 mg/L	0.00026	0.0029 mg/L	0.00026	8.77%
Al 396.153†	42.5	0.0109 mg/L	0.00147	0.0109 mg/L	0.00147	13.46%
As 188.979†	-5.1	-0.0013 mg/L	0.00024	-0.0013 mg/L	0.00024	19.21%
B 208.889†	-1786.4	-0.0954 mg/L	0.00085	-0.0954 mg/L	0.00085	0.89%
Ba 233.527†	643.2	0.0037 mg/L	0.00008	0.0037 mg/L	0.00008	2.20%
Be 313.107†	25.6	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	65.30%
Ca 317.933†	36249.6	5.214 mg/L	0.0202	5.214 mg/L	0.0202	0.39%
Cd 228.802†	13.7	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	43.84%
Co 228.616†	22.9	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	47.89%
Cr 267.716†	94.9	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	14.22%
Cu 327.393†	-424.8	-0.0024 mg/L	0.00026	-0.0024 mg/L	0.00026	10.83%
Fe 238.204†	1011.7	0.4259 mg/L	0.00476	0.4259 mg/L	0.00476	1.12%
K 766.490†	865.1	0.2613 mg/L	0.00899	0.2613 mg/L	0.00899	3.44%
Mg 285.213†	8319.9	0.9670 mg/L	0.00905	0.9670 mg/L	0.00905	0.94%
Mn 257.610†	919.1	0.0368 mg/L	0.00026	0.0368 mg/L	0.00026	0.70%
Mo 202.031†	41.6	0.0017 mg/L	0.00020	0.0017 mg/L	0.00020	12.07%
Na 589.592†	145461.0	11.96 mg/L	0.085	11.96 mg/L	0.085	0.71%
Ni 231.604†	4.6	0.0001 mg/L	0.00019	0.0001 mg/L	0.00019	167.12%
Pb 220.353†	8.5	0.0007 mg/L	0.00075	0.0007 mg/L	0.00075	111.64%
Sb 206.836†	7.4	0.0012 mg/L	0.00048	0.0012 mg/L	0.00048	41.72%
Se 196.026†	3.1	0.0008 mg/L	0.00202	0.0008 mg/L	0.00202	240.59%
Sn 189.927†	-53.7	-0.0062 mg/L	0.00039	-0.0062 mg/L	0.00039	6.19%
Ti 337.279†	7.0	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	59.19%
Tl 351.924†	80.9	0.0071 mg/L	0.00649	0.0071 mg/L	0.00649	91.65%
V 290.880†	631.0	0.0028 mg/L	0.00063	0.0028 mg/L	0.00063	22.44%
Zn 206.200†	1117.5	0.0144 mg/L	0.00014	0.0144 mg/L	0.00014	0.94%
Zr 343.823†	-41.9	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	168.06%

Sequence No.: 51

Sample ID: 24D0735-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 67

Date Collected: 4/17/2024 3:23:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-04

Mean Corrected		Calib.	Sample					
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y axial	5171161.0	94.11	%	0.557				0.59%
Y radial	200434.6	104.3	%	2.33				2.23%
Ag 328.068†	260.0	0.0009	mg/L	0.00018	0.0009	mg/L	0.00018	19.79%
Al 396.153†	191.1	0.0495	mg/L	0.00182	0.0495	mg/L	0.00182	3.67%
As 188.979†	-22.8	-0.0056	mg/L	0.00067	-0.0056	mg/L	0.00067	11.95%
B 208.889†	-1601.9	-0.0856	mg/L	0.00072	-0.0856	mg/L	0.00072	0.85%
Ba 233.527†	3382.8	0.0197	mg/L	0.00019	0.0197	mg/L	0.00019	0.98%
Be 313.107†	-11.0	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	68.21%
Ca 317.933†	183417.7	26.38	mg/L	0.295	26.38	mg/L	0.295	1.12%
Cd 228.802†	113.2	0.0012	mg/L	0.00004	0.0012	mg/L	0.00004	3.78%
Co 228.616†	66.1	0.0007	mg/L	0.00011	0.0007	mg/L	0.00011	16.88%
Cr 267.716†	615.5	0.0046	mg/L	0.00006	0.0046	mg/L	0.00006	1.33%
Cu 327.393†	-36.5	-0.0002	mg/L	0.00013	-0.0002	mg/L	0.00013	61.45%
Fe 238.204†	5099.4	2.147	mg/L	0.0370	2.147	mg/L	0.0370	1.72%
K 766.490†	2841.5	0.8583	mg/L	0.01908	0.8583	mg/L	0.01908	2.22%
Mg 285.213†	42834.6	4.979	mg/L	0.0825	4.979	mg/L	0.0825	1.66%
Mn 257.610†	4629.9	0.1854	mg/L	0.00372	0.1854	mg/L	0.00372	2.00%
Mo 202.031†	55.2	0.0022	mg/L	0.00030	0.0022	mg/L	0.00030	13.91%
Na 589.592†	666830.2	54.84	mg/L	0.167	54.84	mg/L	0.167	0.31%
Ni 231.604†	69.0	0.0017	mg/L	0.00028	0.0017	mg/L	0.00028	16.05%
Pb 220.353†	18.2	0.0014	mg/L	0.00079	0.0014	mg/L	0.00079	56.48%
Sb 206.836†	19.5	0.0030	mg/L	0.00059	0.0030	mg/L	0.00059	20.04%
Se 196.026†	7.6	0.0001	mg/L	0.00046	0.0001	mg/L	0.00046	450.54%
Sn 189.927†	-209.6	-0.0244	mg/L	0.00031	-0.0244	mg/L	0.00031	1.26%
Ti 337.279†	16.7	0.0009	mg/L	0.00027	0.0009	mg/L	0.00027	30.26%
Tl 351.924†	-6.9	0.0008	mg/L	0.00845	0.0008	mg/L	0.00845	>999.9%
V 290.880†	1123.8	0.0049	mg/L	0.00064	0.0049	mg/L	0.00064	13.13%
Zn 206.200†	6023.4	0.0787	mg/L	0.00064	0.0787	mg/L	0.00064	0.82%
Zr 343.823†	176.5	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	28.29%

Sequence No. : 52

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 3:28:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

SEE RERUN- JLC 04/18/24

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected	Calib.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units	Conc.	Units		
Y axial	5251626.8	95.58 %			0.392	0.41%
Y radial	201625.0	104.9 %			1.88	1.79%
Ag 328.068†	674152.3	2.249 mg/L			0.0148	0.66%
QC value	less than the lower limit	for Ag 328.068	Recovery =	89.97%		
Al 396.153†	37476.9	9.438 mg/L			0.1484	1.57%
QC value	within limits	for Al 396.153	Recovery =	94.38%		
As 188.979†	15974.5	4.775 mg/L			0.0333	0.70%
QC value	within limits	for As 188.979	Recovery =	95.50%		
B 208.889†	86606.0	4.377 mg/L			0.0225	0.51%
QC value	less than the lower limit	for B 208.889	Recovery =	87.55%		
Ba 233.527†	817593.3	4.836 mg/L			0.0247	0.51%
QC value	within limits	for Ba 233.527	Recovery =	96.72%		
Be 313.107†	2031994.2	4.580 mg/L			0.0885	1.93%
QC value	within limits	for Be 313.107	Recovery =	91.60%		
Ca 317.933†	63889.3	9.190 mg/L			0.1581	1.72%
QC value	within limits	for Ca 317.933	Recovery =	91.90%		
Cd 228.802†	552447.9	4.764 mg/L			0.0236	0.49%
QC value	within limits	for Cd 228.802	Recovery =	95.27%		
Co 228.616†	486166.7	4.811 mg/L			0.0235	0.49%
QC value	within limits	for Co 228.616	Recovery =	96.22%		
Cr 267.716†	630752.6	4.827 mg/L			0.0208	0.43%
QC value	within limits	for Cr 267.716	Recovery =	96.54%		
Cu 327.393†	849674.8	4.795 mg/L			0.0185	0.39%
QC value	within limits	for Cu 327.393	Recovery =	95.89%		

Fe 238.204†	10937.6	4.630 mg/L	0.0734	4.630 mg/L	0.0734	1.59%
QC value within limits for Fe 238.204 Recovery = 92.60%						
K 766.490†	30340.6	9.165 mg/L	0.1485	9.165 mg/L	0.1485	1.62%
QC value within limits for K 766.490 Recovery = 91.65%						
Mg 285.213†	79718.5	9.252 mg/L	0.1450	9.252 mg/L	0.1450	1.57%
QC value within limits for Mg 285.213 Recovery = 92.52%						
Mn 257.610†	115521.2	4.623 mg/L	0.0765	4.623 mg/L	0.0765	1.65%
QC value within limits for Mn 257.610 Recovery = 92.47%						
Mo 202.031†	121672.7	4.832 mg/L	0.0181	4.832 mg/L	0.0181	0.37%
QC value within limits for Mo 202.031 Recovery = 96.65%						
Na 589.592†	106838.2	8.786 mg/L	0.2036	8.786 mg/L	0.2036	2.32%
QC value less than the lower limit for Na 589.592 Recovery = 87.86%						
Ni 231.604†	192668.1	4.834 mg/L	0.0216	4.834 mg/L	0.0216	0.45%
QC value within limits for Ni 231.604 Recovery = 96.68%						
Pb 220.353†	60448.6	4.860 mg/L	0.0510	4.860 mg/L	0.0510	1.05%
QC value within limits for Pb 220.353 Recovery = 97.20%						
Sb 206.836†	30715.3	4.796 mg/L	0.0586	4.796 mg/L	0.0586	1.22%
QC value within limits for Sb 206.836 Recovery = 95.91%						
Se 196.026†	9656.4	4.801 mg/L	0.0401	4.801 mg/L	0.0401	0.83%
QC value within limits for Se 196.026 Recovery = 96.01%						
Sn 189.927†	41808.1	4.853 mg/L	0.0520	4.853 mg/L	0.0520	1.07%
QC value within limits for Sn 189.927 Recovery = 97.07%						
Ti 337.279†	88777.2	4.683 mg/L	0.0731	4.683 mg/L	0.0731	1.56%
QC value within limits for Ti 337.279 Recovery = 93.65%						
Tl 351.924†	28850.9	2.390 mg/L	0.0146	2.390 mg/L	0.0146	0.61%
QC value within limits for Tl 351.924 Recovery = 95.60%						
V 290.880†	1061053.7	4.775 mg/L	0.0204	4.775 mg/L	0.0204	0.43%
QC value within limits for V 290.880 Recovery = 95.49%						
Zn 206.200†	347988.4	4.851 mg/L	0.0251	4.851 mg/L	0.0251	0.52%
QC value within limits for Zn 206.200 Recovery = 97.01%						
Zr 343.823†	2176923.4	4.835 mg/L	0.0223	4.835 mg/L	0.0223	0.46%
QC Failed. Continue with analysis.						

SEE RERUN- JLC 04/18/24

Sequence No.: 53

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 3:34:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5314175.6	96.72 %	0.420			0.43%
Y radial	199963.3	104.1 %	1.54			1.48%
Ag 328.068†	895.2	0.0030 mg/L	0.00034	0.0030 mg/L	0.00034	11.16%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-3.2	-0.0009 mg/L	0.00548	-0.0009 mg/L	0.00548	628.09%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-10.9	-0.0032 mg/L	0.00050	-0.0032 mg/L	0.00050	15.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-1932.9	-0.1032 mg/L	0.00060	-0.1032 mg/L	0.00060	0.59%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	1.0	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	336.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	4.4	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	524.42%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	0.6	0.0001 mg/L	0.00287	0.0001 mg/L	0.00287	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	0.9	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	36.51%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	12.3	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	53.83%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.4	-0.0000 mg/L	0.00030	-0.0000 mg/L	0.00030	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-691.4	-0.0039 mg/L	0.00041	-0.0039 mg/L	0.00041	10.66%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	4.1	0.0017 mg/L	0.00176	0.0017 mg/L	0.00176	101.71%

QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† 200.2 0.0605 mg/L 0.01844 0.0605 mg/L 0.01844 30.50%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 6.4 0.0008 mg/L 0.00017 0.0008 mg/L 0.00017 22.46%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 0.4 0.0000 mg/L 0.00017 0.0000 mg/L 0.00017 >999.9%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 29.0 0.0012 mg/L 0.00001 0.0012 mg/L 0.00001 0.49%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 4615.6 0.3796 mg/L 0.00572 0.3796 mg/L 0.00572 1.51%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† -2.2 -0.0001 mg/L 0.00011 -0.0001 mg/L 0.00011 203.83%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 8.3 0.0007 mg/L 0.00042 0.0007 mg/L 0.00042 61.67%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 0.8 0.0001 mg/L 0.00055 0.0001 mg/L 0.00055 409.36%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 2.4 0.0012 mg/L 0.00214 0.0012 mg/L 0.00214 180.11%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 5.5 0.0006 mg/L 0.00014 0.0006 mg/L 0.00014 22.43%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 2.3 0.0001 mg/L 0.00050 0.0001 mg/L 0.00050 407.34%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 12.1 0.0010 mg/L 0.00551 0.0010 mg/L 0.00551 547.82%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 772.7 0.0035 mg/L 0.00042 0.0035 mg/L 0.00042 12.21%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -51.4 -0.0008 mg/L 0.00005 -0.0008 mg/L 0.00005 6.41%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -54.3 -0.0001 mg/L 0.00020 -0.0001 mg/L 0.00020 169.65%
 All analyte(s) passed QC.

===== SEE RERUN- JLC 04/18/24 =====

Sequence No.: 54

Sample ID: 24D0735-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 68

Date Collected: 4/17/2024 3:39:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5280473.1	96.10 %	%	0.311			0.32%
Y radial	200858.1	104.5 %	%	0.50			0.48%
Ag 328.068†	323.9	0.0009 mg/L	mg/L	0.00015	0.0009 mg/L	0.00015	16.98%
Al 396.153†	52.0	0.0136 mg/L	mg/L	0.00100	0.0136 mg/L	0.00100	7.32%
As 188.979†	-19.9	-0.0043 mg/L	mg/L	0.00080	-0.0043 mg/L	0.00080	18.36%
B 208.889†	-943.8	-0.0504 mg/L	mg/L	0.00079	-0.0504 mg/L	0.00079	1.57%
Ba 233.527†	5882.6	0.0343 mg/L	mg/L	0.00016	0.0343 mg/L	0.00016	0.47%
Be 313.107†	-32.7	-0.0001 mg/L	mg/L	0.00002	-0.0001 mg/L	0.00002	24.21%
Ca 317.933†	165938.5	23.87 mg/L	mg/L	0.079	23.87 mg/L	0.079	0.33%
Cd 228.802†	2.7	0.0002 mg/L	mg/L	0.00001	0.0002 mg/L	0.00001	3.94%
Co 228.616†	704.7	0.0070 mg/L	mg/L	0.00011	0.0070 mg/L	0.00011	1.59%
Cr 267.716†	150.3	0.0006 mg/L	mg/L	0.00001	0.0006 mg/L	0.00001	1.73%
Cu 327.393†	-469.5	-0.0026 mg/L	mg/L	0.00038	-0.0026 mg/L	0.00038	14.39%
Fe 238.204†	8733.8	3.677 mg/L	mg/L	0.0163	3.677 mg/L	0.0163	0.44%
K 766.490†	8213.4	2.481 mg/L	mg/L	0.0268	2.481 mg/L	0.0268	1.08%
Mg 285.213†	34712.5	4.035 mg/L	mg/L	0.0193	4.035 mg/L	0.0193	0.48%
Mn 257.610†	32822.1	1.314 mg/L	mg/L	0.0063	1.314 mg/L	0.0063	0.48%
Mo 202.031†	16.1	0.0006 mg/L	mg/L	0.00011	0.0006 mg/L	0.00011	17.63%
Na 589.592†	160645.3	13.21 mg/L	mg/L	0.043	13.21 mg/L	0.043	0.32%
Ni 231.604†	59.3	0.0015 mg/L	mg/L	0.00012	0.0015 mg/L	0.00012	7.75%
Pb 220.353†	23.0	0.0016 mg/L	mg/L	0.00047	0.0016 mg/L	0.00047	29.10%
Sb 206.836†	17.0	0.0027 mg/L	mg/L	0.00080	0.0027 mg/L	0.00080	29.48%
Se 196.026†	6.6	-0.0002 mg/L	mg/L	0.00369	-0.0002 mg/L	0.00369	>999.9%
Sn 189.927†	-193.6	-0.0225 mg/L	mg/L	0.00070	-0.0225 mg/L	0.00070	3.11%
Ti 337.279†	20.3	0.0011 mg/L	mg/L	0.00027	0.0011 mg/L	0.00027	25.10%
Tl 351.924†	-49.4	-0.0018 mg/L	mg/L	0.00375	-0.0018 mg/L	0.00375	209.76%

V 290.880†	770.8	0.0032 mg/L	0.00037	0.0032 mg/L	0.00037	11.51%
Zn 206.200†	104.8	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	111.77%
Zr 343.823†	130.8	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	8.73%

Sequence No.: 55
Sample ID: 24D0735-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 69
Date Collected: 4/17/2024 3:45:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

SEE RERUN- JLC 04/18/24

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5304953.5	96.55 %		0.115			0.12%
Y radial	199125.2	103.6 %		0.96			0.93%
Ag 328.068†	321.2	0.0011 mg/L		0.00020	0.0011 mg/L	0.00020	18.38%
Al 396.153†	166.8	0.0431 mg/L		0.00194	0.0431 mg/L	0.00194	4.51%
As 188.979†	-16.9	-0.0049 mg/L		0.00201	-0.0049 mg/L	0.00201	41.12%
B 208.889†	-1465.5	-0.0782 mg/L		0.00015	-0.0782 mg/L	0.00015	0.20%
Ba 233.527†	5555.6	0.0328 mg/L		0.00010	0.0328 mg/L	0.00010	0.32%
Be 313.107†	-33.4	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	12.28%
Ca 317.933†	61876.6	8.900 mg/L		0.0334	8.900 mg/L	0.0334	0.38%
Cd 228.802†	85.7	0.0009 mg/L		0.00009	0.0009 mg/L	0.00009	10.17%
Co 228.616†	36.1	0.0004 mg/L		0.00005	0.0004 mg/L	0.00005	15.00%
Cr 267.716†	2367.7	0.0181 mg/L		0.00004	0.0181 mg/L	0.00004	0.19%
Cu 327.393†	-290.1	-0.0016 mg/L		0.00022	-0.0016 mg/L	0.00022	13.81%
Fe 238.204†	266.6	0.1123 mg/L		0.00077	0.1123 mg/L	0.00077	0.68%
K 766.490†	4884.7	1.475 mg/L		0.0139	1.475 mg/L	0.0139	0.94%
Mg 285.213†	12574.0	1.461 mg/L		0.0018	1.461 mg/L	0.0018	0.12%
Mn 257.610†	514.8	0.0206 mg/L		0.00008	0.0206 mg/L	0.00008	0.40%
Mo 202.031†	13.3	0.0005 mg/L		0.00029	0.0005 mg/L	0.00029	54.59%
Na 589.592†	135862.1	11.17 mg/L		0.038	11.17 mg/L	0.038	0.34%
Ni 231.604†	23.1	0.0006 mg/L		0.00012	0.0006 mg/L	0.00012	20.61%
Pb 220.353†	5.7	0.0005 mg/L		0.00016	0.0005 mg/L	0.00016	33.16%
Sb 206.836†	11.8	0.0015 mg/L		0.00072	0.0015 mg/L	0.00072	49.56%
Se 196.026†	5.0	0.0013 mg/L		0.00188	0.0013 mg/L	0.00188	149.91%
Sn 189.927†	-90.2	-0.0105 mg/L		0.00080	-0.0105 mg/L	0.00080	7.64%
Ti 337.279†	32.9	0.0017 mg/L		0.00022	0.0017 mg/L	0.00022	12.48%
Tl 351.924†	78.1	0.0066 mg/L		0.00414	0.0066 mg/L	0.00414	62.47%
V 290.880†	583.0	0.0026 mg/L		0.00013	0.0026 mg/L	0.00013	4.79%
Zn 206.200†	218.9	0.0022 mg/L		0.00005	0.0022 mg/L	0.00005	2.32%
Zr 343.823†	1067.3	0.0024 mg/L		0.00404	0.0024 mg/L	0.00404	170.48%

Sequence No.: 56
Sample ID: 24D0735-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 70
Date Collected: 4/17/2024 3:51:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5206067.6	94.75 %		0.242			0.26%
Y radial	197766.2	102.9 %		0.53			0.52%
Ag 328.068†	106.2	0.0004 mg/L		0.00017	0.0004 mg/L	0.00017	39.68%
Al 396.153†	3620.4	0.9368 mg/L		0.01065	0.9368 mg/L	0.01065	1.14%
As 188.979†	-22.6	-0.0041 mg/L		0.00125	-0.0041 mg/L	0.00125	30.80%
B 208.889†	-1512.5	-0.0808 mg/L		0.00061	-0.0808 mg/L	0.00061	0.76%
Ba 233.527†	8776.6	0.0511 mg/L		0.00051	0.0511 mg/L	0.00051	1.00%
Be 313.107†	12.6	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	121.45%
Ca 317.933†	218787.5	31.47 mg/L		0.043	31.47 mg/L	0.043	0.14%
Cd 228.802†	60562.7	0.5320 mg/L		0.00541	0.5320 mg/L	0.00541	1.02%
Co 228.616†	648.8	0.0063 mg/L		0.00009	0.0063 mg/L	0.00009	1.49%
Cr 267.716†	524.9	0.0041 mg/L		0.00002	0.0041 mg/L	0.00002	0.47%

Cu 327.393†	6672.1	0.0375 mg/L	0.00043	0.0375 mg/L	0.00043	1.14%
Fe 238.204†	12737.6	5.362 mg/L	0.0333	5.362 mg/L	0.0333	0.62%
K 766.490†	11471.5	3.465 mg/L	0.0285	3.465 mg/L	0.0285	0.82%
Mg 285.213†	46608.9	5.419 mg/L	0.0123	5.419 mg/L	0.0123	0.23%
Mn 257.610†	7592.2	0.3042 mg/L	0.00205	0.3042 mg/L	0.00205	0.68%
Mo 202.031†	34.9	0.0014 mg/L	0.00012	0.0014 mg/L	0.00012	8.74%
Na 589.592†	638050.1	52.47 mg/L	0.266	52.47 mg/L	0.266	0.51%
Ni 231.604†	310.8	0.0078 mg/L	0.00021	0.0078 mg/L	0.00021	2.72%
Pb 220.353†	186.8	0.0149 mg/L	0.00028	0.0149 mg/L	0.00028	1.88%
Sb 206.836†	23.0	0.0037 mg/L	0.00169	0.0037 mg/L	0.00169	45.93%
Se 196.026†	4.9	-0.0018 mg/L	0.00388	-0.0018 mg/L	0.00388	220.31%
Sn 189.927†	-223.3	-0.0260 mg/L	0.00103	-0.0260 mg/L	0.00103	3.96%
Ti 337.279†	831.1	0.0439 mg/L	0.00149	0.0439 mg/L	0.00149	3.41%
Tl 351.924†	-2.6	0.0031 mg/L	0.00317	0.0031 mg/L	0.00317	102.76%
V 290.880†	1880.0	0.0081 mg/L	0.00035	0.0081 mg/L	0.00035	4.28%
Zn 206.200†	8486.4	0.1129 mg/L	0.00141	0.1129 mg/L	0.00141	1.25%
Zr 343.823†	370.1	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	30.39%

User canceled analysis.

SEE RERUN- JLC 04/18/24

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Analysis Begun

Start Time: 4/17/2024 3:56:21 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/17/2024 3:56:22 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

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Analysis Begun

Start Time: 4/17/2024 3:58:27 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 52

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/17/2024 3:58:27 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5240216.2	95.37 %	0.818			0.86%
Y radial	196462.0	102.3 %	0.56			0.54%
Ag 328.068†	712674.9	2.379 mg/L	0.0104	2.379 mg/L	0.0104	0.44%
QC value within limits for Ag 328.068		Recovery = 95.17%				
Al 396.153†	37732.9	9.507 mg/L	0.0150	9.507 mg/L	0.0150	0.16%
QC value within limits for Al 396.153		Recovery = 95.07%				
As 188.979†	15984.0	4.778 mg/L	0.0574	4.778 mg/L	0.0574	1.20%
QC value within limits for As 188.979		Recovery = 95.56%				
B 208.889†	88055.7	4.457 mg/L	0.0153	4.457 mg/L	0.0153	0.34%
QC value less than the lower limit for B 208.889		Recovery = 89.13%				
Ba 233.527†	816785.4	4.831 mg/L	0.0215	4.831 mg/L	0.0215	0.45%
QC value within limits for Ba 233.527		Recovery = 96.62%				
Be 313.107†	2089643.8	4.711 mg/L	0.0337	4.711 mg/L	0.0337	0.72%
QC value within limits for Be 313.107		Recovery = 94.21%				
Ca 317.933†	64456.9	9.272 mg/L	0.0183	9.272 mg/L	0.0183	0.20%
QC value within limits for Ca 317.933		Recovery = 92.72%				
Cd 228.802†	553733.1	4.775 mg/L	0.0255	4.775 mg/L	0.0255	0.53%
QC value within limits for Cd 228.802		Recovery = 95.50%				
Co 228.616†	486955.0	4.819 mg/L	0.0225	4.819 mg/L	0.0225	0.47%
QC value within limits for Co 228.616		Recovery = 96.37%				
Cr 267.716†	630164.6	4.822 mg/L	0.0197	4.822 mg/L	0.0197	0.41%
QC value within limits for Cr 267.716		Recovery = 96.45%				
Cu 327.393†	855693.2	4.828 mg/L	0.0179	4.828 mg/L	0.0179	0.37%
QC value within limits for Cu 327.393		Recovery = 96.56%				

Fe 238.204†	11077.7	4.689 mg/L	0.0224	4.689 mg/L	0.0224	0.48%
QC value within limits for Fe 238.204 Recovery = 93.78%						
K 766.490†	30541.6	9.226 mg/L	0.0371	9.226 mg/L	0.0371	0.40%
QC value within limits for K 766.490 Recovery = 92.26%						
Mg 285.213†	80472.1	9.340 mg/L	0.0324	9.340 mg/L	0.0324	0.35%
QC value within limits for Mg 285.213 Recovery = 93.40%						
Mn 257.610†	117168.8	4.689 mg/L	0.0080	4.689 mg/L	0.0080	0.17%
QC value within limits for Mn 257.610 Recovery = 93.78%						
Mo 202.031†	120695.9	4.794 mg/L	0.0183	4.794 mg/L	0.0183	0.38%
QC value within limits for Mo 202.031 Recovery = 95.87%						
Na 589.592†	109208.5	8.981 mg/L	0.0855	8.981 mg/L	0.0855	0.95%
QC value less than the lower limit for Na 589.592 Recovery = 89.81%						
Ni 231.604†	193412.2	4.853 mg/L	0.0161	4.853 mg/L	0.0161	0.33%
QC value within limits for Ni 231.604 Recovery = 97.05%						
Pb 220.353†	60324.1	4.850 mg/L	0.0522	4.850 mg/L	0.0522	1.08%
QC value within limits for Pb 220.353 Recovery = 97.00%						
Sb 206.836†	30410.0	4.747 mg/L	0.0630	4.747 mg/L	0.0630	1.33%
QC value within limits for Sb 206.836 Recovery = 94.94%						
Se 196.026†	9640.3	4.792 mg/L	0.0646	4.792 mg/L	0.0646	1.35%
QC value within limits for Se 196.026 Recovery = 95.85%						
Sn 189.927†	41306.9	4.795 mg/L	0.0505	4.795 mg/L	0.0505	1.05%
QC value within limits for Sn 189.927 Recovery = 95.90%						
Ti 337.279†	88903.3	4.689 mg/L	0.0213	4.689 mg/L	0.0213	0.45%
QC value within limits for Ti 337.279 Recovery = 93.78%						
Tl 351.924†	28698.9	2.377 mg/L	0.0340	2.377 mg/L	0.0340	1.43%
QC value within limits for Tl 351.924 Recovery = 95.10%						
V 290.880†	1059393.0	4.767 mg/L	0.0190	4.767 mg/L	0.0190	0.40%
QC value within limits for V 290.880 Recovery = 95.34%						
Zn 206.200†	350114.3	4.879 mg/L	0.0250	4.879 mg/L	0.0250	0.51%
QC value within limits for Zn 206.200 Recovery = 97.59%						
Zr 343.823†	2157311.3	4.792 mg/L	0.0163	4.792 mg/L	0.0163	0.34%
QC Failed. Continue with analysis.						

Sequence No.: 53

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 4:04:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5444322.6	99.08 %	1.914			1.93%
Y radial	202897.9	105.6 %	1.02			0.97%
Ag 328.068†	272.8	0.0009 mg/L	0.00019	0.0009 mg/L	0.00019	20.71%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-17.0	-0.0044 mg/L	0.00177	-0.0044 mg/L	0.00177	40.05%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-4.4	-0.0013 mg/L	0.00145	-0.0013 mg/L	0.00145	113.37%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2074.0	-0.1107 mg/L	0.00075	-0.1107 mg/L	0.00075	0.68%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	3.5	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	261.60%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-64.0	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	13.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	0.9	0.0001 mg/L	0.00398	0.0001 mg/L	0.00398	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-12.3	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	78.14%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	22.8	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	26.67%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.3	-0.0000 mg/L	0.00012	-0.0000 mg/L	0.00012	469.61%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-753.9	-0.0042 mg/L	0.00032	-0.0042 mg/L	0.00032	7.49%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	10.5	0.0044 mg/L	0.00070	0.0044 mg/L	0.00070	15.82%

QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† 82.1 0.0248 mg/L 0.02608 0.0248 mg/L 0.02608 105.21%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 11.8 0.0014 mg/L 0.00008 0.0014 mg/L 0.00008 5.46%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† -2.7 -0.0001 mg/L 0.00014 -0.0001 mg/L 0.00014 133.13%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 20.8 0.0008 mg/L 0.00009 0.0008 mg/L 0.00009 10.73%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 2706.3 0.2226 mg/L 0.00584 0.2226 mg/L 0.00584 2.62%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† -6.3 -0.0002 mg/L 0.00013 -0.0002 mg/L 0.00013 78.57%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 5.3 0.0004 mg/L 0.00033 0.0004 mg/L 0.00033 76.47%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 3.2 0.0005 mg/L 0.00031 0.0005 mg/L 0.00031 60.63%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 2.5 0.0012 mg/L 0.00091 0.0012 mg/L 0.00091 73.63%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 4.2 0.0005 mg/L 0.00009 0.0005 mg/L 0.00009 18.50%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -6.4 -0.0003 mg/L 0.00013 -0.0003 mg/L 0.00013 37.62%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 45.5 0.0038 mg/L 0.00418 0.0038 mg/L 0.00418 109.19%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 183.8 0.0008 mg/L 0.00083 0.0008 mg/L 0.00083 100.06%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -72.9 -0.0010 mg/L 0.00003 -0.0010 mg/L 0.00003 3.23%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -35.7 -0.0001 mg/L 0.00008 -0.0001 mg/L 0.00008 98.32%
 All analyte(s) passed QC.

Sequence No.: 54

Sample ID: 24D0735-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 68

Date Collected: 4/17/2024 4:09:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5301473.5	96.49 %	%	0.996			1.03%
Y radial	199920.7	104.1 %	%	0.87			0.84%
Ag 328.068†	199.8	0.0004 mg/L	mg/L	0.00038	0.0004 mg/L	0.00038	85.18%
Al 396.153†	57.5	0.0150 mg/L	mg/L	0.00061	0.0150 mg/L	0.00061	4.05%
As 188.979†	-22.8	-0.0052 mg/L	mg/L	0.00068	-0.0052 mg/L	0.00068	12.95%
B 208.889†	-1034.7	-0.0552 mg/L	mg/L	0.00068	-0.0552 mg/L	0.00068	1.23%
Ba 233.527†	5872.9	0.0342 mg/L	mg/L	0.00031	0.0342 mg/L	0.00031	0.91%
Be 313.107†	-6.1	-0.0000 mg/L	mg/L	0.00002	-0.0000 mg/L	0.00002	66.05%
Ca 317.933†	165755.4	23.84 mg/L	mg/L	0.092	23.84 mg/L	0.092	0.38%
Cd 228.802†	12.1	0.0003 mg/L	mg/L	0.00006	0.0003 mg/L	0.00006	17.51%
Co 228.616†	701.5	0.0069 mg/L	mg/L	0.00007	0.0069 mg/L	0.00007	1.00%
Cr 267.716†	143.2	0.0005 mg/L	mg/L	0.00007	0.0005 mg/L	0.00007	13.97%
Cu 327.393†	-563.7	-0.0032 mg/L	mg/L	0.00036	-0.0032 mg/L	0.00036	11.30%
Fe 238.204†	8698.9	3.662 mg/L	mg/L	0.0349	3.662 mg/L	0.0349	0.95%
K 766.490†	8386.9	2.533 mg/L	mg/L	0.0282	2.533 mg/L	0.0282	1.11%
Mg 285.213†	34731.8	4.038 mg/L	mg/L	0.0377	4.038 mg/L	0.0377	0.93%
Mn 257.610†	32906.7	1.317 mg/L	mg/L	0.0101	1.317 mg/L	0.0101	0.77%
Mo 202.031†	16.1	0.0006 mg/L	mg/L	0.00010	0.0006 mg/L	0.00010	15.78%
Na 589.592†	172593.4	14.19 mg/L	mg/L	0.054	14.19 mg/L	0.054	0.38%
Ni 231.604†	50.2	0.0013 mg/L	mg/L	0.00035	0.0013 mg/L	0.00035	27.81%
Pb 220.353†	27.7	0.0020 mg/L	mg/L	0.00036	0.0020 mg/L	0.00036	17.76%
Sb 206.836†	11.1	0.0018 mg/L	mg/L	0.00091	0.0018 mg/L	0.00091	50.80%
Se 196.026†	6.1	-0.0005 mg/L	mg/L	0.00300	-0.0005 mg/L	0.00300	613.26%
Sn 189.927†	-188.6	-0.0219 mg/L	mg/L	0.00084	-0.0219 mg/L	0.00084	3.85%
Ti 337.279†	24.5	0.0013 mg/L	mg/L	0.00024	0.0013 mg/L	0.00024	18.45%
Tl 351.924†	-38.0	-0.0008 mg/L	mg/L	0.00498	-0.0008 mg/L	0.00498	592.97%

V 290.880†	589.5	0.0024 mg/L	0.00019	0.0024 mg/L	0.00019	8.10%
Zn 206.200†	60.7	-0.0006 mg/L	0.00005	-0.0006 mg/L	0.00005	8.10%
Zr 343.823†	120.4	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	24.88%

Sequence No.: 55
Sample ID: 24D0735-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 69
Date Collected: 4/17/2024 4:15:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5415425.6	98.56 %		1.774			1.80%
Y radial	199613.9	103.9 %		1.28			1.24%
Ag 328.068†	269.5	0.0009 mg/L		0.00031	0.0009 mg/L	0.00031	34.02%
Al 396.153†	163.7	0.0423 mg/L		0.00175	0.0423 mg/L	0.00175	4.14%
As 188.979†	-11.9	-0.0034 mg/L		0.00280	-0.0034 mg/L	0.00280	82.78%
B 208.889†	-1569.7	-0.0838 mg/L		0.00080	-0.0838 mg/L	0.00080	0.95%
Ba 233.527†	5454.4	0.0322 mg/L		0.00055	0.0322 mg/L	0.00055	1.70%
Be 313.107†	-30.7	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	43.60%
Ca 317.933†	61443.0	8.838 mg/L		0.0862	8.838 mg/L	0.0862	0.98%
Cd 228.802†	82.3	0.0008 mg/L		0.00006	0.0008 mg/L	0.00006	7.73%
Co 228.616†	33.5	0.0003 mg/L		0.00007	0.0003 mg/L	0.00007	20.01%
Cr 267.716†	2307.7	0.0176 mg/L		0.00038	0.0176 mg/L	0.00038	2.16%
Cu 327.393†	-501.5	-0.0028 mg/L		0.00014	-0.0028 mg/L	0.00014	5.02%
Fe 238.204†	266.0	0.1120 mg/L		0.00158	0.1120 mg/L	0.00158	1.41%
K 766.490†	4821.9	1.457 mg/L		0.0098	1.457 mg/L	0.0098	0.67%
Mg 285.213†	12574.0	1.461 mg/L		0.0109	1.461 mg/L	0.0109	0.75%
Mn 257.610†	516.7	0.0207 mg/L		0.00047	0.0207 mg/L	0.00047	2.26%
Mo 202.031†	11.5	0.0005 mg/L		0.00016	0.0005 mg/L	0.00016	36.02%
Na 589.592†	136199.6	11.20 mg/L		0.053	11.20 mg/L	0.053	0.48%
Ni 231.604†	18.8	0.0005 mg/L		0.00012	0.0005 mg/L	0.00012	26.18%
Pb 220.353†	4.9	0.0004 mg/L		0.00071	0.0004 mg/L	0.00071	177.74%
Sb 206.836†	9.1	0.0010 mg/L		0.00077	0.0010 mg/L	0.00077	73.51%
Se 196.026†	4.8	0.0012 mg/L		0.00205	0.0012 mg/L	0.00205	176.85%
Sn 189.927†	-88.8	-0.0103 mg/L		0.00054	-0.0103 mg/L	0.00054	5.26%
Ti 337.279†	33.4	0.0018 mg/L		0.00036	0.0018 mg/L	0.00036	20.70%
Tl 351.924†	66.4	0.0056 mg/L		0.00396	0.0056 mg/L	0.00396	70.04%
V 290.880†	527.6	0.0024 mg/L		0.00085	0.0024 mg/L	0.00085	35.73%
Zn 206.200†	170.6	0.0015 mg/L		0.00004	0.0015 mg/L	0.00004	2.69%
Zr 343.823†	6.4	0.0000 mg/L		0.00012	0.0000 mg/L	0.00012	>999.9%

Sequence No.: 56
Sample ID: 24D0735-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 70
Date Collected: 4/17/2024 4:20:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5198803.3	94.62 %		1.354			1.43%
Y radial	201403.5	104.8 %		1.01			0.96%
Ag 328.068†	146.7	0.0006 mg/L		0.00028	0.0006 mg/L	0.00028	49.07%
Al 396.153†	3747.8	0.9698 mg/L		0.00797	0.9698 mg/L	0.00797	0.82%
As 188.979†	-30.7	-0.0064 mg/L		0.00098	-0.0064 mg/L	0.00098	15.33%
B 208.889†	-1576.2	-0.0841 mg/L		0.00095	-0.0841 mg/L	0.00095	1.13%
Ba 233.527†	8829.6	0.0514 mg/L		0.00084	0.0514 mg/L	0.00084	1.63%
Be 313.107†	-68.0	-0.0002 mg/L		0.00004	-0.0002 mg/L	0.00004	21.47%
Ca 317.933†	217319.4	31.26 mg/L		0.192	31.26 mg/L	0.192	0.61%
Cd 228.802†	61306.4	0.5385 mg/L		0.00627	0.5385 mg/L	0.00627	1.16%
Co 228.616†	656.0	0.0064 mg/L		0.00011	0.0064 mg/L	0.00011	1.75%
Cr 267.716†	544.1	0.0042 mg/L		0.00020	0.0042 mg/L	0.00020	4.83%

Cu 327.393†	6567.1	0.0369 mg/L	0.00054	0.0369 mg/L	0.00054	1.47%
Fe 238.204†	13064.4	5.500 mg/L	0.0530	5.500 mg/L	0.0530	0.96%
K 766.490†	10819.1	3.268 mg/L	0.0295	3.268 mg/L	0.0295	0.90%
Mg 285.213†	46667.7	5.426 mg/L	0.0356	5.426 mg/L	0.0356	0.66%
Mn 257.610†	7682.4	0.3079 mg/L	0.00301	0.3079 mg/L	0.00301	0.98%
Mo 202.031†	28.8	0.0011 mg/L	0.00016	0.0011 mg/L	0.00016	14.18%
Na 589.592†	558102.7	45.90 mg/L	0.309	45.90 mg/L	0.309	0.67%
Ni 231.604†	312.1	0.0078 mg/L	0.00016	0.0078 mg/L	0.00016	2.03%
Pb 220.353†	189.2	0.0151 mg/L	0.00074	0.0151 mg/L	0.00074	4.88%
Sb 206.836†	21.1	0.0034 mg/L	0.00093	0.0034 mg/L	0.00093	27.37%
Se 196.026†	6.8	-0.0008 mg/L	0.00231	-0.0008 mg/L	0.00231	278.34%
Sn 189.927†	-224.9	-0.0261 mg/L	0.00085	-0.0261 mg/L	0.00085	3.26%
Ti 337.279†	859.2	0.0453 mg/L	0.00092	0.0453 mg/L	0.00092	2.04%
Tl 351.924†	-18.5	0.0018 mg/L	0.01015	0.0018 mg/L	0.01015	557.97%
V 290.880†	2158.4	0.0093 mg/L	0.00085	0.0093 mg/L	0.00085	9.12%
Zn 206.200†	8594.4	0.1149 mg/L	0.00114	0.1149 mg/L	0.00114	0.99%
Zr 343.823†	505.6	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	26.03%

Sequence No.: 57

Sample ID: 24D0735-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 71

Date Collected: 4/17/2024 4:26:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5477735.9	99.69	%	0.693				0.70%
Y radial	201760.4	105.0	%	1.28				1.21%
Ag 328.068†	396.9	0.0014	mg/L	0.00015	0.0014	mg/L	0.00015	10.74%
Al 396.153†	1087.4	0.2813	mg/L	0.01268	0.2813	mg/L	0.01268	4.51%
As 188.979†	-16.5	-0.0046	mg/L	0.00070	-0.0046	mg/L	0.00070	15.35%
B 208.889†	-1621.7	-0.0865	mg/L	0.00088	-0.0865	mg/L	0.00088	1.02%
Ba 233.527†	2323.5	0.0137	mg/L	0.00009	0.0137	mg/L	0.00009	0.64%
Be 313.107†	-29.6	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.50%
Ca 317.933†	53487.1	7.694	mg/L	0.0692	7.694	mg/L	0.0692	0.90%
Cd 228.802†	-3.8	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	57.05%
Co 228.616†	47.6	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	20.44%
Cr 267.716†	138.2	0.0011	mg/L	0.00016	0.0011	mg/L	0.00016	14.88%
Cu 327.393†	-631.2	-0.0035	mg/L	0.00005	-0.0035	mg/L	0.00005	1.45%
Fe 238.204†	862.1	0.3629	mg/L	0.00475	0.3629	mg/L	0.00475	1.31%
K 766.490†	4957.7	1.498	mg/L	0.0105	1.498	mg/L	0.0105	0.70%
Mg 285.213†	11365.2	1.321	mg/L	0.0063	1.321	mg/L	0.0063	0.48%
Mn 257.610†	415.9	0.0167	mg/L	0.00040	0.0167	mg/L	0.00040	2.39%
Mo 202.031†	5.5	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	50.67%
Na 589.592†	143568.4	11.81	mg/L	0.103	11.81	mg/L	0.103	0.87%
Ni 231.604†	28.7	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015	20.18%
Pb 220.353†	5.5	0.0005	mg/L	0.00065	0.0005	mg/L	0.00065	139.69%
Sb 206.836†	8.9	0.0014	mg/L	0.00052	0.0014	mg/L	0.00052	38.23%
Se 196.026†	4.5	0.0012	mg/L	0.00111	0.0012	mg/L	0.00111	95.61%
Sn 189.927†	-77.1	-0.0090	mg/L	0.00037	-0.0090	mg/L	0.00037	4.16%
Ti 337.279†	199.5	0.0105	mg/L	0.00043	0.0105	mg/L	0.00043	4.10%
Tl 351.924†	11.1	0.0011	mg/L	0.00288	0.0011	mg/L	0.00288	255.78%
V 290.880†	600.5	0.0027	mg/L	0.00035	0.0027	mg/L	0.00035	13.02%
Zn 206.200†	113.5	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	8.74%
Zr 343.823†	23.4	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	358.88%

Sequence No.: 58

Sample ID: 24D0735-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 72

Date Collected: 4/17/2024 4:31:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5243203.7	95.42	%	0.663			0.70%
Y radial	201536.2	104.9	%	1.43			1.37%
Ag 328.068†	168.4	0.0005	mg/L	0.00017	0.0005 mg/L	0.00017	32.32%
Al 396.153†	1273.9	0.3295	mg/L	0.00569	0.3295 mg/L	0.00569	1.73%
As 188.979†	-27.1	-0.0068	mg/L	0.00318	-0.0068 mg/L	0.00318	46.97%
B 208.889†	-1054.5	-0.0563	mg/L	0.00020	-0.0563 mg/L	0.00020	0.36%
Ba 233.527†	3971.0	0.0234	mg/L	0.00012	0.0234 mg/L	0.00012	0.51%
Be 313.107†	-44.4	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	13.93%
Ca 317.933†	369459.6	53.14	mg/L	0.444	53.14 mg/L	0.444	0.84%
Cd 228.802†	5520.5	0.0487	mg/L	0.00035	0.0487 mg/L	0.00035	0.72%
Co 228.616†	90.1	0.0009	mg/L	0.00004	0.0009 mg/L	0.00004	4.81%
Cr 267.716†	245.7	0.0018	mg/L	0.00004	0.0018 mg/L	0.00004	2.11%
Cu 327.393†	-334.6	-0.0019	mg/L	0.00010	-0.0019 mg/L	0.00010	5.46%
Fe 238.204†	703.8	0.2963	mg/L	0.00239	0.2963 mg/L	0.00239	0.81%
K 766.490†	18777.5	5.672	mg/L	0.0386	5.672 mg/L	0.0386	0.68%
Mg 285.213†	49098.0	5.698	mg/L	0.0208	5.698 mg/L	0.0208	0.36%
Mn 257.610†	5174.7	0.2071	mg/L	0.00288	0.2071 mg/L	0.00288	1.39%
Mo 202.031†	29.7	0.0012	mg/L	0.00020	0.0012 mg/L	0.00020	16.52%
Na 589.592†	240638.4	19.79	mg/L	0.126	19.79 mg/L	0.126	0.64%
Ni 231.604†	88.0	0.0022	mg/L	0.00002	0.0022 mg/L	0.00002	0.91%
Pb 220.353†	33.0	0.0027	mg/L	0.00049	0.0027 mg/L	0.00049	18.24%
Sb 206.836†	20.3	0.0030	mg/L	0.00031	0.0030 mg/L	0.00031	10.18%
Se 196.026†	-0.1	-0.0067	mg/L	0.00177	-0.0067 mg/L	0.00177	26.52%
Sn 189.927†	-273.0	-0.0317	mg/L	0.00054	-0.0317 mg/L	0.00054	1.71%
Ti 337.279†	222.2	0.0117	mg/L	0.00096	0.0117 mg/L	0.00096	8.21%
Tl 351.924†	13.8	0.0013	mg/L	0.00436	0.0013 mg/L	0.00436	336.25%
V 290.880†	914.9	0.0041	mg/L	0.00036	0.0041 mg/L	0.00036	8.71%
Zn 206.200†	171.2	0.0007	mg/L	0.00006	0.0007 mg/L	0.00006	9.44%
Zr 343.823†	225.7	0.0005	mg/L	0.00016	0.0005 mg/L	0.00016	32.58%

Sequence No.: 59

Sample ID: 24D0735-09

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 73

Date Collected: 4/17/2024 4:37:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-09

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5250711.7	95.56	%	1.067			1.12%
Y radial	202304.6	105.3	%	0.15			0.14%
Ag 328.068†	274.8	0.0009	mg/L	0.00026	0.0009 mg/L	0.00026	27.49%
Al 396.153†	767.1	0.1985	mg/L	0.00103	0.1985 mg/L	0.00103	0.52%
As 188.979†	-21.8	-0.0055	mg/L	0.00251	-0.0055 mg/L	0.00251	45.83%
B 208.889†	-1644.1	-0.0878	mg/L	0.00067	-0.0878 mg/L	0.00067	0.76%
Ba 233.527†	2710.5	0.0158	mg/L	0.00023	0.0158 mg/L	0.00023	1.47%
Be 313.107†	-24.4	-0.0001	mg/L	0.00001	-0.0001 mg/L	0.00001	10.83%
Ca 317.933†	191905.7	27.60	mg/L	0.101	27.60 mg/L	0.101	0.37%
Cd 228.802†	525.6	0.0048	mg/L	0.00011	0.0048 mg/L	0.00011	2.39%
Co 228.616†	59.0	0.0006	mg/L	0.00005	0.0006 mg/L	0.00005	9.46%
Cr 267.716†	183.5	0.0014	mg/L	0.00001	0.0014 mg/L	0.00001	1.01%
Cu 327.393†	3741.5	0.0210	mg/L	0.00032	0.0210 mg/L	0.00032	1.52%
Fe 238.204†	3304.7	1.391	mg/L	0.0019	1.391 mg/L	0.0019	0.14%
K 766.490†	13275.8	4.010	mg/L	0.0105	4.010 mg/L	0.0105	0.26%
Mg 285.213†	43511.9	5.056	mg/L	0.0124	5.056 mg/L	0.0124	0.25%
Mn 257.610†	3244.8	0.1300	mg/L	0.00027	0.1300 mg/L	0.00027	0.20%
Mo 202.031†	28.1	0.0011	mg/L	0.00020	0.0011 mg/L	0.00020	17.62%
Na 589.592†	404369.5	33.26	mg/L	0.041	33.26 mg/L	0.041	0.12%
Ni 231.604†	66.2	0.0017	mg/L	0.00028	0.0017 mg/L	0.00028	16.67%
Pb 220.353†	26.4	0.0021	mg/L	0.00017	0.0021 mg/L	0.00017	8.41%
Sb 206.836†	11.6	0.0017	mg/L	0.00033	0.0017 mg/L	0.00033	19.19%
Se 196.026†	5.8	-0.0010	mg/L	0.00249	-0.0010 mg/L	0.00249	258.60%
Sn 189.927†	-218.5	-0.0254	mg/L	0.00016	-0.0254 mg/L	0.00016	0.64%
Ti 337.279†	95.1	0.0050	mg/L	0.00033	0.0050 mg/L	0.00033	6.59%
Tl 351.924†	8.5	0.0016	mg/L	0.00239	0.0016 mg/L	0.00239	151.48%

V 290.880†	1423.4	0.0063 mg/L	0.00035	0.0063 mg/L	0.00035	5.57%
Zn 206.200†	860.3	0.0090 mg/L	0.00014	0.0090 mg/L	0.00014	1.54%
Zr 343.823†	211.9	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	31.04%

Sequence No.: 60

Sample ID: 24D0735-10

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 74

Date Collected: 4/17/2024 4:42:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	5404765.9	98.36 %		1.472			1.50%
Y radial	202571.2	105.4 %		1.12			1.06%
Ag 328.068†	305.1	0.0011 mg/L		0.00022	0.0011 mg/L	0.00022	19.61%
Al 396.153†	6150.0	1.591 mg/L		0.0201	1.591 mg/L	0.0201	1.26%
As 188.979†	-9.4	-0.0008 mg/L		0.00090	-0.0008 mg/L	0.00090	115.17%
B 208.889†	-2116.1	-0.1129 mg/L		0.00059	-0.1129 mg/L	0.00059	0.52%
Ba 233.527†	5324.0	0.0310 mg/L		0.00050	0.0310 mg/L	0.00050	1.62%
Be 313.107†	-6.5	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	57.70%
Ca 317.933†	54391.0	7.824 mg/L		0.0360	7.824 mg/L	0.0360	0.46%
Cd 228.802†	346.4	0.0031 mg/L		0.00012	0.0031 mg/L	0.00012	3.70%
Co 228.616†	226.1	0.0021 mg/L		0.00009	0.0021 mg/L	0.00009	4.40%
Cr 267.716†	965.0	0.0074 mg/L		0.00016	0.0074 mg/L	0.00016	2.16%
Cu 327.393†	4869.5	0.0274 mg/L		0.00069	0.0274 mg/L	0.00069	2.53%
Fe 238.204†	8408.8	3.540 mg/L		0.0415	3.540 mg/L	0.0415	1.17%
K 766.490†	2812.5	0.8496 mg/L		0.01041	0.8496 mg/L	0.01041	1.23%
Mg 285.213†	15822.6	1.842 mg/L		0.0211	1.842 mg/L	0.0211	1.15%
Mn 257.610†	2031.5	0.0816 mg/L		0.00079	0.0816 mg/L	0.00079	0.97%
Mo 202.031†	14.5	0.0006 mg/L		0.00024	0.0006 mg/L	0.00024	41.53%
Na 589.592†	110674.1	9.102 mg/L		0.1010	9.102 mg/L	0.1010	1.11%
Ni 231.604†	260.6	0.0065 mg/L		0.00018	0.0065 mg/L	0.00018	2.68%
Pb 220.353†	94.5	0.0076 mg/L		0.00067	0.0076 mg/L	0.00067	8.85%
Sb 206.836†	15.6	0.0025 mg/L		0.00040	0.0025 mg/L	0.00040	16.13%
Se 196.026†	3.2	0.0005 mg/L		0.00557	0.0005 mg/L	0.00557	>999.9%
Sn 189.927†	-80.3	-0.0093 mg/L		0.00011	-0.0093 mg/L	0.00011	1.19%
Ti 337.279†	1526.9	0.0806 mg/L		0.00081	0.0806 mg/L	0.00081	1.00%
Tl 351.924†	-49.5	-0.0022 mg/L		0.00653	-0.0022 mg/L	0.00653	297.08%
V 290.880†	2823.0	0.0125 mg/L		0.00114	0.0125 mg/L	0.00114	9.16%
Zn 206.200†	12705.4	0.1752 mg/L		0.00295	0.1752 mg/L	0.00295	1.68%
Zr 343.823†	230.0	0.0004 mg/L		0.00011	0.0004 mg/L	0.00011	26.04%

Sequence No.: 61

Sample ID: 24D0735-11

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 75

Date Collected: 4/17/2024 4:48:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	5375643.2	97.83 %		0.116			0.12%
Y radial	199718.4	103.9 %		0.83			0.79%
Ag 328.068†	321.8	0.0011 mg/L		0.00015	0.0011 mg/L	0.00015	13.53%
Al 396.153†	289.6	0.0749 mg/L		0.00130	0.0749 mg/L	0.00130	1.74%
As 188.979†	-23.7	-0.0066 mg/L		0.00106	-0.0066 mg/L	0.00106	15.95%
B 208.889†	-1813.3	-0.0968 mg/L		0.00040	-0.0968 mg/L	0.00040	0.41%
Ba 233.527†	2240.7	0.0132 mg/L		0.00006	0.0132 mg/L	0.00006	0.47%
Be 313.107†	-37.9	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	24.28%
Ca 317.933†	133117.6	19.15 mg/L		0.063	19.15 mg/L	0.063	0.33%
Cd 228.802†	-9.6	0.0001 mg/L		0.00006	0.0001 mg/L	0.00006	78.07%
Co 228.616†	45.0	0.0004 mg/L		0.00001	0.0004 mg/L	0.00001	2.62%
Cr 267.716†	111.9	0.0009 mg/L		0.00008	0.0009 mg/L	0.00008	9.32%

Cu 327.393†	-5.0	-0.0000 mg/L	0.00020	-0.0000 mg/L	0.00020	714.81%
Fe 238.204†	179.8	0.0757 mg/L	0.00095	0.0757 mg/L	0.00095	1.25%
K 766.490†	4845.0	1.464 mg/L	0.0065	1.464 mg/L	0.0065	0.44%
Mg 285.213†	50034.2	5.817 mg/L	0.0179	5.817 mg/L	0.0179	0.31%
Mn 257.610†	34.9	0.0014 mg/L	0.00011	0.0014 mg/L	0.00011	7.89%
Mo 202.031†	21.0	0.0008 mg/L	0.00019	0.0008 mg/L	0.00019	23.16%
Na 589.592†	135693.7	11.16 mg/L	0.034	11.16 mg/L	0.034	0.30%
Ni 231.604†	46.5	0.0012 mg/L	0.00003	0.0012 mg/L	0.00003	2.98%
Pb 220.353†	18.1	0.0015 mg/L	0.00089	0.0015 mg/L	0.00089	60.67%
Sb 206.836†	19.8	0.0030 mg/L	0.00039	0.0030 mg/L	0.00039	12.91%
Se 196.026†	3.7	-0.0013 mg/L	0.00122	-0.0013 mg/L	0.00122	96.37%
Sn 189.927†	-175.6	-0.0204 mg/L	0.00012	-0.0204 mg/L	0.00012	0.60%
Ti 337.279†	35.1	0.0019 mg/L	0.00019	0.0019 mg/L	0.00019	10.24%
Tl 351.924†	-31.1	-0.0026 mg/L	0.00269	-0.0026 mg/L	0.00269	103.70%
V 290.880†	683.2	0.0031 mg/L	0.00032	0.0031 mg/L	0.00032	10.55%
Zn 206.200†	418.2	0.0048 mg/L	0.00018	0.0048 mg/L	0.00018	3.62%
Zr 343.823†	68.1	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	61.26%

Sequence No.: 62
Sample ID: 24D0735-12
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 76
Date Collected: 4/17/2024 4:54:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5312658.6	96.69	%	0.740				0.76%
Y radial	199665.5	103.9	%	1.97				1.90%
Ag 328.068†	249.0	0.0009 mg/L		0.00025	0.0009 mg/L		0.00025	29.11%
Al 396.153†	66.0	0.0172 mg/L		0.00144	0.0172 mg/L		0.00144	8.38%
As 188.979†	-9.4	-0.0018 mg/L		0.00025	-0.0018 mg/L		0.00025	13.40%
B 208.889†	-1699.9	-0.0907 mg/L		0.00035	-0.0907 mg/L		0.00035	0.38%
Ba 233.527†	6792.1	0.0398 mg/L		0.00031	0.0398 mg/L		0.00031	0.77%
Be 313.107†	34.3	0.0001 mg/L		0.00004	0.0001 mg/L		0.00004	58.16%
Ca 317.933†	84383.1	12.14 mg/L		0.335	12.14 mg/L		0.335	2.76%
Cd 228.802†	-7.5	0.0000 mg/L		0.00016	0.0000 mg/L		0.00016	510.55%
Co 228.616†	121.3	0.0012 mg/L		0.00005	0.0012 mg/L		0.00005	4.03%
Cr 267.716†	68.0	0.0005 mg/L		0.00011	0.0005 mg/L		0.00011	23.30%
Cu 327.393†	-540.1	-0.0030 mg/L		0.00020	-0.0030 mg/L		0.00020	6.47%
Fe 238.204†	5430.5	2.286 mg/L		0.0428	2.286 mg/L		0.0428	1.87%
K 766.490†	4583.3	1.384 mg/L		0.0368	1.384 mg/L		0.0368	2.66%
Mg 285.213†	45114.0	5.248 mg/L		0.1032	5.248 mg/L		0.1032	1.97%
Mn 257.610†	3177.5	0.1273 mg/L		0.00263	0.1273 mg/L		0.00263	2.07%
Mo 202.031†	5.5	0.0002 mg/L		0.00013	0.0002 mg/L		0.00013	60.93%
Na 589.592†	398942.0	32.81 mg/L		0.904	32.81 mg/L		0.904	2.76%
Ni 231.604†	42.3	0.0011 mg/L		0.00020	0.0011 mg/L		0.00020	18.72%
Pb 220.353†	3.8	0.0002 mg/L		0.00058	0.0002 mg/L		0.00058	239.30%
Sb 206.836†	9.1	0.0015 mg/L		0.00031	0.0015 mg/L		0.00031	21.57%
Se 196.026†	1.9	-0.0013 mg/L		0.00102	-0.0013 mg/L		0.00102	77.57%
Sn 189.927†	-129.1	-0.0150 mg/L		0.00088	-0.0150 mg/L		0.00088	5.87%
Ti 337.279†	0.8	0.0000 mg/L		0.00016	0.0000 mg/L		0.00016	352.43%
Tl 351.924†	-6.1	0.0010 mg/L		0.00262	0.0010 mg/L		0.00262	271.36%
V 290.880†	530.4	0.0022 mg/L		0.00015	0.0022 mg/L		0.00015	6.92%
Zn 206.200†	252.4	0.0005 mg/L		0.00008	0.0005 mg/L		0.00008	14.74%
Zr 343.823†	27.9	0.0000 mg/L		0.00010	0.0000 mg/L		0.00010	>999.9%

Sequence No.: 63
Sample ID: 24D0735-13
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 77
Date Collected: 4/17/2024 4:59:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-13

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample			
	Intensity	Conc.			Conc.	Units	Std.Dev.	RSD
Y axial	5407062.6	98.41	%	1.174			1.19%	
Y radial	201308.9	104.8	%	0.64			0.61%	
Ag 328.068†	388.8	0.0012	mg/L	0.00031	0.0012	mg/L	0.00031	25.50%
Al 396.153†	279.2	0.0722	mg/L	0.00157	0.0722	mg/L	0.00157	2.18%
As 188.979†	-20.6	-0.0058	mg/L	0.00167	-0.0058	mg/L	0.00167	28.97%
B 208.889†	-1894.5	-0.1011	mg/L	0.00041	-0.1011	mg/L	0.00041	0.41%
Ba 233.527†	1971.0	0.0116	mg/L	0.00016	0.0116	mg/L	0.00016	1.34%
Be 313.107†	-49.5	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	18.97%
Ca 317.933†	103864.7	14.94	mg/L	0.073	14.94	mg/L	0.073	0.49%
Cd 228.802†	3094.1	0.0273	mg/L	0.00036	0.0273	mg/L	0.00036	1.34%
Co 228.616†	62.0	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	14.87%
Cr 267.716†	541.1	0.0039	mg/L	0.00021	0.0039	mg/L	0.00021	5.43%
Cu 327.393†	216.6	0.0012	mg/L	0.00023	0.0012	mg/L	0.00023	18.75%
Fe 238.204†	335.7	0.1413	mg/L	0.00145	0.1413	mg/L	0.00145	1.03%
K 766.490†	6094.9	1.841	mg/L	0.0144	1.841	mg/L	0.0144	0.78%
Mg 285.213†	14044.7	1.630	mg/L	0.0064	1.630	mg/L	0.0064	0.39%
Mn 257.610†	11828.1	0.4733	mg/L	0.00193	0.4733	mg/L	0.00193	0.41%
Mo 202.031†	7.4	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	24.26%
Na 589.592†	108431.7	8.917	mg/L	0.0422	8.917	mg/L	0.0422	0.47%
Ni 231.604†	59.5	0.0015	mg/L	0.00030	0.0015	mg/L	0.00030	19.89%
Pb 220.353†	31.4	0.0025	mg/L	0.00016	0.0025	mg/L	0.00016	6.45%
Sb 206.836†	7.0	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	14.93%
Se 196.026†	-0.3	-0.0021	mg/L	0.00068	-0.0021	mg/L	0.00068	31.81%
Sn 189.927†	-138.2	-0.0161	mg/L	0.00115	-0.0161	mg/L	0.00115	7.13%
Ti 337.279†	55.4	0.0029	mg/L	0.00045	0.0029	mg/L	0.00045	15.49%
Tl 351.924†	58.5	0.0050	mg/L	0.00546	0.0050	mg/L	0.00546	109.18%
V 290.880†	596.2	0.0027	mg/L	0.00042	0.0027	mg/L	0.00042	15.76%
Zn 206.200†	90.9	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	12.25%
Zr 343.823†	-5.6	-0.0000	mg/L	0.00013	-0.0000	mg/L	0.00013	842.93%

Sequence No. : 64

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 5:05:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEO-CCV@ 23J0975

Analyte		Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial		5274394.3	95.99 %	0.565			0.59%
Y radial		199018.1	103.6 %	1.20			1.16%
Ag 328.068†		700950.0	2.340 mg/L	0.0095	2.340 mg/L	0.0095	0.41%
	QC value within limits for Ag 328.068		Recovery = 93.60%				
Al 396.153†		37390.3	9.419 mg/L	0.0556	9.419 mg/L	0.0556	0.59%
	QC value within limits for Al 396.153		Recovery = 94.19%				
As 188.979†		15996.3	4.782 mg/L	0.0174	4.782 mg/L	0.0174	0.36%
	QC value within limits for As 188.979		Recovery = 95.63%				
B 208.889†		86749.3	4.388 mg/L	0.0057	4.388 mg/L	0.0057	0.13%
	QC value less than the lower limit for B 208.889		Recovery = 87.75%				
Ba 233.527†		816232.9	4.828 mg/L	0.0090	4.828 mg/L	0.0090	0.19%
	QC value within limits for Ba 233.527		Recovery = 96.56%				
Be 313.107†		2069041.0	4.664 mg/L	0.0192	4.664 mg/L	0.0192	0.41%
	QC value within limits for Be 313.107		Recovery = 93.28%				
Ca 317.933†		64053.1	9.213 mg/L	0.0446	9.213 mg/L	0.0446	0.48%
	QC value within limits for Ca 317.933		Recovery = 92.13%				
Cd 228.802†		552355.7	4.763 mg/L	0.0092	4.763 mg/L	0.0092	0.19%
	QC value within limits for Cd 228.802		Recovery = 95.26%				
Co 228.616†		485668.4	4.806 mg/L	0.0081	4.806 mg/L	0.0081	0.17%
	QC value within limits for Co 228.616		Recovery = 96.12%				
Cr 267.716†		628040.8	4.806 mg/L	0.0083	4.806 mg/L	0.0083	0.17%
	QC value within limits for Cr 267.716		Recovery = 96.12%				
Cu 327.393†		846034.2	4.774 mg/L	0.0119	4.774 mg/L	0.0119	0.25%
	QC value within limits for Cu 327.393		Recovery = 95.48%				
Fe 238.204†		11034.2	4.670 mg/L	0.0147	4.670 mg/L	0.0147	0.32%
	QC value within limits for Fe 238.204		Recovery = 93.41%				

K 766.490†	30489.7	9.210 mg/L	0.0701	9.210 mg/L	0.0701	0.76%
QC value within limits for K 766.490 Recovery = 92.10%						
Mg 285.213†	79956.3	9.280 mg/L	0.0524	9.280 mg/L	0.0524	0.56%
QC value within limits for Mg 285.213 Recovery = 92.80%						
Mn 257.610†	116545.3	4.664 mg/L	0.0208	4.664 mg/L	0.0208	0.45%
QC value within limits for Mn 257.610 Recovery = 93.29%						
Mo 202.031†	120372.9	4.781 mg/L	0.0039	4.781 mg/L	0.0039	0.08%
QC value within limits for Mo 202.031 Recovery = 95.62%						
Na 589.592†	106983.0	8.798 mg/L	0.0228	8.798 mg/L	0.0228	0.26%
QC value less than the lower limit for Na 589.592 Recovery = 87.98%						
Ni 231.604†	191985.8	4.817 mg/L	0.0082	4.817 mg/L	0.0082	0.17%
QC value within limits for Ni 231.604 Recovery = 96.34%						
Pb 220.353†	60630.7	4.875 mg/L	0.0120	4.875 mg/L	0.0120	0.25%
QC value within limits for Pb 220.353 Recovery = 97.50%						
Sb 206.836†	30591.8	4.776 mg/L	0.0215	4.776 mg/L	0.0215	0.45%
QC value within limits for Sb 206.836 Recovery = 95.53%						
Se 196.026†	9695.6	4.820 mg/L	0.0328	4.820 mg/L	0.0328	0.68%
QC value within limits for Se 196.026 Recovery = 96.40%						
Sn 189.927†	41642.1	4.834 mg/L	0.0127	4.834 mg/L	0.0127	0.26%
QC value within limits for Sn 189.927 Recovery = 96.68%						
Ti 337.279†	88319.7	4.658 mg/L	0.0300	4.658 mg/L	0.0300	0.64%
QC value within limits for Ti 337.279 Recovery = 93.17%						
Tl 351.924†	28984.4	2.401 mg/L	0.0187	2.401 mg/L	0.0187	0.78%
QC value within limits for Tl 351.924 Recovery = 96.06%						
V 290.880†	1061854.0	4.778 mg/L	0.0052	4.778 mg/L	0.0052	0.11%
QC value within limits for V 290.880 Recovery = 95.56%						
Zn 206.200†	347521.6	4.844 mg/L	0.0156	4.844 mg/L	0.0156	0.32%
QC value within limits for Zn 206.200 Recovery = 96.87%						
Zr 343.823†	2157366.8	4.792 mg/L	0.0058	4.792 mg/L	0.0058	0.12%
QC Failed. Continue with analysis.						

Sequence No.: 65

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 5:10:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5391341.9	98.12 %	1.469			1.50%
Y radial	204688.3	106.5 %	0.90			0.84%
Ag 328.068†	373.1	0.0013 mg/L	0.00020	0.0013 mg/L	0.00020	15.40%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	0.9	0.0002 mg/L	0.00399	0.0002 mg/L	0.00399	>999.9%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-10.0	-0.0029 mg/L	0.00100	-0.0029 mg/L	0.00100	33.85%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2267.1	-0.1210 mg/L	0.00065	-0.1210 mg/L	0.00065	0.54%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	3.1	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	346.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-16.4	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	51.95%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-18.2	-0.0026 mg/L	0.00134	-0.0026 mg/L	0.00134	51.07%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-12.1	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	139.21%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	14.6	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	25.23%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-25.7	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	5.05%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-960.6	-0.0054 mg/L	0.00031	-0.0054 mg/L	0.00031	5.72%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	4.8	0.0020 mg/L	0.00091	0.0020 mg/L	0.00091	45.07%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	153.3	0.0463 mg/L	0.00847	0.0463 mg/L	0.00847	18.28%

QC value within limits for K 766.490 Recovery = Not calculated
Mg 285.213† 2.5 0.0003 mg/L 0.00046 0.0003 mg/L 0.00046 158.26%
QC value within limits for Mg 285.213 Recovery = Not calculated
Mn 257.610† -1.4 -0.0001 mg/L 0.00019 -0.0001 mg/L 0.00019 342.24%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 23.9 0.0009 mg/L 0.00038 0.0009 mg/L 0.00038 39.63%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† 1774.1 0.1459 mg/L 0.00356 0.1459 mg/L 0.00356 2.44%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -2.2 -0.0001 mg/L 0.00016 -0.0001 mg/L 0.00016 285.22%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 3.1 0.0003 mg/L 0.00053 0.0003 mg/L 0.00053 203.05%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 2.2 0.0004 mg/L 0.00047 0.0004 mg/L 0.00047 127.57%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -1.3 -0.0007 mg/L 0.00323 -0.0007 mg/L 0.00323 484.28%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 9.2 0.0011 mg/L 0.00038 0.0011 mg/L 0.00038 35.86%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† -2.9 -0.0002 mg/L 0.00027 -0.0002 mg/L 0.00027 179.09%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 33.1 0.0028 mg/L 0.00305 0.0028 mg/L 0.00305 109.96%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 712.5 0.0032 mg/L 0.00072 0.0032 mg/L 0.00072 22.35%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -102.6 -0.0014 mg/L 0.00011 -0.0014 mg/L 0.00011 7.96%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -52.7 -0.0001 mg/L 0.00006 -0.0001 mg/L 0.00006 47.90%
All analyte(s) passed QC.

Sequence No.: 66
Sample ID: 24D0735-14
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 78
Date Collected: 4/17/2024 5:16:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5437746.1	98.97 %		0.188			0.19%
Y radial	202687.9	105.5 %		2.17			2.06%
Ag 328.068†	227.1	0.0007 mg/L		0.00015	0.0007 mg/L	0.00015	20.36%
Al 396.153†	186.6	0.0482 mg/L		0.00025	0.0482 mg/L	0.00025	0.53%
As 188.979†	-15.3	-0.0042 mg/L		0.00135	-0.0042 mg/L	0.00135	32.10%
B 208.889†	-2145.2	-0.1145 mg/L		0.00020	-0.1145 mg/L	0.00020	0.17%
Ba 233.527†	1291.7	0.0076 mg/L		0.00004	0.0076 mg/L	0.00004	0.50%
Be 313.107†	-82.8	-0.0002 mg/L		0.00006	-0.0002 mg/L	0.00006	31.42%
Ca 317.933†	109200.4	15.71 mg/L		0.112	15.71 mg/L	0.112	0.71%
Cd 228.802†	-1.5	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	18.79%
Co 228.616†	61.4	0.0006 mg/L		0.00005	0.0006 mg/L	0.00005	7.49%
Cr 267.716†	162.5	0.0012 mg/L		0.00007	0.0012 mg/L	0.00007	6.30%
Cu 327.393†	-583.9	-0.0033 mg/L		0.00012	-0.0033 mg/L	0.00012	3.80%
Fe 238.204†	146.9	0.0619 mg/L		0.00097	0.0619 mg/L	0.00097	1.57%
K 766.490†	2340.0	0.7068 mg/L		0.01011	0.7068 mg/L	0.01011	1.43%
Mg 285.213†	14515.8	1.685 mg/L		0.0077	1.685 mg/L	0.0077	0.46%
Mn 257.610†	4609.0	0.1844 mg/L		0.00391	0.1844 mg/L	0.00391	2.12%
Mo 202.031†	25.2	0.0010 mg/L		0.00010	0.0010 mg/L	0.00010	10.22%
Na 589.592†	53426.7	4.394 mg/L		0.0028	4.394 mg/L	0.0028	0.06%
Ni 231.604†	52.4	0.0013 mg/L		0.00009	0.0013 mg/L	0.00009	6.54%
Pb 220.353†	17.8	0.0014 mg/L		0.00056	0.0014 mg/L	0.00056	39.11%
Sb 206.836†	11.5	0.0017 mg/L		0.00143	0.0017 mg/L	0.00143	83.29%
Se 196.026†	3.8	-0.0001 mg/L		0.00479	-0.0001 mg/L	0.00479	>999.9%
Sn 189.927†	-140.5	-0.0163 mg/L		0.00039	-0.0163 mg/L	0.00039	2.40%
Ti 337.279†	18.3	0.0010 mg/L		0.00020	0.0010 mg/L	0.00020	21.10%
Tl 351.924†	-18.2	-0.0015 mg/L		0.00646	-0.0015 mg/L	0.00646	429.92%
V 290.880†	360.5	0.0016 mg/L		0.00029	0.0016 mg/L	0.00029	17.88%
Zn 206.200†	308.1	0.0039 mg/L		0.00008	0.0039 mg/L	0.00008	2.12%

Zr 343.823† 43.7 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 89.11%
 User canceled analysis.

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Analysis Begun

Start Time: 4/17/2024 5:25:16 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 64

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/17/2024 5:25:16 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 110

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5258973.8	95.71 %	0.216			0.23%
Y radial	200278.8	104.2 %	0.25			0.24%
Ag 328.068†	716914.7	2.394 mg/L	0.0137	2.394 mg/L	0.0137	0.57%
QC value within limits for Ag 328.068 Recovery = 95.74%						
Al 396.153†	37642.2	9.483 mg/L	0.0686	9.483 mg/L	0.0686	0.72%
QC value within limits for Al 396.153 Recovery = 94.83%						
As 188.979†	15930.2	4.762 mg/L	0.0230	4.762 mg/L	0.0230	0.48%
QC value within limits for As 188.979 Recovery = 95.24%						
B 208.889†	87619.5	4.433 mg/L	0.0168	4.433 mg/L	0.0168	0.38%
QC value less than the lower limit for B 208.889 Recovery = 88.66%						
Ba 233.527†	819245.5	4.846 mg/L	0.0148	4.846 mg/L	0.0148	0.31%
QC value within limits for Ba 233.527 Recovery = 96.91%						
Be 313.107†	2039695.4	4.597 mg/L	0.0082	4.597 mg/L	0.0082	0.18%
QC value within limits for Be 313.107 Recovery = 91.95%						
Ca 317.933†	64027.5	9.210 mg/L	0.0747	9.210 mg/L	0.0747	0.81%
QC value within limits for Ca 317.933 Recovery = 92.10%						
Cd 228.802†	554221.8	4.780 mg/L	0.0131	4.780 mg/L	0.0131	0.28%
QC value within limits for Cd 228.802 Recovery = 95.59%						
Co 228.616†	488007.2	4.829 mg/L	0.0146	4.829 mg/L	0.0146	0.30%
QC value within limits for Co 228.616 Recovery = 96.58%						
Cr 267.716†	631219.1	4.830 mg/L	0.0150	4.830 mg/L	0.0150	0.31%
QC value within limits for Cr 267.716 Recovery = 96.61%						
Cu 327.393†	853287.6	4.815 mg/L	0.0253	4.815 mg/L	0.0253	0.53%
QC value within limits for Cu 327.393 Recovery = 96.29%						
Fe 238.204†	11066.1	4.684 mg/L	0.0387	4.684 mg/L	0.0387	0.83%
QC value within limits for Fe 238.204 Recovery = 93.68%						
K 766.490†	30262.7	9.141 mg/L	0.0743	9.141 mg/L	0.0743	0.81%
QC value within limits for K 766.490 Recovery = 91.41%						
Mg 285.213†	80209.4	9.310 mg/L	0.0740	9.310 mg/L	0.0740	0.80%
QC value within limits for Mg 285.213 Recovery = 93.10%						
Mn 257.610†	117227.7	4.692 mg/L	0.0404	4.692 mg/L	0.0404	0.86%
QC value within limits for Mn 257.610 Recovery = 93.83%						
Mo 202.031†	120990.8	4.805 mg/L	0.0214	4.805 mg/L	0.0214	0.44%
QC value within limits for Mo 202.031 Recovery = 96.11%						
Na 589.592†	103305.8	8.496 mg/L	0.0368	8.496 mg/L	0.0368	0.43%
QC value less than the lower limit for Na 589.592 Recovery = 84.96%						
Ni 231.604†	193408.8	4.853 mg/L	0.0175	4.853 mg/L	0.0175	0.36%
QC value within limits for Ni 231.604 Recovery = 97.05%						
Pb 220.353†	60228.9	4.843 mg/L	0.0092	4.843 mg/L	0.0092	0.19%
QC value within limits for Pb 220.353 Recovery = 96.85%						
Sb 206.836†	30392.4	4.744 mg/L	0.0124	4.744 mg/L	0.0124	0.26%
QC value within limits for Sb 206.836 Recovery = 94.89%						
Se 196.026†	9602.9	4.774 mg/L	0.0290	4.774 mg/L	0.0290	0.61%

QC value within limits for Se 196.026 Recovery = 95.48%
 Sn 189.927† 41359.0 4.801 mg/L 0.0214 4.801 mg/L 0.0214 0.45%
 QC value within limits for Sn 189.927 Recovery = 96.02%
 Ti 337.279† 88638.6 4.675 mg/L 0.0446 4.675 mg/L 0.0446 0.95%
 QC value within limits for Ti 337.279 Recovery = 93.51%
 Tl 351.924† 28690.2 2.377 mg/L 0.0016 2.377 mg/L 0.0016 0.07%
 QC value within limits for Tl 351.924 Recovery = 95.06%
 V 290.880† 1063410.1 4.785 mg/L 0.0152 4.785 mg/L 0.0152 0.32%
 QC value within limits for V 290.880 Recovery = 95.70%
 Zn 206.200† 349778.7 4.875 mg/L 0.0161 4.875 mg/L 0.0161 0.33%
 QC value within limits for Zn 206.200 Recovery = 97.49%
 Zr 343.823† 2162382.5 4.803 mg/L 0.0186 4.803 mg/L 0.0186 0.39%
 QC Failed. Continue with analysis.

Sequence No.: 65

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 5:31:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5450689.7	99.20 %	0.215			0.22%
Y radial	199134.0	103.6 %	1.16			1.12%
Ag 328.068†	319.7	0.0011 mg/L	0.00015	0.0011 mg/L	0.00015	14.20%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 396.153†	25.8	0.0066 mg/L	0.01023	0.0066 mg/L	0.01023	154.15%
QC value within limits for Al 396.153		Recovery =	Not calculated			
As 188.979†	-7.2	-0.0021 mg/L	0.00220	-0.0021 mg/L	0.00220	103.97%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 208.889†	-2248.7	-0.1200 mg/L	0.00017	-0.1200 mg/L	0.00017	0.14%
QC value within limits for B 208.889		Recovery =	Not calculated			
Ba 233.527†	-4.9	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	203.51%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	-0.5	-0.0000 mg/L	0.00002	-0.0000 mg/L	0.00002	313.40%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 317.933†	6.8	0.0010 mg/L	0.00276	0.0010 mg/L	0.00276	281.70%
QC value within limits for Ca 317.933		Recovery =	Not calculated			
Cd 228.802†	-8.5	-0.0000 mg/L	0.00004	-0.0000 mg/L	0.00004	151.02%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	11.6	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	79.62%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-26.2	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	12.60%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 327.393†	-1000.6	-0.0056 mg/L	0.00020	-0.0056 mg/L	0.00020	3.55%
QC value within limits for Cu 327.393		Recovery =	Not calculated			
Fe 238.204†	1.7	0.0007 mg/L	0.00201	0.0007 mg/L	0.00201	288.55%
QC value within limits for Fe 238.204		Recovery =	Not calculated			
K 766.490†	184.1	0.0556 mg/L	0.01216	0.0556 mg/L	0.01216	21.86%
QC value within limits for K 766.490		Recovery =	Not calculated			
Mg 285.213†	1.0	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	260.70%
QC value within limits for Mg 285.213		Recovery =	Not calculated			
Mn 257.610†	-3.4	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	52.96%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mo 202.031†	25.9	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	25.10%
QC value within limits for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	1451.0	0.1193 mg/L	0.00292	0.1193 mg/L	0.00292	2.45%
QC value within limits for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	-4.0	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	124.20%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
Pb 220.353†	8.0	0.0007 mg/L	0.00106	0.0007 mg/L	0.00106	161.62%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-5.7	-0.0009 mg/L	0.00095	-0.0009 mg/L	0.00095	108.00%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	2.1	0.0011 mg/L	0.00270	0.0011 mg/L	0.00270	256.38%
QC value within limits for Se 196.026		Recovery =	Not calculated			

Sn 189.927†	3.8	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	48.68%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	4.8	0.0003 mg/L	0.00033	0.0003 mg/L	0.00033	131.50%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	0.9	0.0001 mg/L	0.00437	0.0001 mg/L	0.00437	>999.9%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	239.7	0.0011 mg/L	0.00017	0.0011 mg/L	0.00017	15.70%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-96.4	-0.0014 mg/L	0.00008	-0.0014 mg/L	0.00008	5.90%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-127.4	-0.0003 mg/L	0.00012	-0.0003 mg/L	0.00012	41.75%

All analyte(s) passed QC.

Sequence No.: 66
Sample ID: 24D0735-14
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 78
Date Collected: 4/17/2024 5:36:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	11451292.2	208.4 %	8.77			4.21%
Internal Standard Check greater than the upper limit for Y axial. Recovery = 208.4%						
Y radial	230586.9	120.0 %	25.51			21.26%
Saturated within auto integration window (code 4)						
Ag 328.068†	200.7	0.0005 mg/L	0.00091	0.0005 mg/L	0.00091	166.58%
Al 396.153†	94.0	0.0243 mg/L	0.02871	0.0243 mg/L	0.02871	117.98%
As 188.979†	4.2	0.0016 mg/L	0.00070	0.0016 mg/L	0.00070	44.65%
B 208.889†	-2525.5	-0.1347 mg/L	0.00021	-0.1347 mg/L	0.00021	0.16%
Ba 233.527†	-31.9	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	16.70%
Be 313.107†	-271.2	-0.0005 mg/L	0.00075	-0.0005 mg/L	0.00075	149.80%
Ca 317.933†	75571.8	10.87 mg/L	7.871	10.87 mg/L	7.871	72.41%
Cd 228.802†	-87.0	-0.0008 mg/L	0.00001	-0.0008 mg/L	0.00001	1.12%
Co 228.616†	81.7	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	7.57%
Cr 267.716†	-135.6	-0.0011 mg/L	0.00004	-0.0011 mg/L	0.00004	3.74%
Cu 327.393†	-1122.8	-0.0063 mg/L	0.00020	-0.0063 mg/L	0.00020	3.13%
Fe 238.204†	103.6	0.0436 mg/L	0.02121	0.0436 mg/L	0.02121	48.63%
K 766.490†	1524.0	0.4604 mg/L	0.39118	0.4604 mg/L	0.39118	84.97%
Mg 285.213†	9937.2	1.153 mg/L	0.8406	1.153 mg/L	0.8406	72.89%
Mn 257.610†	3191.6	0.1277 mg/L	0.09248	0.1277 mg/L	0.09248	72.41%
Mo 202.031†	-6.2	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	36.52%
Na 589.592†	38073.5	3.131 mg/L	2.2792	3.131 mg/L	2.2792	72.79%
Ni 231.604†	-113.1	-0.0028 mg/L	0.00016	-0.0028 mg/L	0.00016	5.74%
Pb 220.353†	-0.7	-0.0001 mg/L	0.00016	-0.0001 mg/L	0.00016	298.35%
Sb 206.836†	-13.4	-0.0021 mg/L	0.00034	-0.0021 mg/L	0.00034	16.07%
Se 196.026†	3.6	0.0004 mg/L	0.00067	0.0004 mg/L	0.00067	176.11%
Sn 189.927†	13.6	0.0016 mg/L	0.00024	0.0016 mg/L	0.00024	15.14%
Ti 337.279†	-3.3	-0.0002 mg/L	0.00240	-0.0002 mg/L	0.00240	>999.9%
Tl 351.924†	-40.4	-0.0033 mg/L	0.00177	-0.0033 mg/L	0.00177	54.24%
V 290.880†	-5231.2	-0.0235 mg/L	0.00074	-0.0235 mg/L	0.00074	3.14%
Zn 206.200†	-158.0	-0.0025 mg/L	0.00016	-0.0025 mg/L	0.00016	6.33%
Zr 343.823†	-208.4	-0.0005 mg/L	0.00012	-0.0005 mg/L	0.00012	25.21%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 67
Sample ID: 24D0735-15
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 79
Date Collected: 4/17/2024 5:42:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-15

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD

Y axial	5240836.1	95.38 %	0.610			0.64%
Y radial	199576.0	103.9 %	1.33			1.28%
Ag 328.068†	305.6	0.0010 mg/L	0.00033	0.0010 mg/L	0.00033	32.01%
Al 396.153†	171.9	0.0444 mg/L	0.00864	0.0444 mg/L	0.00864	19.45%
As 188.979†	-26.1	-0.0071 mg/L	0.00210	-0.0071 mg/L	0.00210	29.57%
B 208.889†	-1829.9	-0.0977 mg/L	0.00015	-0.0977 mg/L	0.00015	0.15%
Ba 233.527†	7518.3	0.0444 mg/L	0.00050	0.0444 mg/L	0.00050	1.13%
Be 313.107†	-29.3	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	51.20%
Ca 317.933†	225260.7	32.40 mg/L	0.203	32.40 mg/L	0.203	0.63%
Cd 228.802†	436.1	0.0040 mg/L	0.00005	0.0040 mg/L	0.00005	1.37%
Co 228.616†	54.2	0.0005 mg/L	0.00013	0.0005 mg/L	0.00013	24.71%
Cr 267.716†	151.2	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.41%
Cu 327.393†	-603.2	-0.0034 mg/L	0.00022	-0.0034 mg/L	0.00022	6.59%
Fe 238.204†	128.9	0.0543 mg/L	0.00017	0.0543 mg/L	0.00017	0.31%
K 766.490†	10007.4	3.023 mg/L	0.0392	3.023 mg/L	0.0392	1.30%
Mg 285.213†	34709.8	4.030 mg/L	0.0587	4.030 mg/L	0.0587	1.46%
Mn 257.610†	85.9	0.0034 mg/L	0.00014	0.0034 mg/L	0.00014	4.05%
Mo 202.031†	29.3	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012	10.11%
Na 589.592†	606794.9	49.90 mg/L	0.120	49.90 mg/L	0.120	0.24%
Ni 231.604†	57.9	0.0015 mg/L	0.00020	0.0015 mg/L	0.00020	13.93%
Pb 220.353†	22.1	0.0018 mg/L	0.00087	0.0018 mg/L	0.00087	48.82%
Sb 206.836†	21.9	0.0033 mg/L	0.00061	0.0033 mg/L	0.00061	18.44%
Se 196.026†	8.4	0.0000 mg/L	0.00198	0.0000 mg/L	0.00198	>999.9%
Sn 189.927†	-225.8	-0.0262 mg/L	0.00042	-0.0262 mg/L	0.00042	1.61%
Ti 337.279†	29.9	0.0016 mg/L	0.00034	0.0016 mg/L	0.00034	21.31%
Tl 351.924†	-28.3	-0.0024 mg/L	0.00625	-0.0024 mg/L	0.00625	263.42%
V 290.880†	758.1	0.0034 mg/L	0.00067	0.0034 mg/L	0.00067	19.66%
Zn 206.200†	241.2	-0.0009 mg/L	0.00003	-0.0009 mg/L	0.00003	2.82%
Zr 343.823†	194.3	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	36.19%

Sequence No.: 68

Sample ID: 24D0735-16

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 80

Date Collected: 4/17/2024 5:47:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-16

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5280793.0	96.11 %		0.836			0.87%
Y radial	200172.7	104.2 %		1.03			0.99%
Ag 328.068†	401.2	0.0013 mg/L		0.00016	0.0013 mg/L	0.00016	12.39%
Al 396.153†	170.3	0.0441 mg/L		0.00157	0.0441 mg/L	0.00157	3.57%
As 188.979†	-18.9	-0.0050 mg/L		0.00118	-0.0050 mg/L	0.00118	23.58%
B 208.889†	-1764.5	-0.0942 mg/L		0.00006	-0.0942 mg/L	0.00006	0.07%
Ba 233.527†	4238.0	0.0249 mg/L		0.00029	0.0249 mg/L	0.00029	1.15%
Be 313.107†	-56.1	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	14.97%
Ca 317.933†	131375.9	18.90 mg/L		0.154	18.90 mg/L	0.154	0.81%
Cd 228.802†	605.3	0.0055 mg/L		0.00014	0.0055 mg/L	0.00014	2.50%
Co 228.616†	475.8	0.0047 mg/L		0.00005	0.0047 mg/L	0.00005	1.02%
Cr 267.716†	368.5	0.0026 mg/L		0.00009	0.0026 mg/L	0.00009	3.33%
Cu 327.393†	-392.2	-0.0022 mg/L		0.00012	-0.0022 mg/L	0.00012	5.58%
Fe 238.204†	1879.0	0.7910 mg/L		0.00859	0.7910 mg/L	0.00859	1.09%
K 766.490†	6557.3	1.981 mg/L		0.0232	1.981 mg/L	0.0232	1.17%
Mg 285.213†	22973.4	2.668 mg/L		0.0264	2.668 mg/L	0.0264	0.99%
Mn 257.610†	13463.6	0.5388 mg/L		0.00547	0.5388 mg/L	0.00547	1.01%
Mo 202.031†	10.9	0.0004 mg/L		0.00033	0.0004 mg/L	0.00033	76.98%
Na 589.592†	324052.5	26.65 mg/L		0.200	26.65 mg/L	0.200	0.75%
Ni 231.604†	100.3	0.0025 mg/L		0.00029	0.0025 mg/L	0.00029	11.54%
Pb 220.353†	6.6	0.0005 mg/L		0.00049	0.0005 mg/L	0.00049	104.81%
Sb 206.836†	11.0	0.0016 mg/L		0.00014	0.0016 mg/L	0.00014	8.66%
Se 196.026†	6.0	0.0004 mg/L		0.00383	0.0004 mg/L	0.00383	>999.9%
Sn 189.927†	-165.7	-0.0193 mg/L		0.00055	-0.0193 mg/L	0.00055	2.88%
Ti 337.279†	39.6	0.0021 mg/L		0.00028	0.0021 mg/L	0.00028	13.57%
Tl 351.924†	53.9	0.0050 mg/L		0.00470	0.0050 mg/L	0.00470	93.48%
V 290.880†	780.0	0.0035 mg/L		0.00035	0.0035 mg/L	0.00035	10.22%
Zn 206.200†	4519.4	0.0604 mg/L		0.00067	0.0604 mg/L	0.00067	1.12%

Zr 343.823† 99.2 0.0002 mg/L 0.00006 0.0002 mg/L 0.00006 28.21%

Sequence No.: 69

Sample ID: 24D0735-17

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 81

Date Collected: 4/17/2024 5:53:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-17

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5287218.6	96.23 %		0.733			0.76%
Y radial	197291.0	102.7 %		1.83			1.78%
Ag 328.068†	318.5	0.0011 mg/L		0.00033	0.0011 mg/L	0.00033	28.82%
Al 396.153†	3474.2	0.8990 mg/L		0.01802	0.8990 mg/L	0.01802	2.00%
As 188.979†	-26.8	-0.0054 mg/L		0.00088	-0.0054 mg/L	0.00088	16.25%
B 208.889†	-1822.7	-0.0973 mg/L		0.00017	-0.0973 mg/L	0.00017	0.18%
Ba 233.527†	8431.3	0.0491 mg/L		0.00042	0.0491 mg/L	0.00042	0.86%
Be 313.107†	-34.3	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	18.90%
Ca 317.933†	221130.5	31.81 mg/L		0.151	31.81 mg/L	0.151	0.47%
Cd 228.802†	59147.7	0.5196 mg/L		0.00493	0.5196 mg/L	0.00493	0.95%
Co 228.616†	602.3	0.0059 mg/L		0.00007	0.0059 mg/L	0.00007	1.23%
Cr 267.716†	498.6	0.0039 mg/L		0.00005	0.0039 mg/L	0.00005	1.32%
Cu 327.393†	5656.7	0.0318 mg/L		0.00010	0.0318 mg/L	0.00010	0.31%
Fe 238.204†	12112.1	5.099 mg/L		0.0948	5.099 mg/L	0.0948	1.86%
K 766.490†	11146.0	3.367 mg/L		0.0152	3.367 mg/L	0.0152	0.45%
Mg 285.213†	47292.0	5.498 mg/L		0.0202	5.498 mg/L	0.0202	0.37%
Mn 257.610†	7010.0	0.2809 mg/L		0.00498	0.2809 mg/L	0.00498	1.77%
Mo 202.031†	31.0	0.0012 mg/L		0.00017	0.0012 mg/L	0.00017	13.88%
Na 589.592†	605695.2	49.81 mg/L		0.181	49.81 mg/L	0.181	0.36%
Ni 231.604†	277.7	0.0070 mg/L		0.00037	0.0070 mg/L	0.00037	5.37%
Pb 220.353†	167.4	0.0133 mg/L		0.00054	0.0133 mg/L	0.00054	4.02%
Sb 206.836†	21.6	0.0034 mg/L		0.00037	0.0034 mg/L	0.00037	10.73%
Se 196.026†	10.4	0.0009 mg/L		0.00249	0.0009 mg/L	0.00249	278.37%
Sn 189.927†	-221.3	-0.0257 mg/L		0.00019	-0.0257 mg/L	0.00019	0.72%
Ti 337.279†	758.0	0.0400 mg/L		0.00081	0.0400 mg/L	0.00081	2.01%
Tl 351.924†	-10.1	0.0023 mg/L		0.00497	0.0023 mg/L	0.00497	216.80%
V 290.880†	1876.1	0.0081 mg/L		0.00061	0.0081 mg/L	0.00061	7.55%
Zn 206.200†	7728.5	0.1026 mg/L		0.00071	0.1026 mg/L	0.00071	0.69%
Zr 343.823†	376.5	0.0007 mg/L		0.00029	0.0007 mg/L	0.00029	40.86%

Sequence No.: 70

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/17/2024 5:58:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5364701.0	97.64 %		1.672			1.71%
Y radial	199621.5	103.9 %		2.08			2.00%
Ag 328.068†	415.2	0.0014 mg/L		0.00010	0.0014 mg/L	0.00010	7.27%
Al 396.153†	14.5	0.0037 mg/L		0.00142	0.0037 mg/L	0.00142	37.85%
As 188.979†	-13.2	-0.0039 mg/L		0.00234	-0.0039 mg/L	0.00234	59.86%
B 208.889†	-2393.4	-0.1277 mg/L		0.00059	-0.1277 mg/L	0.00059	0.47%
Ba 233.527†	5.7	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	21.41%
Be 313.107†	-36.5	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	32.27%
Ca 317.933†	36.0	0.0052 mg/L		0.00361	0.0052 mg/L	0.00361	69.77%
Cd 228.802†	-7.5	0.0000 mg/L		0.00006	0.0000 mg/L	0.00006	260.98%
Co 228.616†	13.0	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	35.21%
Cr 267.716†	-19.5	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	15.00%
Cu 327.393†	-987.5	-0.0056 mg/L		0.00032	-0.0056 mg/L	0.00032	5.68%
Fe 238.204†	3.8	0.0016 mg/L		0.00173	0.0016 mg/L	0.00173	107.95%

K 766.490†	138.1	0.0417 mg/L	0.02291	0.0417 mg/L	0.02291	54.92%
Mg 285.213†	13.4	0.0016 mg/L	0.00014	0.0016 mg/L	0.00014	8.98%
Mn 257.610†	-2.4	-0.0001 mg/L	0.00029	-0.0001 mg/L	0.00029	309.66%
Mo 202.031†	3.0	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	61.74%
Na 589.592†	1558.4	0.1282 mg/L	0.00731	0.1282 mg/L	0.00731	5.71%
Ni 231.604†	-16.0	-0.0004 mg/L	0.00019	-0.0004 mg/L	0.00019	47.34%
Pb 220.353†	-8.1	-0.0006 mg/L	0.00051	-0.0006 mg/L	0.00051	79.14%
Sb 206.836†	2.1	0.0003 mg/L	0.00042	0.0003 mg/L	0.00042	122.13%
Se 196.026†	0.9	0.0004 mg/L	0.00067	0.0004 mg/L	0.00067	155.51%
Sn 189.927†	5.0	0.0006 mg/L	0.00021	0.0006 mg/L	0.00021	35.84%
Ti 337.279†	-2.2	-0.0001 mg/L	0.00037	-0.0001 mg/L	0.00037	323.75%
Tl 351.924†	3.5	0.0003 mg/L	0.00871	0.0003 mg/L	0.00871	>999.9%
V 290.880†	300.7	0.0014 mg/L	0.00045	0.0014 mg/L	0.00045	33.14%
Zn 206.200†	-141.3	-0.0020 mg/L	0.00006	-0.0020 mg/L	0.00006	2.90%
Zr 343.823†	-83.1	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	48.10%

Sequence No.: 71

Sample ID: B371700-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 82

Date Collected: 4/17/2024 6:04:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5441540.3	99.03 %		0.874				0.88%
Y radial	198000.3	103.1 %		0.15				0.15%
Ag 328.068†	405.5	0.0014 mg/L		0.00006	0.0014 mg/L		0.00006	4.39%
Al 396.153†	21.9	0.0056 mg/L		0.00484	0.0056 mg/L		0.00484	86.10%
As 188.979†	-30.4	-0.0090 mg/L		0.00159	-0.0090 mg/L		0.00159	17.63%
B 208.889†	-2327.9	-0.1242 mg/L		0.00015	-0.1242 mg/L		0.00015	0.12%
Ba 233.527†	-8.4	-0.0001 mg/L		0.00005	-0.0001 mg/L		0.00005	88.61%
Be 313.107†	-109.6	-0.0002 mg/L		0.00003	-0.0002 mg/L		0.00003	12.93%
Ca 317.933†	237.0	0.0341 mg/L		0.00143	0.0341 mg/L		0.00143	4.18%
Cd 228.802†	38.1	0.0005 mg/L		0.00005	0.0005 mg/L		0.00005	8.59%
Co 228.616†	37.5	0.0004 mg/L		0.00007	0.0004 mg/L		0.00007	19.40%
Cr 267.716†	59.4	0.0005 mg/L		0.00005	0.0005 mg/L		0.00005	10.73%
Cu 327.393†	9259.0	0.0521 mg/L		0.00481	0.0521 mg/L		0.00481	9.23%
Fe 238.204†	44.8	0.0189 mg/L		0.00183	0.0189 mg/L		0.00183	9.71%
K 766.490†	200.2	0.0605 mg/L		0.02613	0.0605 mg/L		0.02613	43.20%
Mg 285.213†	52.0	0.0061 mg/L		0.00025	0.0061 mg/L		0.00025	4.17%
Mn 257.610†	54.6	0.0022 mg/L		0.00032	0.0022 mg/L		0.00032	14.59%
Mo 202.031†	22.2	0.0009 mg/L		0.00003	0.0009 mg/L		0.00003	2.95%
Na 589.592†	1795.0	0.1476 mg/L		0.00956	0.1476 mg/L		0.00956	6.48%
Ni 231.604†	107.9	0.0027 mg/L		0.00022	0.0027 mg/L		0.00022	8.29%
Pb 220.353†	-27.9	-0.0023 mg/L		0.00037	-0.0023 mg/L		0.00037	15.98%
Sb 206.836†	22.4	0.0037 mg/L		0.00116	0.0037 mg/L		0.00116	31.15%
Se 196.026†	-1.9	-0.0009 mg/L		0.00102	-0.0009 mg/L		0.00102	108.76%
Sn 189.927†	283.8	0.0330 mg/L		0.00070	0.0330 mg/L		0.00070	2.12%
Ti 337.279†	24.1	0.0013 mg/L		0.00020	0.0013 mg/L		0.00020	15.97%
Tl 351.924†	9.7	0.0008 mg/L		0.00110	0.0008 mg/L		0.00110	133.55%
V 290.880†	77.7	0.0003 mg/L		0.00032	0.0003 mg/L		0.00032	92.26%
Zn 206.200†	-33.0	-0.0005 mg/L		0.00008	-0.0005 mg/L		0.00008	17.86%
Zr 343.823†	391.5	0.0009 mg/L		0.00014	0.0009 mg/L		0.00014	16.55%

Sequence No.: 72

Sample ID: B371700-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 83

Date Collected: 4/17/2024 6:09:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD

Y axial	5312917.3	96.69 %	0.836			0.86%
Y radial	198388.2	103.3 %	0.45			0.44%
Ag 328.068†	240012.3	0.8120 mg/L	0.00441	0.8120 mg/L	0.00441	0.54%
Al 396.153†	207965.7	53.75 mg/L	0.225	53.75 mg/L	0.225	0.42%
As 188.979†	9630.0	2.912 mg/L	0.0255	2.912 mg/L	0.0255	0.88%
B 208.889†	37293.7	1.917 mg/L	0.0101	1.917 mg/L	0.0101	0.53%
Ba 233.527†	498641.3	2.939 mg/L	0.0151	2.939 mg/L	0.0151	0.51%
Be 313.107†	780791.1	1.763 mg/L	0.0082	1.763 mg/L	0.0082	0.47%
Ca 317.933†	359212.2	51.67 mg/L	0.260	51.67 mg/L	0.260	0.50%
Cd 228.802†	246639.3	2.106 mg/L	0.0116	2.106 mg/L	0.0116	0.55%
Co 228.616†	84090.0	0.8275 mg/L	0.00351	0.8275 mg/L	0.00351	0.42%
Cr 267.716†	247664.9	1.893 mg/L	0.0081	1.893 mg/L	0.0081	0.43%
Cu 327.393†	388912.7	2.187 mg/L	0.0047	2.187 mg/L	0.0047	0.22%
Fe 238.204†	131275.9	55.27 mg/L	0.242	55.27 mg/L	0.242	0.44%
K 766.490†	36881.2	11.14 mg/L	0.050	11.14 mg/L	0.050	0.45%
Mg 285.213†	130721.1	15.24 mg/L	0.042	15.24 mg/L	0.042	0.28%
Mn 257.610†	131799.9	5.279 mg/L	0.0215	5.279 mg/L	0.0215	0.41%
Mo 202.031†	36510.1	1.450 mg/L	0.0133	1.450 mg/L	0.0133	0.92%
Na 589.592†	52841.9	4.346 mg/L	0.0116	4.346 mg/L	0.0116	0.27%
Ni 231.604†	125499.0	3.148 mg/L	0.0160	3.148 mg/L	0.0160	0.51%
Pb 220.353†	10913.5	0.8803 mg/L	0.00819	0.8803 mg/L	0.00819	0.93%
Sb 206.836†	6633.8	1.020 mg/L	0.0111	1.020 mg/L	0.0111	1.09%
Se 196.026†	3249.8	1.608 mg/L	0.0142	1.608 mg/L	0.0142	0.88%
Sn 189.927†	6246.1	0.7258 mg/L	0.00600	0.7258 mg/L	0.00600	0.83%
Ti 337.279†	57429.1	3.031 mg/L	0.0117	3.031 mg/L	0.0117	0.39%
Tl 351.924†	23384.7	1.990 mg/L	0.0204	1.990 mg/L	0.0204	1.03%
V 290.880†	239173.6	1.073 mg/L	0.0046	1.073 mg/L	0.0046	0.42%
Zn 206.200†	119748.2	1.667 mg/L	0.0100	1.667 mg/L	0.0100	0.60%
Zr 343.823†	29771.3	0.0648 mg/L	0.00079	0.0648 mg/L	0.00079	1.22%

Sequence No.: 73

Sample ID: B371700-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 84

Date Collected: 4/17/2024 6:14:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5344945.2	97.28 %		0.871			0.90%
Y radial	196776.3	102.4 %		0.84			0.82%
Ag 328.068†	222635.9	0.7531 mg/L		0.00242	0.7531 mg/L	0.00242	0.32%
Al 396.153†	188049.0	48.60 mg/L		0.160	48.60 mg/L	0.160	0.33%
As 188.979†	8829.1	2.671 mg/L		0.0181	2.671 mg/L	0.0181	0.68%
B 208.889†	34696.3	1.784 mg/L		0.0041	1.784 mg/L	0.0041	0.23%
Ba 233.527†	483343.7	2.849 mg/L		0.0130	2.849 mg/L	0.0130	0.46%
Be 313.107†	739513.8	1.670 mg/L		0.0074	1.670 mg/L	0.0074	0.44%
Ca 317.933†	328738.9	47.29 mg/L		0.384	47.29 mg/L	0.384	0.81%
Cd 228.802†	229359.2	1.960 mg/L		0.0065	1.960 mg/L	0.0065	0.33%
Co 228.616†	79008.7	0.7773 mg/L		0.00309	0.7773 mg/L	0.00309	0.40%
Cr 267.716†	226358.3	1.730 mg/L		0.0089	1.730 mg/L	0.0089	0.52%
Cu 327.393†	359365.4	2.021 mg/L		0.0172	2.021 mg/L	0.0172	0.85%
Fe 238.204†	119624.8	50.36 mg/L		0.305	50.36 mg/L	0.305	0.61%
K 766.490†	34730.2	10.49 mg/L		0.045	10.49 mg/L	0.045	0.43%
Mg 285.213†	120460.1	14.04 mg/L		0.076	14.04 mg/L	0.076	0.54%
Mn 257.610†	133344.4	5.340 mg/L		0.0335	5.340 mg/L	0.0335	0.63%
Mo 202.031†	33320.7	1.323 mg/L		0.0104	1.323 mg/L	0.0104	0.78%
Na 589.592†	53157.4	4.372 mg/L		0.0096	4.372 mg/L	0.0096	0.22%
Ni 231.604†	117528.7	2.948 mg/L		0.0187	2.948 mg/L	0.0187	0.63%
Pb 220.353†	10314.9	0.8318 mg/L		0.00667	0.8318 mg/L	0.00667	0.80%
Sb 206.836†	6196.8	0.9536 mg/L		0.00715	0.9536 mg/L	0.00715	0.75%
Se 196.026†	2977.9	1.473 mg/L		0.0071	1.473 mg/L	0.0071	0.48%
Sn 189.927†	5746.7	0.6677 mg/L		0.00595	0.6677 mg/L	0.00595	0.89%
Ti 337.279†	54865.1	2.895 mg/L		0.0174	2.895 mg/L	0.0174	0.60%
Tl 351.924†	21344.5	1.816 mg/L		0.0133	1.816 mg/L	0.0133	0.73%
V 290.880†	219183.9	0.9834 mg/L		0.00328	0.9834 mg/L	0.00328	0.33%
Zn 206.200†	112024.1	1.560 mg/L		0.0073	1.560 mg/L	0.0073	0.47%

Zr 343.823† 27117.1 0.0590 mg/L 0.00044 0.0590 mg/L 0.00044 0.75%

Sequence No.: 74

Sample ID: B371700-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 85

Date Collected: 4/17/2024 6:19:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-MS1

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y axial	5273526.2	95.98	%	0.691				0.72%
Y radial	201411.5	104.8	%	0.65				0.62%
Ag 328.068†	128262.5	0.4415	mg/L	0.00206	0.4415	mg/L	0.00206	0.47%
Al 396.153†	987743.9	255.5	mg/L	3.49	255.5	mg/L	3.49	1.36%
As 188.979†	963.5	0.4780	mg/L	0.00251	0.4780	mg/L	0.00251	0.53%
B 208.889†	20651.7	1.081	mg/L	0.0092	1.081	mg/L	0.0092	0.85%
Ba 233.527†	422303.1	2.444	mg/L	0.0163	2.444	mg/L	0.0163	0.67%
Be 313.107†	208115.5	0.4654	mg/L	0.00082	0.4654	mg/L	0.00082	0.18%
Ca 317.933†	385127.0	55.40	mg/L	0.125	55.40	mg/L	0.125	0.23%
Cd 228.802†	52386.3	0.4597	mg/L	0.00249	0.4597	mg/L	0.00249	0.54%
Co 228.616†	68752.9	0.6642	mg/L	0.00311	0.6642	mg/L	0.00311	0.47%
Cr 267.716†	96886.4	0.7359	mg/L	0.00588	0.7359	mg/L	0.00588	0.80%
Cu 327.393†	299761.8	1.686	mg/L	0.0111	1.686	mg/L	0.0111	0.66%
Fe 238.204†	927836.3	390.6	mg/L	0.64	390.6	mg/L	0.64	0.16%
K 766.490†	103845.0	31.37	mg/L	0.047	31.37	mg/L	0.047	0.15%
Mg 285.213†	908482.6	106.0	mg/L	0.13	106.0	mg/L	0.13	0.12%
Mn 257.610†	341346.3	13.69	mg/L	0.018	13.69	mg/L	0.018	0.13%
Mo 202.031†	10222.3	0.4060	mg/L	0.00318	0.4060	mg/L	0.00318	0.78%
Na 589.592†	203192.4	16.71	mg/L	0.045	16.71	mg/L	0.045	0.27%
Ni 231.604†	29974.2	0.7520	mg/L	0.00621	0.7520	mg/L	0.00621	0.83%
Pb 220.353†	224108.3	18.02	mg/L	0.127	18.02	mg/L	0.127	0.71%
Sb 206.836†	733.9	0.1255	mg/L	0.00197	0.1255	mg/L	0.00197	1.57%
Se 196.026†	747.9	0.3543	mg/L	0.00674	0.3543	mg/L	0.00674	1.90%
Sn 189.927†	3229.5	0.3752	mg/L	0.00240	0.3752	mg/L	0.00240	0.64%
Ti 337.279†	149278.3	7.878	mg/L	0.0088	7.878	mg/L	0.0088	0.11%
Tl 351.924†	2332.8	0.4180	mg/L	0.00195	0.4180	mg/L	0.00195	0.47%
V 290.880†	277945.9	1.226	mg/L	0.0073	1.226	mg/L	0.0073	0.60%
Zn 206.200†	156063.4	2.139	mg/L	0.0193	2.139	mg/L	0.0193	0.90%
Zr 343.823†	49864.2	0.1014	mg/L	0.00092	0.1014	mg/L	0.00092	0.91%

Sequence No.: 75

Sample ID: B371700-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 86

Date Collected: 4/17/2024 6:25:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-PS1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units			
Y axial	5310729.5	96.65 %	0.684				0.71%
Y radial	201757.1	105.0 %	0.68				0.65%
Ag 328.068†	529279.3	1.797 mg/L	0.0086	1.797 mg/L		0.0086	0.48%
Al 396.153†	908987.9	235.1 mg/L	0.88	235.1 mg/L		0.88	0.37%
As 188.979†	5056.4	1.698 mg/L	0.0062	1.698 mg/L		0.0062	0.37%
B 208.889†	63723.2	3.314 mg/L	0.0306	3.314 mg/L		0.0306	0.92%
Ba 233.527†	630130.0	3.670 mg/L	0.0200	3.670 mg/L		0.0200	0.55%
Be 313.107†	760338.5	1.710 mg/L	0.0069	1.710 mg/L		0.0069	0.41%
Ca 317.933†	439378.8	63.20 mg/L	0.269	63.20 mg/L		0.269	0.43%
Cd 228.802†	199372.1	1.728 mg/L	0.0086	1.728 mg/L		0.0086	0.50%
Co 228.616†	189324.6	1.860 mg/L	0.0095	1.860 mg/L		0.0095	0.51%
Cr 267.716†	262229.3	2.000 mg/L	0.0095	2.000 mg/L		0.0095	0.47%
Cu 327.393†	786649.8	4.423 mg/L	0.0131	4.423 mg/L		0.0131	0.30%
Fe 238.204†	990693.2	417.1 mg/L	1.89	417.1 mg/L		1.89	0.45%

K 766.490†	141684.1	42.80 mg/L	0.120	42.80 mg/L	0.120	0.28%
Mg 285.213†	931546.6	108.7 mg/L	0.40	108.7 mg/L	0.40	0.37%
Mn 257.610†	401260.1	16.09 mg/L	0.060	16.09 mg/L	0.060	0.37%
Mo 202.031†	42997.0	1.708 mg/L	0.0097	1.708 mg/L	0.0097	0.57%
Na 589.592†	298556.8	24.55 mg/L	0.093	24.55 mg/L	0.093	0.38%
Ni 231.604†	78124.8	1.960 mg/L	0.0089	1.960 mg/L	0.0089	0.46%
Pb 220.353†	27865.2	2.248 mg/L	0.0154	2.248 mg/L	0.0154	0.68%
Sb 206.836†	10614.5	1.671 mg/L	0.0068	1.671 mg/L	0.0068	0.41%
Se 196.026†	3327.6	1.637 mg/L	0.0057	1.637 mg/L	0.0057	0.35%
Sn 189.927†	13654.1	1.587 mg/L	0.0097	1.587 mg/L	0.0097	0.61%
Ti 337.279†	153736.7	8.113 mg/L	0.0358	8.113 mg/L	0.0358	0.44%
Tl 351.924†	18143.4	1.761 mg/L	0.0060	1.761 mg/L	0.0060	0.34%
V 290.880†	552349.3	2.458 mg/L	0.0156	2.458 mg/L	0.0156	0.64%
Zn 206.200†	329799.8	4.548 mg/L	0.0235	4.548 mg/L	0.0235	0.52%
Zr 343.823†	53729.4	0.1094 mg/L	0.00041	0.1094 mg/L	0.00041	0.37%

Sequence No.: 76

Sample ID: B371700-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 87

Date Collected: 4/17/2024 6:30:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	5344950.3	97.28 %		0.947			0.97%
Y radial	197167.7	102.6 %		0.70			0.68%
Ag 328.068†	-1335.5	-0.0027 mg/L		0.00021	-0.0027 mg/L	0.00021	7.70%
Al 396.153†	191977.2	49.67 mg/L		0.117	49.67 mg/L	0.117	0.23%
As 188.979†	-92.0	0.0157 mg/L		0.00372	0.0157 mg/L	0.00372	23.66%
B 208.889†	-217.4	-0.0115 mg/L		0.00148	-0.0115 mg/L	0.00148	12.94%
Ba 233.527†	74402.3	0.4265 mg/L		0.00508	0.4265 mg/L	0.00508	1.19%
Be 313.107†	1545.4	0.0027 mg/L		0.00003	0.0027 mg/L	0.00003	1.14%
Ca 317.933†	76396.1	10.99 mg/L		0.039	10.99 mg/L	0.039	0.36%
Cd 228.802†	-56.4	0.0013 mg/L		0.00011	0.0013 mg/L	0.00011	8.19%
Co 228.616†	5364.5	0.0501 mg/L		0.00053	0.0501 mg/L	0.00053	1.07%
Cr 267.716†	8457.7	0.0634 mg/L		0.00079	0.0634 mg/L	0.00079	1.24%
Cu 327.393†	24909.8	0.1401 mg/L		0.00144	0.1401 mg/L	0.00144	1.03%
Fe 238.204†	234099.5	98.55 mg/L		0.349	98.55 mg/L	0.349	0.35%
K 766.490†	21122.2	6.380 mg/L		0.0621	6.380 mg/L	0.0621	0.97%
Mg 285.213†	184468.8	21.54 mg/L		0.053	21.54 mg/L	0.053	0.25%
Mn 257.610†	80964.3	3.248 mg/L		0.0104	3.248 mg/L	0.0104	0.32%
Mo 202.031†	-66.8	-0.0027 mg/L		0.00030	-0.0027 mg/L	0.00030	11.48%
Na 589.592†	33725.4	2.774 mg/L		0.0091	2.774 mg/L	0.0091	0.33%
Ni 231.604†	3189.5	0.0801 mg/L		0.00089	0.0801 mg/L	0.00089	1.12%
Pb 220.353†	1905.4	0.1555 mg/L		0.00135	0.1555 mg/L	0.00135	0.87%
Sb 206.836†	-14.3	0.0014 mg/L		0.00060	0.0014 mg/L	0.00060	42.45%
Se 196.026†	11.0	0.0024 mg/L		0.00489	0.0024 mg/L	0.00489	201.10%
Sn 189.927†	-128.6	-0.0150 mg/L		0.00024	-0.0150 mg/L	0.00024	1.61%
Ti 337.279†	26439.5	1.395 mg/L		0.0044	1.395 mg/L	0.0044	0.31%
Tl 351.924†	-635.8	0.0051 mg/L		0.00066	0.0051 mg/L	0.00066	13.07%
V 290.880†	35458.4	0.1530 mg/L		0.00196	0.1530 mg/L	0.00196	1.28%
Zn 206.200†	21713.8	0.2945 mg/L		0.00412	0.2945 mg/L	0.00412	1.40%
Zr 343.823†	10662.6	0.0213 mg/L		0.00034	0.0213 mg/L	0.00034	1.59%

Sequence No.: 77

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 6:35:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y axial	5235913.7	95.29 %	0.143			0.15%
Y radial	197995.7	103.0 %	0.56			0.55%
Ag 328.068†	712197.5	2.378 mg/L	0.0135	2.378 mg/L	0.0135	0.57%
QC value within limits for Ag 328.068 Recovery = 95.11%						
Al 396.153†	38321.0	9.658 mg/L	0.0158	9.658 mg/L	0.0158	0.16%
QC value within limits for Al 396.153 Recovery = 96.58%						
As 188.979†	15737.6	4.704 mg/L	0.0380	4.704 mg/L	0.0380	0.81%
QC value within limits for As 188.979 Recovery = 94.08%						
B 208.889†	86753.5	4.386 mg/L	0.0178	4.386 mg/L	0.0178	0.41%
QC value less than the lower limit for B 208.889 Recovery = 87.72%						
Ba 233.527†	820862.5	4.855 mg/L	0.0128	4.855 mg/L	0.0128	0.26%
QC value within limits for Ba 233.527 Recovery = 97.10%						
Be 313.107†	1999070.3	4.505 mg/L	0.0208	4.505 mg/L	0.0208	0.46%
QC value within limits for Be 313.107 Recovery = 90.10%						
Ca 317.933†	64633.7	9.297 mg/L	0.0381	9.297 mg/L	0.0381	0.41%
QC value within limits for Ca 317.933 Recovery = 92.97%						
Cd 228.802†	556894.9	4.804 mg/L	0.0133	4.804 mg/L	0.0133	0.28%
QC value within limits for Cd 228.802 Recovery = 96.09%						
Co 228.616†	488040.1	4.829 mg/L	0.0147	4.829 mg/L	0.0147	0.30%
QC value within limits for Co 228.616 Recovery = 96.59%						
Cr 267.716†	632098.2	4.837 mg/L	0.0087	4.837 mg/L	0.0087	0.18%
QC value within limits for Cr 267.716 Recovery = 96.74%						
Cu 327.393†	839748.1	4.739 mg/L	0.0097	4.739 mg/L	0.0097	0.21%
QC value within limits for Cu 327.393 Recovery = 94.77%						
Fe 238.204†	11455.1	4.848 mg/L	0.0084	4.848 mg/L	0.0084	0.17%
QC value within limits for Fe 238.204 Recovery = 96.96%						
K 766.490†	29549.8	8.926 mg/L	0.0072	8.926 mg/L	0.0072	0.08%
QC value less than the lower limit for K 766.490 Recovery = 89.26%						
Mg 285.213†	81427.0	9.452 mg/L	0.0208	9.452 mg/L	0.0208	0.22%
QC value within limits for Mg 285.213 Recovery = 94.52%						
Mn 257.610†	120157.4	4.809 mg/L	0.0120	4.809 mg/L	0.0120	0.25%
QC value within limits for Mn 257.610 Recovery = 96.18%						
Mo 202.031†	121250.9	4.816 mg/L	0.0151	4.816 mg/L	0.0151	0.31%
QC value within limits for Mo 202.031 Recovery = 96.31%						
Na 589.592†	92811.4	7.633 mg/L	0.0342	7.633 mg/L	0.0342	0.45%
QC value less than the lower limit for Na 589.592 Recovery = 76.33%						
Ni 231.604†	192777.9	4.837 mg/L	0.0100	4.837 mg/L	0.0100	0.21%
QC value within limits for Ni 231.604 Recovery = 96.74%						
Pb 220.353†	60140.6	4.836 mg/L	0.0293	4.836 mg/L	0.0293	0.61%
QC value within limits for Pb 220.353 Recovery = 96.71%						
Sb 206.836†	30040.7	4.689 mg/L	0.0333	4.689 mg/L	0.0333	0.71%
QC value within limits for Sb 206.836 Recovery = 93.78%						
Se 196.026†	9448.3	4.697 mg/L	0.0308	4.697 mg/L	0.0308	0.66%
QC value within limits for Se 196.026 Recovery = 93.94%						
Sn 189.927†	41460.7	4.813 mg/L	0.0263	4.813 mg/L	0.0263	0.55%
QC value within limits for Sn 189.927 Recovery = 96.26%						
Ti 337.279†	88429.2	4.664 mg/L	0.0152	4.664 mg/L	0.0152	0.33%
QC value within limits for Ti 337.279 Recovery = 93.28%						
Tl 351.924†	28402.4	2.352 mg/L	0.0175	2.352 mg/L	0.0175	0.75%
QC value within limits for Tl 351.924 Recovery = 94.10%						
V 290.880†	1069777.5	4.814 mg/L	0.0178	4.814 mg/L	0.0178	0.37%
QC value within limits for V 290.880 Recovery = 96.28%						
Zn 206.200†	350325.9	4.883 mg/L	0.0074	4.883 mg/L	0.0074	0.15%
QC value within limits for Zn 206.200 Recovery = 97.65%						
Zr 343.823†	2162880.5	4.804 mg/L	0.0150	4.804 mg/L	0.0150	0.31%
QC Failed. Continue with analysis.						

Sequence No.: 78

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 6:41:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5366977.1	97.68 %	2.310			2.36%

Y radial	196836.3	102.4 %	0.84		0.82%
Ag 328.068†	592.3	0.0020 mg/L	0.00005	0.0020 mg/L	0.00005 2.36%
QC value within limits for Ag 328.068	Recovery = Not calculated				
Al 396.153†	12.8	0.0033 mg/L	0.00655	0.0033 mg/L	0.00655 200.52%
QC value within limits for Al 396.153	Recovery = Not calculated				
As 188.979†	-14.5	-0.0043 mg/L	0.00054	-0.0043 mg/L	0.00054 12.50%
QC value within limits for As 188.979	Recovery = Not calculated				
B 208.889†	-2112.9	-0.1128 mg/L	0.00044	-0.1128 mg/L	0.00044 0.39%
QC value within limits for B 208.889	Recovery = Not calculated				
Ba 233.527†	-1.6	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006 878.35%
QC value within limits for Ba 233.527	Recovery = Not calculated				
Be 313.107†	-6.1	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003 125.54%
QC value within limits for Be 313.107	Recovery = Not calculated				
Ca 317.933†	0.8	0.0001 mg/L	0.00159	0.0001 mg/L	0.00159 >999.9%
QC value within limits for Ca 317.933	Recovery = Not calculated				
Cd 228.802†	-4.7	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006 105.37%
QC value within limits for Cd 228.802	Recovery = Not calculated				
Co 228.616†	12.9	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003 26.85%
QC value within limits for Co 228.616	Recovery = Not calculated				
Cr 267.716†	-9.5	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006 85.00%
QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu 327.393†	-1090.9	-0.0061 mg/L	0.00029	-0.0061 mg/L	0.00029 4.76%
QC value within limits for Cu 327.393	Recovery = Not calculated				
Fe 238.204†	0.5	0.0002 mg/L	0.00106	0.0002 mg/L	0.00106 489.77%
QC value within limits for Fe 238.204	Recovery = Not calculated				
K 766.490†	188.6	0.0570 mg/L	0.00588	0.0570 mg/L	0.00588 10.33%
QC value within limits for K 766.490	Recovery = Not calculated				
Mg 285.213†	5.1	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009 14.66%
QC value within limits for Mg 285.213	Recovery = Not calculated				
Mn 257.610†	0.2	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016 >999.9%
QC value within limits for Mn 257.610	Recovery = Not calculated				
Mo 202.031†	29.9	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006 4.73%
QC value within limits for Mo 202.031	Recovery = Not calculated				
Na 589.592†	881.7	0.0725 mg/L	0.00263	0.0725 mg/L	0.00263 3.63%
QC value within limits for Na 589.592	Recovery = Not calculated				
Ni 231.604†	-0.8	-0.0000 mg/L	0.00023	-0.0000 mg/L	0.00023 987.83%
QC value within limits for Ni 231.604	Recovery = Not calculated				
Pb 220.353†	13.0	0.0011 mg/L	0.00051	0.0011 mg/L	0.00051 48.21%
QC value within limits for Pb 220.353	Recovery = Not calculated				
Sb 206.836†	2.6	0.0004 mg/L	0.00068	0.0004 mg/L	0.00068 157.03%
QC value within limits for Sb 206.836	Recovery = Not calculated				
Se 196.026†	0.1	0.0001 mg/L	0.00131	0.0001 mg/L	0.00131 >999.9%
QC value within limits for Se 196.026	Recovery = Not calculated				
Sn 189.927†	7.9	0.0009 mg/L	0.00019	0.0009 mg/L	0.00019 20.10%
QC value within limits for Sn 189.927	Recovery = Not calculated				
Ti 337.279†	13.0	0.0007 mg/L	0.00036	0.0007 mg/L	0.00036 52.34%
QC value within limits for Ti 337.279	Recovery = Not calculated				
Tl 351.924†	55.4	0.0047 mg/L	0.00425	0.0047 mg/L	0.00425 91.42%
QC value within limits for Tl 351.924	Recovery = Not calculated				
V 290.880†	430.9	0.0019 mg/L	0.00091	0.0019 mg/L	0.00091 46.69%
QC value within limits for V 290.880	Recovery = Not calculated				
Zn 206.200†	-85.3	-0.0012 mg/L	0.00009	-0.0012 mg/L	0.00009 7.78%
QC value within limits for Zn 206.200	Recovery = Not calculated				
Zr 343.823†	-30.6	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011 163.51%
All analyte(s) passed QC.					

Sequence No.: 79

Sample ID: B371700-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 88

Date Collected: 4/17/2024 6:47:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371700-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5224497.5	95.08 %	0.455			0.48%
Y radial	199509.6	103.8 %	0.87			0.83%

Ag 328.068†	-8586.9	-0.0204 mg/L	0.00039	-0.0204 mg/L	0.00039	1.93%
Al 396.153†	993278.8	257.0 mg/L	3.36	257.0 mg/L	3.36	1.31%
As 188.979†	-445.8	0.0750 mg/L	0.00212	0.0750 mg/L	0.00212	2.82%
B 208.889†	6025.4	0.3222 mg/L	0.00250	0.3222 mg/L	0.00250	0.78%
Ba 233.527†	312040.0	1.786 mg/L	0.0115	1.786 mg/L	0.0115	0.64%
Be 313.107†	7231.0	0.0125 mg/L	0.00003	0.0125 mg/L	0.00003	0.20%
Ca 317.933†	517002.1	74.37 mg/L	0.859	74.37 mg/L	0.859	1.16%
Cd 228.802†	-354.5	0.0050 mg/L	0.00010	0.0050 mg/L	0.00010	1.95%
Co 228.616†	28196.9	0.2620 mg/L	0.00132	0.2620 mg/L	0.00132	0.50%
Cr 267.716†	41573.0	0.3126 mg/L	0.00150	0.3126 mg/L	0.00150	0.48%
Cu 327.393†	136226.2	0.7664 mg/L	0.00445	0.7664 mg/L	0.00445	0.58%
Fe 238.204†	1038379.7	437.1 mg/L	4.57	437.1 mg/L	4.57	1.05%
K 766.490†	103455.5	31.25 mg/L	0.405	31.25 mg/L	0.405	1.30%
Mg 285.213†	1056868.7	123.3 mg/L	1.50	123.3 mg/L	1.50	1.22%
Mn 257.610†	333414.3	13.38 mg/L	0.151	13.38 mg/L	0.151	1.13%
Mo 202.031†	-379.6	-0.0151 mg/L	0.00047	-0.0151 mg/L	0.00047	3.09%
Na 589.592†	186160.7	15.31 mg/L	0.195	15.31 mg/L	0.195	1.28%
Ni 231.604†	17315.2	0.4347 mg/L	0.00243	0.4347 mg/L	0.00243	0.56%
Pb 220.353†	6777.0	0.5592 mg/L	0.00229	0.5592 mg/L	0.00229	0.41%
Sb 206.836†	-67.3	0.0055 mg/L	0.00119	0.0055 mg/L	0.00119	21.66%
Se 196.026†	9.8	-0.0164 mg/L	0.00288	-0.0164 mg/L	0.00288	17.51%
Sn 189.927†	-207.3	-0.0242 mg/L	0.00163	-0.0242 mg/L	0.00163	6.74%
Ti 337.279†	148404.6	7.832 mg/L	0.0080	7.832 mg/L	0.0080	0.10%
Tl 351.924†	-3576.3	-0.0473 mg/L	0.00576	-0.0473 mg/L	0.00576	12.18%
V 290.880†	177576.2	0.7706 mg/L	0.00665	0.7706 mg/L	0.00665	0.86%
Zn 206.200†	95987.8	1.302 mg/L	0.0080	1.302 mg/L	0.0080	0.61%
Zr 343.823†	58865.4	0.1203 mg/L	0.00214	0.1203 mg/L	0.00214	1.78%

Sequence No.: 80

Sample ID: 24D2024-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 89

Date Collected: 4/17/2024 6:51:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D2024-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5383031.0	97.97	%	0.285				0.29%
Y radial	201425.6	104.8	%	0.49				0.47%
Ag 328.068†	-7750.0	-0.0185	mg/L	0.00045	-0.0185	mg/L	0.00045	2.44%
Al 396.153†	905099.8	234.2	mg/L	1.54	234.2	mg/L	1.54	0.66%
As 188.979†	-360.7	0.0787	mg/L	0.00350	0.0787	mg/L	0.00350	4.44%
B 208.889†	5793.2	0.3097	mg/L	0.00181	0.3097	mg/L	0.00181	0.58%
Ba 233.527†	338619.7	1.946	mg/L	0.0107	1.946	mg/L	0.0107	0.55%
Be 313.107†	7122.6	0.0126	mg/L	0.00015	0.0126	mg/L	0.00015	1.21%
Ca 317.933†	351153.9	50.51	mg/L	0.405	50.51	mg/L	0.405	0.80%
Cd 228.802†	-214.9	0.0054	mg/L	0.00009	0.0054	mg/L	0.00009	1.68%
Co 228.616†	23737.7	0.2210	mg/L	0.00026	0.2210	mg/L	0.00026	0.12%
Cr 267.716†	38516.6	0.2887	mg/L	0.00150	0.2887	mg/L	0.00150	0.52%
Cu 327.393†	124437.9	0.7000	mg/L	0.00862	0.7000	mg/L	0.00862	1.23%
Fe 238.204†	980052.6	412.6	mg/L	2.94	412.6	mg/L	2.94	0.71%
K 766.490†	96693.5	29.21	mg/L	0.178	29.21	mg/L	0.178	0.61%
Mg 285.213†	828573.7	96.74	mg/L	0.624	96.74	mg/L	0.624	0.65%
Mn 257.610†	365835.8	14.67	mg/L	0.111	14.67	mg/L	0.111	0.75%
Mo 202.031†	-320.0	-0.0127	mg/L	0.00067	-0.0127	mg/L	0.00067	5.25%
Na 589.592†	149416.9	12.29	mg/L	0.097	12.29	mg/L	0.097	0.79%
Ni 231.604†	13770.2	0.3457	mg/L	0.00067	0.3457	mg/L	0.00067	0.19%
Pb 220.353†	8064.6	0.6609	mg/L	0.00084	0.6609	mg/L	0.00084	0.13%
Sb 206.836†	-74.8	0.0035	mg/L	0.00316	0.0035	mg/L	0.00316	91.25%
Se 196.026†	20.7	-0.0045	mg/L	0.00387	-0.0045	mg/L	0.00387	86.26%
Sn 189.927†	-159.0	-0.0186	mg/L	0.00099	-0.0186	mg/L	0.00099	5.33%
Ti 337.279†	121808.2	6.428	mg/L	0.0383	6.428	mg/L	0.0383	0.60%
Tl 351.924†	-3358.7	-0.0399	mg/L	0.00101	-0.0399	mg/L	0.00101	2.54%
V 290.880†	163118.1	0.7067	mg/L	0.00633	0.7067	mg/L	0.00633	0.90%
Zn 206.200†	96774.2	1.314	mg/L	0.0024	1.314	mg/L	0.0024	0.19%
Zr 343.823†	52254.5	0.1062	mg/L	0.00089	0.1062	mg/L	0.00089	0.84%

Sequence No.: 81
 Sample ID: 24D1496-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 90
 Date Collected: 4/17/2024 6:56:30 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1496-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5166826.4	94.03 %		0.436			0.46%
Y radial	195756.0	101.9 %		0.37			0.37%
Ag 328.068†	-6067.7	-0.0140 mg/L		0.00040	-0.0140 mg/L	0.00040	2.86%
Al 396.153†	1381721.1	357.5 mg/L		2.06	357.5 mg/L	2.06	0.58%
As 188.979†	-297.8	0.0538 mg/L		0.00195	0.0538 mg/L	0.00195	3.62%
B 208.889†	-461.4	-0.0239 mg/L		0.00051	-0.0239 mg/L	0.00051	2.12%
Ba 233.527†	387711.7	2.245 mg/L		0.0138	2.245 mg/L	0.0138	0.62%
Be 313.107†	7172.4	0.0138 mg/L		0.00008	0.0138 mg/L	0.00008	0.59%
Ca 317.933†	3492302.8	502.3 mg/L		3.35	502.3 mg/L	3.35	0.67%
Cd 228.802†	-433.3	0.0026 mg/L		0.00002	0.0026 mg/L	0.00002	0.62%
Co 228.616†	16039.4	0.1515 mg/L		0.00089	0.1515 mg/L	0.00089	0.59%
Cr 267.716†	55814.3	0.4250 mg/L		0.00241	0.4250 mg/L	0.00241	0.57%
Cu 327.393†	50983.3	0.2875 mg/L		0.00196	0.2875 mg/L	0.00196	0.68%
Fe 238.204†	808639.1	340.4 mg/L		2.04	340.4 mg/L	2.04	0.60%
K 766.490†	124319.3	37.55 mg/L		0.199	37.55 mg/L	0.199	0.53%
Mg 285.213†	1323313.5	154.1 mg/L		0.94	154.1 mg/L	0.94	0.61%
Mn 257.610†	123328.6	4.962 mg/L		0.0052	4.962 mg/L	0.0052	0.10%
Mo 202.031†	-376.5	-0.0150 mg/L		0.00040	-0.0150 mg/L	0.00040	2.69%
Na 589.592†	249234.4	20.50 mg/L		0.133	20.50 mg/L	0.133	0.65%
Ni 231.604†	16547.3	0.4154 mg/L		0.00289	0.4154 mg/L	0.00289	0.69%
Pb 220.353†	3469.7	0.3117 mg/L		0.00245	0.3117 mg/L	0.00245	0.79%
Sb 206.836†	13.6	0.0108 mg/L		0.00090	0.0108 mg/L	0.00090	8.38%
Se 196.026†	16.9	-0.0640 mg/L		0.00284	-0.0640 mg/L	0.00284	4.45%
Sn 189.927†	-401.4	-0.0469 mg/L		0.00164	-0.0469 mg/L	0.00164	3.49%
Ti 337.279†	62306.7	3.288 mg/L		0.0061	3.288 mg/L	0.0061	0.19%
Tl 351.924†	-2881.6	-0.0350 mg/L		0.00388	-0.0350 mg/L	0.00388	11.07%
V 290.880†	111035.2	0.4763 mg/L		0.00342	0.4763 mg/L	0.00342	0.72%
Zn 206.200†	71632.8	0.9713 mg/L		0.00542	0.9713 mg/L	0.00542	0.56%
Zr 343.823†	101227.4	0.2167 mg/L		0.00230	0.2167 mg/L	0.00230	1.06%

Sequence No.: 82
 Sample ID: 24D1496-02
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 91
 Date Collected: 4/17/2024 7:01:11 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1496-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4397922.3	80.04 %		0.734			0.92%
Y radial	175672.6	91.43 %		0.283			0.31%
Ag 328.068†	-4498.4	-0.0165 mg/L		0.00037	-0.0165 mg/L	0.00037	2.24%
Al 396.153†	332976.8	86.15 mg/L		0.319	86.15 mg/L	0.319	0.37%
As 188.979†	-64.0	0.0898 mg/L		0.00688	0.0898 mg/L	0.00688	7.66%
B 208.889†	164.2	0.0091 mg/L		0.00056	0.0091 mg/L	0.00056	6.21%
Ba 233.527†	327545.8	1.910 mg/L		0.0132	1.910 mg/L	0.0132	0.69%
Be 313.107†	2047.1	0.0037 mg/L		0.00024	0.0037 mg/L	0.00024	6.42%
Ca 317.933†	13652692.8	1964 mg/L		18.31	1964 mg/L	18.31	0.93%
Cd 228.802†	1102.0	0.0125 mg/L		0.00027	0.0125 mg/L	0.00027	2.19%
Co 228.616†	7162.3	0.0681 mg/L		0.00047	0.0681 mg/L	0.00047	0.69%
Cr 267.716†	17184.3	0.1225 mg/L		0.00131	0.1225 mg/L	0.00131	1.07%
Cu 327.393†	56613.2	0.3188 mg/L		0.00260	0.3188 mg/L	0.00260	0.82%
Fe 238.204†	436103.2	183.6 mg/L		0.61	183.6 mg/L	0.61	0.33%
K 766.490†	73954.1	22.34 mg/L		0.119	22.34 mg/L	0.119	0.53%
Mg 285.213†	5232072.8	608.4 mg/L		6.92	608.4 mg/L	6.92	1.14%

Mn 257.610†	525341.3	21.04 mg/L	0.079	21.04 mg/L	0.079	0.38%
Mo 202.031†	-168.4	-0.0067 mg/L	0.00024	-0.0067 mg/L	0.00024	3.61%
Na 589.592†	48949.4	4.026 mg/L	0.0132	4.026 mg/L	0.0132	0.33%
Ni 231.604†	6222.0	0.1562 mg/L	0.00159	0.1562 mg/L	0.00159	1.02%
Pb 220.353†	8757.6	0.7061 mg/L	0.00590	0.7061 mg/L	0.00590	0.84%
Sb 206.836†	62.6	0.0160 mg/L	0.00235	0.0160 mg/L	0.00235	14.68%
Se 196.026†	50.3	-0.2976 mg/L	0.00668	-0.2976 mg/L	0.00668	2.24%
Sn 189.927†	-589.6	-0.0687 mg/L	0.00166	-0.0687 mg/L	0.00166	2.42%
Ti 337.279†	25474.9	1.344 mg/L	0.0175	1.344 mg/L	0.0175	1.30%
Tl 351.924†	-1481.1	-0.0110 mg/L	0.00253	-0.0110 mg/L	0.00253	23.04%
V 290.880†	41967.4	0.1761 mg/L	0.00193	0.1761 mg/L	0.00193	1.10%
Zn 206.200†	146766.7	2.023 mg/L	0.0094	2.023 mg/L	0.0094	0.47%
Zr 343.823†	59845.4	0.1286 mg/L	0.00173	0.1286 mg/L	0.00173	1.34%

Sequence No.: 83

Sample ID: 24D1675-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 92

Date Collected: 4/17/2024 7:05:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1675-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4375669.3	79.64 %		0.475			0.60%
Y radial	176067.8	91.64 %		0.368			0.40%
Ag 328.068†	-4529.1	-0.0169 mg/L		0.00069	-0.0169 mg/L	0.00069	4.05%
Al 396.153†	362577.7	93.81 mg/L		0.309	93.81 mg/L	0.309	0.33%
As 188.979†	-30.0	0.1069 mg/L		0.00817	0.1069 mg/L	0.00817	7.65%
B 208.889†	315.4	0.0171 mg/L		0.00115	0.0171 mg/L	0.00115	6.75%
Ba 233.527†	260141.0	1.510 mg/L		0.0034	1.510 mg/L	0.0034	0.23%
Be 313.107†	2072.4	0.0037 mg/L		0.00002	0.0037 mg/L	0.00002	0.52%
Ca 317.933†	15057681.1	2166 mg/L		8.63	2166 mg/L	8.63	0.40%
Cd 228.802†	629.4	0.0084 mg/L		0.00010	0.0084 mg/L	0.00010	1.14%
Co 228.616†	8254.5	0.0791 mg/L		0.00046	0.0791 mg/L	0.00046	0.58%
Cr 267.716†	18714.7	0.1329 mg/L		0.00058	0.1329 mg/L	0.00058	0.44%
Cu 327.393†	48145.1	0.2711 mg/L		0.00100	0.2711 mg/L	0.00100	0.37%
Fe 238.204†	466180.7	196.3 mg/L		0.67	196.3 mg/L	0.67	0.34%
K 766.490†	77418.8	23.39 mg/L		0.107	23.39 mg/L	0.107	0.46%
Mg 285.213†	5098156.1	592.8 mg/L		2.30	592.8 mg/L	2.30	0.39%
Mn 257.610†	602621.9	24.13 mg/L		0.074	24.13 mg/L	0.074	0.31%
Mo 202.031†	-133.2	-0.0053 mg/L		0.00032	-0.0053 mg/L	0.00032	6.02%
Na 589.592†	45678.0	3.757 mg/L		0.0259	3.757 mg/L	0.0259	0.69%
Ni 231.604†	6690.3	0.1680 mg/L		0.00141	0.1680 mg/L	0.00141	0.84%
Pb 220.353†	6815.5	0.5505 mg/L		0.00414	0.5505 mg/L	0.00414	0.75%
Sb 206.836†	77.0	0.0187 mg/L		0.00021	0.0187 mg/L	0.00021	1.13%
Se 196.026†	70.7	-0.3056 mg/L		0.00824	-0.3056 mg/L	0.00824	2.69%
Sn 189.927†	-594.8	-0.0692 mg/L		0.00228	-0.0692 mg/L	0.00228	3.29%
Ti 337.279†	23195.5	1.224 mg/L		0.0157	1.224 mg/L	0.0157	1.28%
Tl 351.924†	-1586.6	-0.0112 mg/L		0.00116	-0.0112 mg/L	0.00116	10.32%
V 290.880†	44639.7	0.1871 mg/L		0.00027	0.1871 mg/L	0.00027	0.14%
Zn 206.200†	95583.8	1.313 mg/L		0.0060	1.313 mg/L	0.0060	0.46%
Zr 343.823†	53163.3	0.1134 mg/L		0.00050	0.1134 mg/L	0.00050	0.44%

Sequence No.: 84

Sample ID: 24D1969-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 93

Date Collected: 4/17/2024 7:10:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1969-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4697659.9	85.50 %		1.157			1.35%
Y radial	180529.1	93.96 %		0.786			0.84%

Ag 328.068†	-7345.4	-0.0193 mg/L	0.00040	-0.0193 mg/L	0.00040	2.08%
Al 396.153†	537911.0	139.2 mg/L	0.64	139.2 mg/L	0.64	0.46%
As 188.979†	-224.2	0.1028 mg/L	0.00695	0.1028 mg/L	0.00695	6.76%
B 208.889†	-2127.2	-0.1131 mg/L	0.00047	-0.1131 mg/L	0.00047	0.42%
Ba 233.527†	103512.4	0.5663 mg/L	0.00334	0.5663 mg/L	0.00334	0.59%
Be 313.107†	2941.5	0.0055 mg/L	0.00022	0.0055 mg/L	0.00022	4.03%
Ca 317.933†	5502657.0	791.5 mg/L	2.38	791.5 mg/L	2.38	0.30%
Cd 228.802†	375.3	0.0087 mg/L	0.00021	0.0087 mg/L	0.00021	2.38%
Co 228.616†	15460.3	0.1416 mg/L	0.00242	0.1416 mg/L	0.00242	1.71%
Cr 267.716†	23411.5	0.1760 mg/L	0.00260	0.1760 mg/L	0.00260	1.48%
Cu 327.393†	55928.3	0.3149 mg/L	0.00152	0.3149 mg/L	0.00152	0.48%
Fe 238.204†	811186.6	341.5 mg/L	1.06	341.5 mg/L	1.06	0.31%
K 766.490†	78422.4	23.69 mg/L	0.099	23.69 mg/L	0.099	0.42%
Mg 285.213†	3504049.9	407.8 mg/L	1.64	407.8 mg/L	1.64	0.40%
Mn 257.610†	187254.0	7.520 mg/L	0.0271	7.520 mg/L	0.0271	0.36%
Mo 202.031†	-183.6	-0.0073 mg/L	0.00053	-0.0073 mg/L	0.00053	7.20%
Na 589.592†	68702.5	5.650 mg/L	0.0325	5.650 mg/L	0.0325	0.58%
Ni 231.604†	10094.8	0.2535 mg/L	0.00377	0.2535 mg/L	0.00377	1.49%
Pb 220.353†	1735.0	0.1445 mg/L	0.00160	0.1445 mg/L	0.00160	1.11%
Sb 206.836†	1.4	0.0131 mg/L	0.00043	0.0131 mg/L	0.00043	3.26%
Se 196.026†	31.7	-0.1374 mg/L	0.00770	-0.1374 mg/L	0.00770	5.61%
Sn 189.927†	-478.3	-0.0557 mg/L	0.00032	-0.0557 mg/L	0.00032	0.57%
Ti 337.279†	98469.6	5.197 mg/L	0.0104	5.197 mg/L	0.0104	0.20%
Tl 351.924†	-2660.2	-0.0210 mg/L	0.00224	-0.0210 mg/L	0.00224	10.68%
V 290.880†	55588.8	0.2275 mg/L	0.00133	0.2275 mg/L	0.00133	0.58%
Zn 206.200†	113548.2	1.552 mg/L	0.0088	1.552 mg/L	0.0088	0.57%
Zr 343.823†	60456.6	0.1261 mg/L	0.00037	0.1261 mg/L	0.00037	0.29%

Sequence No.: 85

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/17/2024 7:15:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5323495.9	96.89	%	0.539				0.56%
Y radial	192311.2	100.1	%	0.87				0.86%
Ag 328.068†	708.4	0.0024 mg/L		0.00041	0.0024 mg/L		0.00041	17.17%
Al 396.153†	41.0	0.0106 mg/L		0.00618	0.0106 mg/L		0.00618	58.17%
As 188.979†	-9.7	-0.0029 mg/L		0.00132	-0.0029 mg/L		0.00132	46.32%
B 208.889†	-2288.7	-0.1221 mg/L		0.00018	-0.1221 mg/L		0.00018	0.15%
Ba 233.527†	20.6	0.0001 mg/L		0.00004	0.0001 mg/L		0.00004	35.84%
Be 313.107†	-31.0	-0.0001 mg/L		0.00004	-0.0001 mg/L		0.00004	55.78%
Ca 317.933†	286.7	0.0412 mg/L		0.00869	0.0412 mg/L		0.00869	21.07%
Cd 228.802†	-6.0	0.0000 mg/L		0.00010	0.0000 mg/L		0.00010	871.27%
Co 228.616†	-0.1	-0.0000 mg/L		0.00003	-0.0000 mg/L		0.00003	>999.9%
Cr 267.716†	-29.4	-0.0002 mg/L		0.00012	-0.0002 mg/L		0.00012	54.24%
Cu 327.393†	-1365.3	-0.0077 mg/L		0.00019	-0.0077 mg/L		0.00019	2.51%
Fe 238.204†	29.4	0.0124 mg/L		0.00353	0.0124 mg/L		0.00353	28.53%
K 766.490†	272.8	0.0824 mg/L		0.01994	0.0824 mg/L		0.01994	24.20%
Mg 285.213†	147.9	0.0172 mg/L		0.00434	0.0172 mg/L		0.00434	25.21%
Mn 257.610†	17.0	0.0007 mg/L		0.00022	0.0007 mg/L		0.00022	32.07%
Mo 202.031†	-2.8	-0.0001 mg/L		0.00004	-0.0001 mg/L		0.00004	36.35%
Na 589.592†	780.7	0.0642 mg/L		0.00147	0.0642 mg/L		0.00147	2.29%
Ni 231.604†	-7.9	-0.0002 mg/L		0.00038	-0.0002 mg/L		0.00038	190.45%
Pb 220.353†	0.8	0.0001 mg/L		0.00113	0.0001 mg/L		0.00113	>999.9%
Sb 206.836†	4.1	0.0007 mg/L		0.00077	0.0007 mg/L		0.00077	118.00%
Se 196.026†	1.5	0.0007 mg/L		0.00361	0.0007 mg/L		0.00361	501.46%
Sn 189.927†	3.9	0.0004 mg/L		0.00021	0.0004 mg/L		0.00021	46.92%
Ti 337.279†	18.9	0.0010 mg/L		0.00027	0.0010 mg/L		0.00027	26.77%
Tl 351.924†	8.4	0.0007 mg/L		0.00182	0.0007 mg/L		0.00182	258.32%
V 290.880†	448.0	0.0020 mg/L		0.00046	0.0020 mg/L		0.00046	22.98%
Zn 206.200†	-101.3	-0.0014 mg/L		0.00004	-0.0014 mg/L		0.00004	3.01%
Zr 343.823†	-144.5	-0.0003 mg/L		0.00016	-0.0003 mg/L		0.00016	51.17%

Sequence No.: 86
 Sample ID: B371474-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 94
 Date Collected: 4/17/2024 7:20:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371474-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5170893.1	94.11 %		2.268			2.41%
Y radial	188617.2	98.17 %		1.305			1.33%
Ag 328.068†	473.2	0.0016 mg/L		0.00047	0.0016 mg/L	0.00047	29.70%
Al 396.153†	50.5	0.0130 mg/L		0.00461	0.0130 mg/L	0.00461	35.43%
As 188.979†	-39.6	-0.0118 mg/L		0.00140	-0.0118 mg/L	0.00140	11.88%
B 208.889†	-2221.3	-0.1185 mg/L		0.00065	-0.1185 mg/L	0.00065	0.55%
Ba 233.527†	19.3	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	25.96%
Be 313.107†	-90.9	-0.0002 mg/L		0.00002	-0.0002 mg/L	0.00002	8.05%
Ca 317.933†	292.3	0.0420 mg/L		0.00414	0.0420 mg/L	0.00414	9.85%
Cd 228.802†	46.2	0.0007 mg/L		0.00005	0.0007 mg/L	0.00005	6.74%
Co 228.616†	-21.5	-0.0002 mg/L		0.00011	-0.0002 mg/L	0.00011	50.93%
Cr 267.716†	118.7	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	11.60%
Cu 327.393†	-289.8	-0.0016 mg/L		0.00015	-0.0016 mg/L	0.00015	9.08%
Fe 238.204†	24.1	0.0101 mg/L		0.00206	0.0101 mg/L	0.00206	20.33%
K 766.490†	343.3	0.1037 mg/L		0.02129	0.1037 mg/L	0.02129	20.53%
Mg 285.213†	60.3	0.0070 mg/L		0.00062	0.0070 mg/L	0.00062	8.89%
Mn 257.610†	84.8	0.0034 mg/L		0.00005	0.0034 mg/L	0.00005	1.43%
Mo 202.031†	21.2	0.0008 mg/L		0.00049	0.0008 mg/L	0.00049	57.77%
Na 589.592†	831.9	0.0684 mg/L		0.00374	0.0684 mg/L	0.00374	5.47%
Ni 231.604†	106.2	0.0027 mg/L		0.00038	0.0027 mg/L	0.00038	14.11%
Pb 220.353†	-34.4	-0.0028 mg/L		0.00023	-0.0028 mg/L	0.00023	8.31%
Sb 206.836†	20.9	0.0035 mg/L		0.00025	0.0035 mg/L	0.00025	7.03%
Se 196.026†	-4.4	-0.0022 mg/L		0.00129	-0.0022 mg/L	0.00129	58.92%
Sn 189.927†	353.0	0.0410 mg/L		0.00125	0.0410 mg/L	0.00125	3.04%
Ti 337.279†	38.1	0.0020 mg/L		0.00037	0.0020 mg/L	0.00037	18.18%
Tl 351.924†	100.6	0.0085 mg/L		0.00406	0.0085 mg/L	0.00406	47.93%
V 290.880†	338.8	0.0015 mg/L		0.00102	0.0015 mg/L	0.00102	67.04%
Zn 206.200†	13.1	0.0002 mg/L		0.00012	0.0002 mg/L	0.00012	69.42%
Zr 343.823†	337.3	0.0007 mg/L		0.00021	0.0007 mg/L	0.00021	28.57%

Sequence No.: 87
 Sample ID: B371474-BS1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 95
 Date Collected: 4/17/2024 7:26:20 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371474-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5108179.2	92.97 %		1.357			1.46%
Y radial	182731.4	95.10 %		0.683			0.72%
Ag 328.068†	221606.1	0.7497 mg/L		0.01223	0.7497 mg/L	0.01223	1.63%
Al 396.153†	193076.0	49.90 mg/L		0.745	49.90 mg/L	0.745	1.49%
As 188.979†	8726.5	2.642 mg/L		0.0304	2.642 mg/L	0.0304	1.15%
B 208.889†	34444.0	1.773 mg/L		0.0200	1.773 mg/L	0.0200	1.13%
Ba 233.527†	486299.5	2.866 mg/L		0.0493	2.866 mg/L	0.0493	1.72%
Be 313.107†	702001.0	1.585 mg/L		0.0235	1.585 mg/L	0.0235	1.48%
Ca 317.933†	324383.3	46.66 mg/L		0.599	46.66 mg/L	0.599	1.28%
Cd 228.802†	228327.8	1.951 mg/L		0.0314	1.951 mg/L	0.0314	1.61%
Co 228.616†	76737.7	0.7548 mg/L		0.01317	0.7548 mg/L	0.01317	1.75%
Cr 267.716†	219915.5	1.681 mg/L		0.0278	1.681 mg/L	0.0278	1.65%
Cu 327.393†	342462.1	1.926 mg/L		0.0310	1.926 mg/L	0.0310	1.61%
Fe 238.204†	126232.4	53.14 mg/L		0.695	53.14 mg/L	0.695	1.31%
K 766.490†	34842.8	10.52 mg/L		0.189	10.52 mg/L	0.189	1.80%
Mg 285.213†	122755.0	14.31 mg/L		0.191	14.31 mg/L	0.191	1.33%

Mn 257.610†	128969.2	5.165 mg/L	0.0682	5.165 mg/L	0.0682	1.32%
Mo 202.031†	32515.7	1.291 mg/L	0.0155	1.291 mg/L	0.0155	1.20%
Na 589.592†	49808.4	4.096 mg/L	0.0624	4.096 mg/L	0.0624	1.52%
Ni 231.604†	113497.5	2.847 mg/L	0.0478	2.847 mg/L	0.0478	1.68%
Pb 220.353†	10324.5	0.8327 mg/L	0.01009	0.8327 mg/L	0.01009	1.21%
Sb 206.836†	5830.5	0.8969 mg/L	0.01334	0.8969 mg/L	0.01334	1.49%
Se 196.026†	2926.4	1.448 mg/L	0.0160	1.448 mg/L	0.0160	1.11%
Sn 189.927†	5772.7	0.6708 mg/L	0.00920	0.6708 mg/L	0.00920	1.37%
Ti 337.279†	55622.7	2.935 mg/L	0.0389	2.935 mg/L	0.0389	1.33%
Tl 351.924†	21830.8	1.859 mg/L	0.0200	1.859 mg/L	0.0200	1.08%
V 290.880†	217817.7	0.9771 mg/L	0.01699	0.9771 mg/L	0.01699	1.74%
Zn 206.200†	110573.3	1.539 mg/L	0.0239	1.539 mg/L	0.0239	1.55%
Zr 343.823†	28830.9	0.0628 mg/L	0.00125	0.0628 mg/L	0.00125	2.00%

Sequence No.: 88

Sample ID: B371474-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 96

Date Collected: 4/17/2024 7:30:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371474-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5134571.7	93.45 %	0.391			0.42%
Y radial	184561.7	96.06 %	0.531			0.55%
Ag 328.068†	232649.0	0.7872 mg/L	0.00619	0.7872 mg/L	0.00619	0.79%
Al 396.153†	201183.7	51.99 mg/L	0.216	51.99 mg/L	0.216	0.42%
As 188.979†	9250.8	2.799 mg/L	0.0148	2.799 mg/L	0.0148	0.53%
B 208.889†	36927.4	1.900 mg/L	0.0192	1.900 mg/L	0.0192	1.01%
Ba 233.527†	560941.6	3.307 mg/L	0.0277	3.307 mg/L	0.0277	0.84%
Be 313.107†	766016.7	1.730 mg/L	0.0046	1.730 mg/L	0.0046	0.27%
Ca 317.933†	353824.8	50.89 mg/L	0.054	50.89 mg/L	0.054	0.11%
Cd 228.802†	258166.4	2.210 mg/L	0.0184	2.210 mg/L	0.0184	0.83%
Co 228.616†	84031.0	0.8269 mg/L	0.00668	0.8269 mg/L	0.00668	0.81%
Cr 267.716†	242764.4	1.856 mg/L	0.0143	1.856 mg/L	0.0143	0.77%
Cu 327.393†	382094.3	2.148 mg/L	0.0183	2.148 mg/L	0.0183	0.85%
Fe 238.204†	132842.8	55.93 mg/L	0.117	55.93 mg/L	0.117	0.21%
K 766.490†	35319.5	10.67 mg/L	0.038	10.67 mg/L	0.038	0.36%
Mg 285.213†	127829.2	14.91 mg/L	0.036	14.91 mg/L	0.036	0.24%
Mn 257.610†	133331.6	5.340 mg/L	0.0112	5.340 mg/L	0.0112	0.21%
Mo 202.031†	35315.5	1.403 mg/L	0.0095	1.403 mg/L	0.0095	0.68%
Na 589.592†	50405.4	4.145 mg/L	0.0231	4.145 mg/L	0.0231	0.56%
Ni 231.604†	125592.6	3.150 mg/L	0.0277	3.150 mg/L	0.0277	0.88%
Pb 220.353†	10622.9	0.8567 mg/L	0.00604	0.8567 mg/L	0.00604	0.71%
Sb 206.836†	6117.5	0.9395 mg/L	0.00720	0.9395 mg/L	0.00720	0.77%
Se 196.026†	3149.1	1.558 mg/L	0.0137	1.558 mg/L	0.0137	0.88%
Sn 189.927†	6008.7	0.6982 mg/L	0.00605	0.6982 mg/L	0.00605	0.87%
Ti 337.279†	56853.0	3.000 mg/L	0.0039	3.000 mg/L	0.0039	0.13%
Tl 351.924†	25022.5	2.129 mg/L	0.0193	2.129 mg/L	0.0193	0.90%
V 290.880†	235582.4	1.057 mg/L	0.0092	1.057 mg/L	0.0092	0.87%
Zn 206.200†	120490.1	1.677 mg/L	0.0168	1.677 mg/L	0.0168	1.00%
Zr 343.823†	29301.1	0.0637 mg/L	0.00048	0.0637 mg/L	0.00048	0.76%

Sequence No.: 89

Sample ID: B371474-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 97

Date Collected: 4/17/2024 7:35:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371474-MS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4558182.7	82.96 %	0.412			0.50%
Y radial	177246.8	92.25 %	1.410			1.53%

Ag	328.068†	137643.1	0.4794 mg/L	0.00368	0.4794 mg/L	0.00368	0.77%
Al	396.153†	688458.4	178.1 mg/L	0.30	178.1 mg/L	0.30	0.17%
As	188.979†	2469.7	1.078 mg/L	0.0059	1.078 mg/L	0.0059	0.55%
B	208.889†	16693.5	0.8684 mg/L	0.00806	0.8684 mg/L	0.00806	0.93%
Ba	233.527†	493482.8	2.834 mg/L	0.0151	2.834 mg/L	0.0151	0.53%
Be	313.107†	210677.6	0.4714 mg/L	0.00089	0.4714 mg/L	0.00089	0.19%
Ca	317.933†	4198997.9	604.0 mg/L	10.70	604.0 mg/L	10.70	1.77%
Cd	228.802†	55934.9	0.4817 mg/L	0.00292	0.4817 mg/L	0.00292	0.61%
Co	228.616†	60147.3	0.5638 mg/L	0.00333	0.5638 mg/L	0.00333	0.59%
Cr	267.716†	117656.4	0.8983 mg/L	0.00474	0.8983 mg/L	0.00474	0.53%
Cu	327.393†	637728.6	3.586 mg/L	0.0394	3.586 mg/L	0.0394	1.10%
Fe	238.204†	1459852.1	614.6 mg/L	4.55	614.6 mg/L	4.55	0.74%
K	766.490†	153048.5	46.23 mg/L	0.067	46.23 mg/L	0.067	0.14%
Mg	285.213†	2933918.1	341.7 mg/L	5.81	341.7 mg/L	5.81	1.70%
Mn	257.610†	135690.6	5.478 mg/L	0.0296	5.478 mg/L	0.0296	0.54%
Mo	202.031†	11096.0	0.4407 mg/L	0.00379	0.4407 mg/L	0.00379	0.86%
Na	589.592†	102119.7	8.398 mg/L	0.0122	8.398 mg/L	0.0122	0.15%
Ni	231.604†	30529.3	0.7661 mg/L	0.00561	0.7661 mg/L	0.00561	0.73%
Pb	220.353†	157201.0	12.62 mg/L	0.065	12.62 mg/L	0.065	0.51%
Sb	206.836†	697.7	0.1279 mg/L	0.00090	0.1279 mg/L	0.00090	0.70%
Se	196.026†	1031.1	0.4014 mg/L	0.00682	0.4014 mg/L	0.00682	1.70%
Sn	189.927†	4324.3	0.5024 mg/L	0.00453	0.5024 mg/L	0.00453	0.90%
Ti	337.279†	285180.8	15.05 mg/L	0.037	15.05 mg/L	0.037	0.24%
Tl	351.924†	-428.6	0.3067 mg/L	0.00393	0.3067 mg/L	0.00393	1.28%
V	290.880†	270427.2	1.178 mg/L	0.0082	1.178 mg/L	0.0082	0.69%
Zn	206.200†	209844.1	2.871 mg/L	0.0123	2.871 mg/L	0.0123	0.43%
Zr	343.823†	65509.4	0.1309 mg/L	0.00225	0.1309 mg/L	0.00225	1.72%

Sequence No.: 90

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 5

Date Collected: 4/17/2024 7:42:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y axial	5196820.2	94.58	%	0.936			0.99%
Y radial	190385.9	99.09	%	1.073			1.08%
Ag 328.068†	688736.4	2.299	mg/L	0.0387	2.299	mg/L	1.68%
QC value	within limits for Ag 328.068 Recovery = 91.95%						
Al 396.153†	37823.7	9.529	mg/L	0.0305	9.529	mg/L	0.32%
QC value	within limits for Al 396.153 Recovery = 95.29%						
As 188.979†	15903.7	4.754	mg/L	0.0175	4.754	mg/L	0.37%
QC value	within limits for As 188.979 Recovery = 95.08%						
B 208.889†	86092.0	4.351	mg/L	0.0030	4.351	mg/L	0.07%
QC value	less than the lower limit for B 208.889 Recovery = 87.01%						
Ba 233.527†	823357.2	4.870	mg/L	0.0115	4.870	mg/L	0.24%
QC value	within limits for Ba 233.527 Recovery = 97.40%						
Be 313.107†	2072651.9	4.672	mg/L	0.0507	4.672	mg/L	1.08%
QC value	within limits for Be 313.107 Recovery = 93.44%						
Ca 317.933†	65660.0	9.445	mg/L	0.0347	9.445	mg/L	0.37%
QC value	within limits for Ca 317.933 Recovery = 94.45%						
Cd 228.802†	560230.4	4.833	mg/L	0.0154	4.833	mg/L	0.32%
QC value	within limits for Cd 228.802 Recovery = 96.65%						
Co 228.616†	489933.7	4.848	mg/L	0.0083	4.848	mg/L	0.17%
QC value	within limits for Co 228.616 Recovery = 96.96%						
Cr 267.716†	635036.5	4.860	mg/L	0.0075	4.860	mg/L	0.15%
QC value	within limits for Cr 267.716 Recovery = 97.19%						
Cu 327.393†	837701.3	4.727	mg/L	0.0074	4.727	mg/L	0.16%
QC value	within limits for Cu 327.393 Recovery = 94.54%						
Fe 238.204†	11366.9	4.811	mg/L	0.0365	4.811	mg/L	0.76%
QC value	within limits for Fe 238.204 Recovery = 96.22%						
K 766.490†	30871.7	9.325	mg/L	0.0752	9.325	mg/L	0.81%
QC value	within limits for K 766.490 Recovery = 93.25%						
Mg 285.213†	81398.1	9.448	mg/L	0.0270	9.448	mg/L	0.29%
QC value	within limits for Mg 285.213 Recovery = 94.48%						

Mn 257.610†	119860.8	4.797 mg/L	0.0190	4.797 mg/L	0.0190	0.40%
QC value within limits for Mn 257.610 Recovery = 95.94%						
Mo 202.031†	121397.7	4.822 mg/L	0.0083	4.822 mg/L	0.0083	0.17%
QC value within limits for Mo 202.031 Recovery = 96.43%						
Na 589.592†	106232.4	8.737 mg/L	0.0964	8.737 mg/L	0.0964	1.10%
QC value less than the lower limit for Na 589.592 Recovery = 87.37%						
Ni 231.604†	193561.4	4.856 mg/L	0.0103	4.856 mg/L	0.0103	0.21%
QC value within limits for Ni 231.604 Recovery = 97.13%						
Pb 220.353†	60935.4	4.899 mg/L	0.0309	4.899 mg/L	0.0309	0.63%
QC value within limits for Pb 220.353 Recovery = 97.99%						
Sb 206.836†	30399.8	4.746 mg/L	0.0153	4.746 mg/L	0.0153	0.32%
QC value within limits for Sb 206.836 Recovery = 94.91%						
Se 196.026†	9539.2	4.742 mg/L	0.0116	4.742 mg/L	0.0116	0.24%
QC value within limits for Se 196.026 Recovery = 94.84%						
Sn 189.927†	41922.0	4.867 mg/L	0.0266	4.867 mg/L	0.0266	0.55%
QC value within limits for Sn 189.927 Recovery = 97.33%						
Ti 337.279†	88864.8	4.687 mg/L	0.0131	4.687 mg/L	0.0131	0.28%
QC value within limits for Ti 337.279 Recovery = 93.74%						
Tl 351.924†	28723.2	2.379 mg/L	0.0163	2.379 mg/L	0.0163	0.68%
QC value within limits for Tl 351.924 Recovery = 95.17%						
V 290.880†	1071234.8	4.820 mg/L	0.0033	4.820 mg/L	0.0033	0.07%
QC value within limits for V 290.880 Recovery = 96.41%						
Zn 206.200†	353754.5	4.931 mg/L	0.0070	4.931 mg/L	0.0070	0.14%
QC value within limits for Zn 206.200 Recovery = 98.61%						
Zr 343.823†	2160820.1	4.799 mg/L	0.0074	4.799 mg/L	0.0074	0.15%
QC Failed. Continue with analysis.						

Sequence No.: 91

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 7:47:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5246271.6	95.48 %	0.954			1.00%
Y radial	192622.8	100.3 %	0.83			0.83%
Ag 328.068†	763.1	0.0026 mg/L	0.00027	0.0026 mg/L	0.00027	10.51%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	7.7	0.0019 mg/L	0.00503	0.0019 mg/L	0.00503	258.67%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-14.8	-0.0044 mg/L	0.00209	-0.0044 mg/L	0.00209	47.79%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2190.7	-0.1169 mg/L	0.00042	-0.1169 mg/L	0.00042	0.36%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	7.2	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	41.75%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-9.9	-0.0000 mg/L	0.00001	-0.0000 mg/L	0.00001	38.23%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	26.6	0.0038 mg/L	0.00101	0.0038 mg/L	0.00101	26.48%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-0.2	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	113.39%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-4.5	-0.0000 mg/L	0.00009	-0.0000 mg/L	0.00009	203.23%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.0	-0.0000 mg/L	0.00012	-0.0000 mg/L	0.00012	546.68%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-1268.0	-0.0071 mg/L	0.00021	-0.0071 mg/L	0.00021	2.90%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	2.7	0.0011 mg/L	0.00034	0.0011 mg/L	0.00034	29.31%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	184.3	0.0557 mg/L	0.01781	0.0557 mg/L	0.01781	32.00%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	10.1	0.0012 mg/L	0.00019	0.0012 mg/L	0.00019	16.13%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	6.3	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	49.42%

QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 28.5 0.0011 mg/L 0.00016 0.0011 mg/L 0.00016 13.80%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 444.6 0.0366 mg/L 0.00122 0.0366 mg/L 0.00122 3.35%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† -1.3 -0.0000 mg/L 0.00029 -0.0000 mg/L 0.00029 866.41%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 15.6 0.0013 mg/L 0.00087 0.0013 mg/L 0.00087 68.21%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 5.6 0.0009 mg/L 0.00050 0.0009 mg/L 0.00050 55.59%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 2.7 0.0013 mg/L 0.00140 0.0013 mg/L 0.00140 103.83%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 7.0 0.0008 mg/L 0.00019 0.0008 mg/L 0.00019 24.02%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 18.0 0.0010 mg/L 0.00010 0.0010 mg/L 0.00010 10.87%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 27.2 0.0023 mg/L 0.00493 0.0023 mg/L 0.00493 215.85%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 400.0 0.0018 mg/L 0.00046 0.0018 mg/L 0.00046 25.67%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -80.4 -0.0011 mg/L 0.00003 -0.0011 mg/L 0.00003 2.40%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -34.8 -0.0001 mg/L 0.00004 -0.0001 mg/L 0.00004 53.61%
 All analyte(s) passed QC.

Sequence No.: 92

Sample ID: B371474-PS1

Analyst:

B371474-DUP1

Initial Sample Wt:

TYPO- JLC 04/18/24

Dilution:

Wash Time: 110

Autosampler Location: 98

Date Collected: 4/17/2024 7:53:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371474-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4723178.7	85.96 %		0.507				0.59%
Y radial	177144.3	92.20 %		0.696				0.75%
Ag 328.068†	-12612.7	-0.0276 mg/L		0.00080	-0.0276 mg/L		0.00080	2.89%
Al 396.153†	659240.6	170.6 mg/L		0.38	170.6 mg/L		0.38	0.22%
As 188.979†	1187.7	0.6971 mg/L		0.00160	0.6971 mg/L		0.00160	0.23%
B 208.889†	1052.1	0.0543 mg/L		0.00158	0.0543 mg/L		0.00158	2.91%
Ba 233.527†	459232.0	2.628 mg/L		0.0077	2.628 mg/L		0.0077	0.29%
Be 313.107†	6923.9	0.0121 mg/L		0.00006	0.0121 mg/L		0.00006	0.51%
Ca 317.933†	2829358.2	407.0 mg/L		0.51	407.0 mg/L		0.51	0.13%
Cd 228.802†	1273.1	0.0090 mg/L		0.00019	0.0090 mg/L		0.00019	2.09%
Co 228.616†	16373.2	0.1312 mg/L		0.00116	0.1312 mg/L		0.00116	0.89%
Cr 267.716†	57542.6	0.4387 mg/L		0.00097	0.4387 mg/L		0.00097	0.22%
Cu 327.393†	459947.1	2.586 mg/L		0.0129	2.586 mg/L		0.0129	0.50%
Fe 238.204†	1526044.8	642.4 mg/L		1.76	642.4 mg/L		1.76	0.27%
K 766.490†	129102.3	39.00 mg/L		0.062	39.00 mg/L		0.062	0.16%
Mg 285.213†	2080940.5	242.6 mg/L		0.59	242.6 mg/L		0.59	0.24%
Mn 257.610†	106909.9	4.328 mg/L		0.0100	4.328 mg/L		0.0100	0.23%
Mo 202.031†	938.2	0.0373 mg/L		0.00069	0.0373 mg/L		0.00069	1.84%
Na 589.592†	60279.3	4.957 mg/L		0.0186	4.957 mg/L		0.0186	0.37%
Ni 231.604†	12672.0	0.3182 mg/L		0.00162	0.3182 mg/L		0.00162	0.51%
Pb 220.353†	174994.6	14.05 mg/L		0.048	14.05 mg/L		0.048	0.34%
Sb 206.836†	13.2	0.0260 mg/L		0.00279	0.0260 mg/L		0.00279	10.74%
Se 196.026†	173.3	0.0162 mg/L		0.00328	0.0162 mg/L		0.00328	20.24%
Sn 189.927†	724.1	0.0840 mg/L		0.00013	0.0840 mg/L		0.00013	0.15%
Ti 337.279†	272893.4	14.40 mg/L		0.021	14.40 mg/L		0.021	0.15%
Tl 351.924†	-4414.4	-0.0066 mg/L		0.00464	-0.0066 mg/L		0.00464	70.08%
V 290.880†	167489.2	0.7130 mg/L		0.00283	0.7130 mg/L		0.00283	0.40%
Zn 206.200†	134534.6	1.824 mg/L		0.0020	1.824 mg/L		0.0020	0.11%
Zr 343.823†	62784.3	0.1241 mg/L		0.00114	0.1241 mg/L		0.00114	0.92%

Sequence No.: 93

Autosampler Location: 99

Sample ID: B371474-SRL1

Date Collected: 4/17/2024 8:00:05 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

B371474-PS1

Sample Prep Vol:

Wash Time: 230

TYPO- JLC 04/18/24

Auto Dilution Factor: 1

Mean Data: B371474-SRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4749223.2	86.43	%	0.708				0.82%
Y radial	179091.6	93.21	%	0.581				0.62%
Ag 328.068†	556974.5	1.899	mg/L	0.0059	1.899	mg/L	0.0059	0.31%
Al 396.153†	717510.1	185.6	mg/L	0.58	185.6	mg/L	0.58	0.31%
As 188.979†	6769.8	2.392	mg/L	0.0304	2.392	mg/L	0.0304	1.27%
B 208.889†	60974.4	3.164	mg/L	0.0425	3.164	mg/L	0.0425	1.34%
Ba 233.527†	702739.2	4.061	mg/L	0.0057	4.061	mg/L	0.0057	0.14%
Be 313.107†	792521.2	1.783	mg/L	0.0042	1.783	mg/L	0.0042	0.23%
Ca 317.933†	2393912.2	344.3	mg/L	2.10	344.3	mg/L	2.10	0.61%
Cd 228.802†	210471.6	1.816	mg/L	0.0030	1.816	mg/L	0.0030	0.16%
Co 228.616†	185695.1	1.804	mg/L	0.0045	1.804	mg/L	0.0045	0.25%
Cr 267.716†	296385.7	2.266	mg/L	0.0043	2.266	mg/L	0.0043	0.19%
Cu 327.393†	1207980.3	6.792	mg/L	0.0526	6.792	mg/L	0.0526	0.77%
Fe 238.204†	1666458.5	701.6	mg/L	3.40	701.6	mg/L	3.40	0.49%
K 766.490†	191628.4	57.88	mg/L	0.164	57.88	mg/L	0.164	0.28%
Mg 285.213†	1866174.3	217.6	mg/L	0.70	217.6	mg/L	0.70	0.32%
Mn 257.610†	167381.3	6.753	mg/L	0.0249	6.753	mg/L	0.0249	0.37%
Mo 202.031†	44437.8	1.765	mg/L	0.0122	1.765	mg/L	0.0122	0.69%
Na 589.592†	228658.2	18.80	mg/L	0.059	18.80	mg/L	0.059	0.31%
Ni 231.604†	83272.6	2.089	mg/L	0.0147	2.089	mg/L	0.0147	0.70%
Pb 220.353†	183780.5	14.75	mg/L	0.036	14.75	mg/L	0.036	0.25%
Sb 206.836†	11323.3	1.792	mg/L	0.0184	1.792	mg/L	0.0184	1.03%
Se 196.026†	3576.4	1.722	mg/L	0.0216	1.722	mg/L	0.0216	1.25%
Sn 189.927†	14935.0	1.735	mg/L	0.0201	1.735	mg/L	0.0201	1.16%
Ti 337.279†	327329.8	17.27	mg/L	0.042	17.27	mg/L	0.042	0.24%
Tl 351.924†	16116.3	1.743	mg/L	0.0258	1.743	mg/L	0.0258	1.48%
V 290.880†	565978.0	2.502	mg/L	0.0023	2.502	mg/L	0.0023	0.09%
Zn 206.200†	366315.5	5.036	mg/L	0.0208	5.036	mg/L	0.0208	0.41%
Zr 343.823†	58580.6	0.1134	mg/L	0.00116	0.1134	mg/L	0.00116	1.02%

Sequence No.: 94

Autosampler Location: 100

Sample ID: B371474-DUP1

Date Collected: 4/17/2024 8:05:48 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

B371474-SRL1

Sample Prep Vol:

Wash Time: 230

TYPO- JLC 04/18/24

Auto Dilution Factor: 1

Mean Data: B371474-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5080314.1	92.46	%	0.091				0.10%
Y radial	186559.7	97.10	%	1.864				1.92%
Ag 328.068†	-2963.1	-0.0060	mg/L	0.00017	-0.0060	mg/L	0.00017	2.79%
Al 396.153†	150199.2	38.87	mg/L	0.175	38.87	mg/L	0.175	0.45%
As 188.979†	168.2	0.1378	mg/L	0.00130	0.1378	mg/L	0.00130	0.95%
B 208.889†	-1534.1	-0.0821	mg/L	0.00037	-0.0821	mg/L	0.00037	0.45%
Ba 233.527†	88342.1	0.4985	mg/L	0.00659	0.4985	mg/L	0.00659	1.32%
Be 313.107†	1567.2	0.0028	mg/L	0.00013	0.0028	mg/L	0.00013	4.63%
Ca 317.933†	515533.7	74.16	mg/L	0.538	74.16	mg/L	0.538	0.73%
Cd 228.802†	210.4	0.0024	mg/L	0.00005	0.0024	mg/L	0.00005	2.21%
Co 228.616†	4221.2	0.0345	mg/L	0.00030	0.0345	mg/L	0.00030	0.86%
Cr 267.716†	14603.9	0.1113	mg/L	0.00096	0.1113	mg/L	0.00096	0.86%
Cu 327.393†	99574.0	0.5599	mg/L	0.00666	0.5599	mg/L	0.00666	1.19%
Fe 238.204†	419193.6	176.5	mg/L	1.27	176.5	mg/L	1.27	0.72%
K 766.490†	29484.9	8.906	mg/L	0.0427	8.906	mg/L	0.0427	0.48%
Mg 285.213†	395946.9	46.20	mg/L	0.270	46.20	mg/L	0.270	0.59%
Mn 257.610†	27332.1	1.108	mg/L	0.0186	1.108	mg/L	0.0186	1.68%
Mo 202.031†	130.4	0.0052	mg/L	0.00037	0.0052	mg/L	0.00037	7.19%

Na 589.592†	12557.9	1.033 mg/L	0.0030	1.033 mg/L	0.0030	0.29%
Ni 231.604†	4329.8	0.1087 mg/L	0.00037	0.1087 mg/L	0.00037	0.34%
Pb 220.353†	38003.9	3.051 mg/L	0.0359	3.051 mg/L	0.0359	1.18%
Sb 206.836†	14.5	0.0087 mg/L	0.00040	0.0087 mg/L	0.00040	4.56%
Se 196.026†	45.9	0.0116 mg/L	0.00084	0.0116 mg/L	0.00084	7.26%
Sn 189.927†	-84.3	-0.0098 mg/L	0.00019	-0.0098 mg/L	0.00019	1.98%
Ti 337.279†	64078.2	3.382 mg/L	0.0145	3.382 mg/L	0.0145	0.43%
Tl 351.924†	-1253.6	-0.0031 mg/L	0.00381	-0.0031 mg/L	0.00381	123.47%
V 290.880†	34773.7	0.1451 mg/L	0.00218	0.1451 mg/L	0.00218	1.50%
Zn 206.200†	29471.3	0.3972 mg/L	0.00476	0.3972 mg/L	0.00476	1.20%
Zr 343.823†	12028.5	0.0225 mg/L	0.00056	0.0225 mg/L	0.00056	2.47%

Sequence No.: 95

Sample ID: 24D1364-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 101

Date Collected: 4/17/2024 8:11:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4827834.9	87.87	%	0.376			0.43%
Y radial	176627.2	91.93	%	1.758			1.91%
Ag 328.068†	-16361.5	-0.0391	mg/L	0.00036	-0.0391 mg/L	0.00036	0.93%
Al 396.153†	732141.5	189.4	mg/L	4.17	189.4 mg/L	4.17	2.20%
As 188.979†	1009.8	0.6759	mg/L	0.00611	0.6759 mg/L	0.00611	0.90%
B 208.889†	580.0	0.0297	mg/L	0.00178	0.0297 mg/L	0.00178	5.97%
Ba 233.527†	415742.8	2.363	mg/L	0.0051	2.363 mg/L	0.0051	0.22%
Be 313.107†	7495.7	0.0133	mg/L	0.00027	0.0133 mg/L	0.00027	2.00%
Ca 317.933†	2373318.3	341.4	mg/L	7.50	341.4 mg/L	7.50	2.20%
Cd 228.802†	1036.7	0.0087	mg/L	0.00019	0.0087 mg/L	0.00019	2.17%
Co 228.616†	18792.2	0.1516	mg/L	0.00165	0.1516 mg/L	0.00165	1.09%
Cr 267.716†	68642.4	0.5232	mg/L	0.00140	0.5232 mg/L	0.00140	0.27%
Cu 327.393†	525803.3	2.957	mg/L	0.0035	2.957 mg/L	0.0035	0.12%
Fe 238.204†	1668606.1	702.5	mg/L	15.31	702.5 mg/L	15.31	2.18%
K 766.490†	147495.3	44.55	mg/L	1.030	44.55 mg/L	1.030	2.31%
Mg 285.213†	1793830.6	209.2	mg/L	4.68	209.2 mg/L	4.68	2.24%
Mn 257.610†	125693.9	5.085	mg/L	0.0624	5.085 mg/L	0.0624	1.23%
Mo 202.031†	599.0	0.0238	mg/L	0.00039	0.0238 mg/L	0.00039	1.64%
Na 589.592†	63341.4	5.209	mg/L	0.0364	5.209 mg/L	0.0364	0.70%
Ni 231.604†	18868.6	0.4739	mg/L	0.00210	0.4739 mg/L	0.00210	0.44%
Pb 220.353†	166547.6	13.37	mg/L	0.007	13.37 mg/L	0.007	0.06%
Sb 206.836†	38.7	0.0313	mg/L	0.00653	0.0313 mg/L	0.00653	20.85%
Se 196.026†	134.1	0.0119	mg/L	0.00381	0.0119 mg/L	0.00381	32.09%
Sn 189.927†	858.8	0.0997	mg/L	0.00244	0.0997 mg/L	0.00244	2.44%
Ti 337.279†	302746.1	15.98	mg/L	0.381	15.98 mg/L	0.381	2.38%
Tl 351.924†	-6511.8	-0.1496	mg/L	0.00867	-0.1496 mg/L	0.00867	5.79%
V 290.880†	169285.4	0.7173	mg/L	0.00266	0.7173 mg/L	0.00266	0.37%
Zn 206.200†	132145.3	1.787	mg/L	0.0020	1.787 mg/L	0.0020	0.11%
Zr 343.823†	59208.8	0.1148	mg/L	0.00039	0.1148 mg/L	0.00039	0.34%

Sequence No.: 96

Sample ID: 24D1364-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 102

Date Collected: 4/17/2024 8:18:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4961912.1	90.31	%	0.863			0.96%
Y radial	181558.0	94.49	%	0.841			0.89%
Ag 328.068†	-10214.2	-0.0222	mg/L	0.00067	-0.0222 mg/L	0.00067	3.02%
Al 396.153†	1054063.7	272.7	mg/L	5.09	272.7 mg/L	5.09	1.87%

As 188.979†	346.1	0.4621 mg/L	0.00817	0.4621 mg/L	0.00817	1.77%
B 208.889†	546.1	0.0280 mg/L	0.00202	0.0280 mg/L	0.00202	7.22%
Ba 233.527†	607916.4	3.521 mg/L	0.0203	3.521 mg/L	0.0203	0.58%
Be 313.107†	12692.4	0.0246 mg/L	0.00008	0.0246 mg/L	0.00008	0.34%
Ca 317.933†	1255971.6	180.7 mg/L	3.24	180.7 mg/L	3.24	1.79%
Cd 228.802†	898.5	0.0090 mg/L	0.00015	0.0090 mg/L	0.00015	1.66%
Co 228.616†	25687.5	0.2105 mg/L	0.00270	0.2105 mg/L	0.00270	1.28%
Cr 267.716†	94381.9	0.7187 mg/L	0.00553	0.7187 mg/L	0.00553	0.77%
Cu 327.393†	461799.6	2.597 mg/L	0.0089	2.597 mg/L	0.0089	0.34%
Fe 238.204†	1244372.4	523.9 mg/L	8.68	523.9 mg/L	8.68	1.66%
K 766.490†	194757.3	58.83 mg/L	1.131	58.83 mg/L	1.131	1.92%
Mg 285.213†	1263897.3	147.4 mg/L	2.78	147.4 mg/L	2.78	1.88%
Mn 257.610†	207915.2	8.361 mg/L	0.0302	8.361 mg/L	0.0302	0.36%
Mo 202.031†	544.0	0.0216 mg/L	0.00031	0.0216 mg/L	0.00031	1.42%
Na 589.592†	49192.5	4.046 mg/L	0.0113	4.046 mg/L	0.0113	0.28%
Ni 231.604†	22911.4	0.5751 mg/L	0.00579	0.5751 mg/L	0.00579	1.01%
Pb 220.353†	48648.2	3.916 mg/L	0.0295	3.916 mg/L	0.0295	0.75%
Sb 206.836†	12.4	0.0154 mg/L	0.00117	0.0154 mg/L	0.00117	7.59%
Se 196.026†	79.2	0.0066 mg/L	0.00385	0.0066 mg/L	0.00385	58.67%
Sn 189.927†	1163.0	0.1351 mg/L	0.00282	0.1351 mg/L	0.00282	2.09%
Ti 337.279†	384738.0	20.30 mg/L	0.413	20.30 mg/L	0.413	2.03%
Tl 351.924†	-3614.9	-0.0368 mg/L	0.00536	-0.0368 mg/L	0.00536	14.54%
V 290.880†	191016.2	0.8299 mg/L	0.00573	0.8299 mg/L	0.00573	0.69%
Zn 206.200†	279819.7	3.849 mg/L	0.0322	3.849 mg/L	0.0322	0.84%
Zr 343.823†	39585.4	0.0754 mg/L	0.00081	0.0754 mg/L	0.00081	1.07%

Sequence No.: 97

Sample ID: 24D1364-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 103

Date Collected: 4/17/2024 8:24:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4887070.8	88.94 %		0.148			0.17%
Y radial	181323.2	94.37 %		1.059			1.12%
Ag 328.068†	-23342.5	-0.0552 mg/L		0.00105	-0.0552 mg/L	0.00105	1.90%
Al 396.153†	1849227.8	478.5 mg/L		9.92	478.5 mg/L	9.92	2.07%
As 188.979†	-454.5	0.4332 mg/L		0.00886	0.4332 mg/L	0.00886	2.05%
B 208.889†	21047.9	1.108 mg/L		0.0140	1.108 mg/L	0.0140	1.27%
Ba 233.527†	1095523.1	6.315 mg/L		0.0125	6.315 mg/L	0.0125	0.20%
Be 313.107†	33468.7	0.0694 mg/L		0.00045	0.0694 mg/L	0.00045	0.65%
Ca 317.933†	2082354.4	299.5 mg/L		5.12	299.5 mg/L	5.12	1.71%
Cd 228.802†	1224.1	0.0301 mg/L		0.00024	0.0301 mg/L	0.00024	0.81%
Co 228.616†	84605.4	0.7865 mg/L		0.00151	0.7865 mg/L	0.00151	0.19%
Cr 267.716†	221797.3	1.692 mg/L		0.0027	1.692 mg/L	0.0027	0.16%
Cu 327.393†	2882931.8	16.21 mg/L		0.012	16.21 mg/L	0.012	0.08%
Fe 238.204†	2786957.3	1173 mg/L		17.80	1173 mg/L	17.80	1.52%
K 766.490†	162628.3	49.12 mg/L		0.265	49.12 mg/L	0.265	0.54%
Mg 285.213†	982475.1	115.2 mg/L		2.17	115.2 mg/L	2.17	1.88%
Mn 257.610†	279880.6	11.29 mg/L		0.046	11.29 mg/L	0.046	0.41%
Mo 202.031†	7310.1	0.2903 mg/L		0.00300	0.2903 mg/L	0.00300	1.03%
Na 589.592†	203175.4	16.71 mg/L		0.092	16.71 mg/L	0.092	0.55%
Ni 231.604†	205872.9	5.167 mg/L		0.0103	5.167 mg/L	0.0103	0.20%
Pb 220.353†	115351.2	9.259 mg/L		0.0101	9.259 mg/L	0.0101	0.11%
Sb 206.836†	67.1	0.0445 mg/L		0.01076	0.0445 mg/L	0.01076	24.15%
Se 196.026†	100.0	0.0324 mg/L		0.01262	0.0324 mg/L	0.01262	38.96%
Sn 189.927†	11547.4	1.341 mg/L		0.0039	1.341 mg/L	0.0039	0.29%
Ti 337.279†	424388.3	22.40 mg/L		0.067	22.40 mg/L	0.067	0.30%
Tl 351.924†	-10583.7	-0.2114 mg/L		0.00844	-0.2114 mg/L	0.00844	3.99%
V 290.880†	297784.9	1.264 mg/L		0.0031	1.264 mg/L	0.0031	0.25%
Zn 206.200†	1564841.5	21.63 mg/L		0.044	21.63 mg/L	0.044	0.21%
Zr 343.823†	259705.3	0.5489 mg/L		0.00168	0.5489 mg/L	0.00168	0.31%

Sequence No.: 98

Autosampler Location: 104

Sample ID: 24D1364-06

Date Collected: 4/17/2024 8:30:20 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 230

Auto Dilution Factor: 1

Mean Data: 24D1364-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5083895.3	92.53	%	0.345				0.37%
Y radial	184160.2	95.85	%	1.331				1.39%
Ag 328.068†	-10414.7	-0.0217	mg/L	0.00067	-0.0217	mg/L	0.00067	3.10%
Al 396.153†	1318475.3	341.1	mg/L	1.41	341.1	mg/L	1.41	0.41%
As 188.979†	-749.8	0.1610	mg/L	0.00518	0.1610	mg/L	0.00518	3.22%
B 208.889†	-593.8	-0.0315	mg/L	0.00163	-0.0315	mg/L	0.00163	5.16%
Ba 233.527†	363126.0	2.075	mg/L	0.0071	2.075	mg/L	0.0071	0.34%
Be 313.107†	7287.6	0.0123	mg/L	0.00023	0.0123	mg/L	0.00023	1.85%
Ca 317.933†	419626.7	60.36	mg/L	0.207	60.36	mg/L	0.207	0.34%
Cd 228.802†	-295.3	0.0053	mg/L	0.00007	0.0053	mg/L	0.00007	1.28%
Co 228.616†	25610.3	0.2042	mg/L	0.00209	0.2042	mg/L	0.00209	1.02%
Cr 267.716†	68698.7	0.5234	mg/L	0.00200	0.5234	mg/L	0.00200	0.38%
Cu 327.393†	189267.0	1.064	mg/L	0.0050	1.064	mg/L	0.0050	0.47%
Fe 238.204†	1268639.5	534.1	mg/L	1.86	534.1	mg/L	1.86	0.35%
K 766.490†	203337.9	61.42	mg/L	0.234	61.42	mg/L	0.234	0.38%
Mg 285.213†	860999.8	100.6	mg/L	0.33	100.6	mg/L	0.33	0.33%
Mn 257.610†	144729.8	5.833	mg/L	0.0780	5.833	mg/L	0.0780	1.34%
Mo 202.031†	-83.6	-0.0033	mg/L	0.00041	-0.0033	mg/L	0.00041	12.28%
Na 589.592†	49135.2	4.041	mg/L	0.0622	4.041	mg/L	0.0622	1.54%
Ni 231.604†	16590.1	0.4165	mg/L	0.00273	0.4165	mg/L	0.00273	0.65%
Pb 220.353†	97215.8	7.828	mg/L	0.0314	7.828	mg/L	0.0314	0.40%
Sb 206.836†	-42.7	0.0109	mg/L	0.00359	0.0109	mg/L	0.00359	32.85%
Se 196.026†	50.0	0.0147	mg/L	0.00608	0.0147	mg/L	0.00608	41.26%
Sn 189.927†	1197.0	0.1390	mg/L	0.00177	0.1390	mg/L	0.00177	1.27%
Ti 337.279†	432862.1	22.84	mg/L	0.109	22.84	mg/L	0.109	0.48%
Tl 351.924†	-3345.3	-0.0162	mg/L	0.00621	-0.0162	mg/L	0.00621	38.46%
V 290.856†	194356.7	0.8452	mg/L	0.00220	0.8452	mg/L	0.00220	0.26%
Zn 206.200†	112390.8	1.525	mg/L	0.0063	1.525	mg/L	0.0063	0.41%
Zr 343.823†	27652.0	0.0487	mg/L	0.00007	0.0487	mg/L	0.00007	0.14%

Sequence No.: 99

Autosampler Location: 105

Sample ID: 24D1364-07

Date Collected: 4/17/2024 8:36:58 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 230

Auto Dilution Factor: 1

Mean Data: 24D1364-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5013064.1	91.24	%	0.067				0.07%
Y radial	182901.7	95.19	%	0.316				0.33%
Ag 328.068†	-10360.3	-0.0213	mg/L	0.00026	-0.0213	mg/L	0.00026	1.23%
Al 396.153†	909593.4	235.3	mg/L	2.42	235.3	mg/L	2.42	1.03%
As 188.979†	-137.5	0.2790	mg/L	0.00371	0.2790	mg/L	0.00371	1.33%
B 208.889†	-232.3	-0.0127	mg/L	0.00069	-0.0127	mg/L	0.00069	5.42%
Ba 233.527†	267556.2	1.507	mg/L	0.0019	1.507	mg/L	0.0019	0.13%
Be 313.107†	5562.7	0.0086	mg/L	0.00014	0.0086	mg/L	0.00014	1.65%
Ca 317.933†	564953.8	81.26	mg/L	0.754	81.26	mg/L	0.754	0.93%
Cd 228.802†	469.2	0.0097	mg/L	0.00015	0.0097	mg/L	0.00015	1.57%
Co 228.616†	22801.4	0.1923	mg/L	0.00066	0.1923	mg/L	0.00066	0.34%
Cr 267.716†	45456.1	0.3457	mg/L	0.00016	0.3457	mg/L	0.00016	0.05%
Cu 327.393†	254000.7	1.428	mg/L	0.0056	1.428	mg/L	0.0056	0.39%
Fe 238.204†	1323072.1	557.0	mg/L	4.63	557.0	mg/L	4.63	0.83%
K 766.490†	100397.9	30.33	mg/L	0.335	30.33	mg/L	0.335	1.10%
Mg 285.213†	786313.1	91.93	mg/L	0.912	91.93	mg/L	0.912	0.99%
Mn 257.610†	140301.5	5.658	mg/L	0.0623	5.658	mg/L	0.0623	1.10%
Mo 202.031†	133.8	0.0053	mg/L	0.00065	0.0053	mg/L	0.00065	12.31%

Na 589.592†	70940.9	5.834 mg/L	0.0594	5.834 mg/L	0.0594	1.02%
Ni 231.604†	12978.5	0.3259 mg/L	0.00083	0.3259 mg/L	0.00083	0.26%
Pb 220.353†	29690.6	2.391 mg/L	0.0072	2.391 mg/L	0.0072	0.30%
Sb 206.836†	-25.4	0.0178 mg/L	0.00075	0.0178 mg/L	0.00075	4.23%
Se 196.026†	50.5	0.0154 mg/L	0.00460	0.0154 mg/L	0.00460	29.90%
Sn 189.927†	728.6	0.0846 mg/L	0.00110	0.0846 mg/L	0.00110	1.30%
Ti 337.279†	292710.7	15.45 mg/L	0.173	15.45 mg/L	0.173	1.12%
Tl 351.924†	-3586.0	0.0038 mg/L	0.00364	0.0038 mg/L	0.00364	96.92%
V 290.880†	186999.5	0.8074 mg/L	0.00126	0.8074 mg/L	0.00126	0.16%
Zn 206.200†	122573.8	1.663 mg/L	0.0050	1.663 mg/L	0.0050	0.30%
Zr 343.823†	36217.3	0.0672 mg/L	0.00035	0.0672 mg/L	0.00035	0.52%

Sequence No.: 100

Sample ID: 24D1364-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 106

Date Collected: 4/17/2024 8:43:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4930299.8	89.73	%	1.035			1.15%
Y radial	181434.1	94.43	%	1.609			1.70%
Ag 328.068†	-14732.5	-0.0318	mg/L	0.00040	-0.0318 mg/L	0.00040	1.27%
Al 396.153†	896204.1	231.9	mg/L	6.65	231.9 mg/L	6.65	2.87%
As 188.979†	-81.0	0.3556	mg/L	0.01008	0.3556 mg/L	0.01008	2.83%
B 208.889†	6535.2	0.3473	mg/L	0.00582	0.3473 mg/L	0.00582	1.68%
Ba 233.527†	358164.8	2.018	mg/L	0.0320	2.018 mg/L	0.0320	1.58%
Be 313.107†	6756.7	0.0101	mg/L	0.00012	0.0101 mg/L	0.00012	1.17%
Ca 317.933†	1340165.2	192.8	mg/L	5.31	192.8 mg/L	5.31	2.75%
Cd 228.802†	1785.1	0.0234	mg/L	0.00030	0.0234 mg/L	0.00030	1.29%
Co 228.616†	27732.3	0.2404	mg/L	0.00468	0.2404 mg/L	0.00468	1.95%
Cr 267.716†	73879.3	0.5622	mg/L	0.00706	0.5622 mg/L	0.00706	1.26%
Cu 327.393†	840961.0	4.729	mg/L	0.0572	4.729 mg/L	0.0572	1.21%
Fe 238.204†	1761864.3	741.7	mg/L	18.49	741.7 mg/L	18.49	2.49%
K 766.490†	91806.5	27.73	mg/L	0.790	27.73 mg/L	0.790	2.85%
Mg 285.213†	1059717.8	123.9	mg/L	3.45	123.9 mg/L	3.45	2.78%
Mn 257.610†	199755.3	8.052	mg/L	0.0369	8.052 mg/L	0.0369	0.46%
Mo 202.031†	688.0	0.0273	mg/L	0.00074	0.0273 mg/L	0.00074	2.73%
Na 589.592†	81861.4	6.732	mg/L	0.1967	6.732 mg/L	0.1967	2.92%
Ni 231.604†	18918.6	0.4751	mg/L	0.00601	0.4751 mg/L	0.00601	1.27%
Pb 220.353†	52584.1	4.219	mg/L	0.0410	4.219 mg/L	0.0410	0.97%
Sb 206.836†	153.6	0.0515	mg/L	0.00360	0.0515 mg/L	0.00360	6.99%
Se 196.026†	39.8	-0.0022	mg/L	0.00565	-0.0022 mg/L	0.00565	258.11%
Sn 189.927†	1226.3	0.1424	mg/L	0.00271	0.1424 mg/L	0.00271	1.91%
Ti 337.279†	299088.9	15.78	mg/L	0.471	15.78 mg/L	0.471	2.98%
Tl 351.924†	-5449.7	-0.0353	mg/L	0.01663	-0.0353 mg/L	0.01663	47.07%
V 290.880†	239435.0	1.030	mg/L	0.0175	1.030 mg/L	0.0175	1.70%
Zn 206.200†	261199.9	3.574	mg/L	0.0515	3.574 mg/L	0.0515	1.44%
Zr 343.823†	43304.5	0.0785	mg/L	0.00143	0.0785 mg/L	0.00143	1.82%

Sequence No.: 101

Sample ID: 24D1392-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 107

Date Collected: 4/17/2024 8:50:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1392-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5293555.1	96.34	%	0.822			0.85%
Y radial	186091.7	96.85	%	2.267			2.34%
Ag 328.068†	-2907.4	-0.0056	mg/L	0.00026	-0.0056 mg/L	0.00026	4.56%
Al 396.153†	406083.7	105.1	mg/L	0.94	105.1 mg/L	0.94	0.89%

As	188.979†	-280.6	0.0368 mg/L	0.00126	0.0368 mg/L	0.00126	3.44%
B	208.889†	-2259.7	-0.1207 mg/L	0.00060	-0.1207 mg/L	0.00060	0.49%
Ba	233.527†	110186.8	0.6291 mg/L	0.00686	0.6291 mg/L	0.00686	1.09%
Be	313.107†	2112.5	0.0035 mg/L	0.00012	0.0035 mg/L	0.00012	3.30%
Ca	317.933†	133188.6	19.16 mg/L	0.228	19.16 mg/L	0.228	1.19%
Cd	228.802†	-38.5	0.0023 mg/L	0.00007	0.0023 mg/L	0.00007	2.89%
Co	228.616†	6580.2	0.0496 mg/L	0.00037	0.0496 mg/L	0.00037	0.75%
Cr	267.716†	17560.6	0.1337 mg/L	0.00127	0.1337 mg/L	0.00127	0.95%
Cu	327.393†	27073.1	0.1523 mg/L	0.00185	0.1523 mg/L	0.00185	1.22%
Fe	238.204†	392505.8	165.2 mg/L	2.00	165.2 mg/L	2.00	1.21%
K	766.490†	82060.2	24.79 mg/L	0.254	24.79 mg/L	0.254	1.02%
Mg	285.213†	266485.0	31.14 mg/L	0.275	31.14 mg/L	0.275	0.88%
Mn	257.610†	40046.2	1.615 mg/L	0.0238	1.615 mg/L	0.0238	1.47%
Mo	202.031†	63.2	0.0025 mg/L	0.00039	0.0025 mg/L	0.00039	15.49%
Na	589.592†	9970.3	0.8200 mg/L	0.01455	0.8200 mg/L	0.01455	1.77%
Ni	231.604†	4155.0	0.1043 mg/L	0.00113	0.1043 mg/L	0.00113	1.08%
Pb	220.353†	5129.8	0.4179 mg/L	0.00314	0.4179 mg/L	0.00314	0.75%
Sb	206.836†	-12.5	0.0038 mg/L	0.00125	0.0038 mg/L	0.00125	32.84%
Se	196.026†	3.4	-0.0014 mg/L	0.00258	-0.0014 mg/L	0.00258	180.89%
Sn	189.927†	0.9	0.0001 mg/L	0.00035	0.0001 mg/L	0.00035	396.74%
Ti	337.279†	136522.4	7.205 mg/L	0.0490	7.205 mg/L	0.0490	0.68%
Tl	351.924†	-971.5	-0.0001 mg/L	0.00358	-0.0001 mg/L	0.00358	>999.9%
V	290.880†	57413.2	0.2493 mg/L	0.00253	0.2493 mg/L	0.00253	1.01%
Zn	206.200†	33772.0	0.4578 mg/L	0.00449	0.4578 mg/L	0.00449	0.98%
Zr	343.823†	5874.3	0.0091 mg/L	0.00019	0.0091 mg/L	0.00019	2.06%

Sequence No.: 102

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 8:54:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

-SEE RERUN- JLC 04/18/24

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5294360.1	96.36 %	0.307			0.32%
Y radial	184321.6	95.93 %	0.707			0.74%
Ag 328.068†	661321.8	2.207 mg/L	0.0225	2.207 mg/L	0.0225	1.02%
QC value	less than the lower limit for Ag 328.068			Recovery = 88.28%		
Al 396.153†	40330.5	10.18 mg/L	0.295	10.18 mg/L	0.295	2.90%
QC value	within limits for Al 396.153			Recovery = 101.82%		
As 188.979†	15468.0	4.625 mg/L	0.0157	4.625 mg/L	0.0157	0.34%
QC value	within limits for As 188.979			Recovery = 92.51%		
B 208.889†	84032.1	4.244 mg/L	0.0114	4.244 mg/L	0.0114	0.27%
QC value	less than the lower limit for B 208.889			Recovery = 84.88%		
Ba 233.527†	810959.1	4.797 mg/L	0.0103	4.797 mg/L	0.0103	0.21%
QC value	within limits for Ba 233.527			Recovery = 95.93%		
Be 313.107†	2075103.6	4.678 mg/L	0.0141	4.678 mg/L	0.0141	0.30%
QC value	within limits for Be 313.107			Recovery = 93.55%		
Ca 317.933†	67996.8	9.781 mg/L	0.2407	9.781 mg/L	0.2407	2.46%
QC value	within limits for Ca 317.933			Recovery = 97.81%		
Cd 228.802†	551746.0	4.761 mg/L	0.0088	4.761 mg/L	0.0088	0.18%
QC value	within limits for Cd 228.802			Recovery = 95.22%		
Co 228.616†	482676.1	4.776 mg/L	0.0094	4.776 mg/L	0.0094	0.20%
QC value	within limits for Co 228.616			Recovery = 95.52%		
Cr 267.716†	624776.3	4.781 mg/L	0.0129	4.781 mg/L	0.0129	0.27%
QC value	within limits for Cr 267.716			Recovery = 95.62%		
Cu 327.393†	814886.4	4.598 mg/L	0.0144	4.598 mg/L	0.0144	0.31%
QC value	within limits for Cu 327.393			Recovery = 91.97%		
Fe 238.204†	12012.5	5.082 mg/L	0.1358	5.082 mg/L	0.1358	2.67%
QC value	within limits for Fe 238.204			Recovery = 101.64%		
K 766.490†	31028.1	9.372 mg/L	0.2479	9.372 mg/L	0.2479	2.65%
QC value	within limits for K 766.490			Recovery = 93.72%		
Mg 285.213†	85011.5	9.869 mg/L	0.2620	9.869 mg/L	0.2620	2.65%
QC value	within limits for Mg 285.213			Recovery = 98.69%		
Mn 257.610†	125404.5	5.019 mg/L	0.1276	5.019 mg/L	0.1276	2.54%
QC value	within limits for Mn 257.610			Recovery = 100.38%		

Mo 202.031†	119614.5	4.751 mg/L	0.0051	4.751 mg/L	0.0051	0.11%
QC value within limits for Mo 202.031			Recovery = 95.01%			
Na 589.592†	96386.5	7.927 mg/L	0.0259	7.927 mg/L	0.0259	0.33%
QC value less than the lower limit for Na 589.592			Recovery = 79.27%			
Ni 231.604†	190506.8	4.780 mg/L	0.0163	4.780 mg/L	0.0163	0.34%
QC value within limits for Ni 231.604			Recovery = 95.60%			
Pb 220.353†	59484.1	4.783 mg/L	0.0105	4.783 mg/L	0.0105	0.22%
QC value within limits for Pb 220.353			Recovery = 95.66%			
Sb 206.836†	29535.3	4.610 mg/L	0.0221	4.610 mg/L	0.0221	0.48%
QC value within limits for Sb 206.836			Recovery = 92.20%			
Se 196.026†	9267.4	4.607 mg/L	0.0127	4.607 mg/L	0.0127	0.28%
QC value within limits for Se 196.026			Recovery = 92.14%			
Sn 189.927†	41212.5	4.784 mg/L	0.0185	4.784 mg/L	0.0185	0.39%
QC value within limits for Sn 189.927			Recovery = 95.69%			
Ti 337.279†	91129.3	4.807 mg/L	0.1349	4.807 mg/L	0.1349	2.81%
QC value within limits for Ti 337.279			Recovery = 96.14%			
Tl 351.924†	27908.3	2.311 mg/L	0.0076	2.311 mg/L	0.0076	0.33%
QC value within limits for Tl 351.924			Recovery = 92.44%			
V 290.880†	1053418.0	4.740 mg/L	0.0073	4.740 mg/L	0.0073	0.15%
QC value within limits for V 290.880			Recovery = 94.81%			
Zn 206.200†	348954.2	4.864 mg/L	0.0118	4.864 mg/L	0.0118	0.24%
QC value within limits for Zn 206.200			Recovery = 97.28%			
Zr 343.823†	2116418.1	4.701 mg/L	0.0113	4.701 mg/L	0.0113	0.24%
QC Failed. Continue with analysis.						

=====SEE RERUN- JLC 04/18/24=====

Sequence No.: 103

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 9:00:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5410015.1	98.46 %	1.004			1.02%
Y radial	185923.1	96.76 %	1.732			1.79%
Ag 328.068†	1037.6	0.0035 mg/L	0.00031	0.0035 mg/L	0.00031	8.91%
QC value within limits for Ag 328.068			Recovery = Not calculated			
Al 396.153†	20.8	0.0053 mg/L	0.00705	0.0053 mg/L	0.00705	132.05%
QC value within limits for Al 396.153			Recovery = Not calculated			
As 188.979†	-16.1	-0.0048 mg/L	0.00071	-0.0048 mg/L	0.00071	15.00%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	-2291.4	-0.1223 mg/L	0.00051	-0.1223 mg/L	0.00051	0.42%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	9.7	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	65.61%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	-22.7	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	52.55%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	60.6	0.0087 mg/L	0.00105	0.0087 mg/L	0.00105	12.08%
QC value within limits for Ca 317.933			Recovery = Not calculated			
Cd 228.802†	-12.0	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	>999.9%
QC value within limits for Cd 228.802			Recovery = Not calculated			
Co 228.616†	-3.2	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	223.65%
QC value within limits for Co 228.616			Recovery = Not calculated			
Cr 267.716†	-31.7	-0.0002 mg/L	0.00022	-0.0002 mg/L	0.00022	89.41%
QC value within limits for Cr 267.716			Recovery = Not calculated			
Cu 327.393†	-1237.3	-0.0070 mg/L	0.00020	-0.0070 mg/L	0.00020	2.80%
QC value within limits for Cu 327.393			Recovery = Not calculated			
Fe 238.204†	12.6	0.0053 mg/L	0.00182	0.0053 mg/L	0.00182	34.24%
QC value within limits for Fe 238.204			Recovery = Not calculated			
K 766.490†	192.8	0.0582 mg/L	0.00869	0.0582 mg/L	0.00869	14.92%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	11.8	0.0014 mg/L	0.00028	0.0014 mg/L	0.00028	20.26%
QC value within limits for Mg 285.213			Recovery = Not calculated			
Mn 257.610†	-2.2	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	123.06%
QC value within limits for Mn 257.610			Recovery = Not calculated			
Mo 202.031†	26.1	0.0010 mg/L	0.00025	0.0010 mg/L	0.00025	24.53%

QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† 263.0 0.0216 mg/L 0.00101 0.0216 mg/L 0.00101 4.68%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -7.4 -0.0002 mg/L 0.00017 -0.0002 mg/L 0.00017 90.44%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 5.0 0.0004 mg/L 0.00007 0.0004 mg/L 0.00007 16.94%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -0.3 -0.0000 mg/L 0.00053 -0.0000 mg/L 0.00053 >999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 1.9 0.0009 mg/L 0.00111 0.0009 mg/L 0.00111 116.99%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 6.6 0.0008 mg/L 0.00046 0.0008 mg/L 0.00046 60.63%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† 18.3 0.0010 mg/L 0.00009 0.0010 mg/L 0.00009 8.94%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 58.5 0.0049 mg/L 0.00113 0.0049 mg/L 0.00113 22.97%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 211.1 0.0009 mg/L 0.00074 0.0009 mg/L 0.00074 77.63%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -74.7 -0.0011 mg/L 0.00016 -0.0011 mg/L 0.00016 14.94%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -140.6 -0.0003 mg/L 0.00010 -0.0003 mg/L 0.00010 33.26%
All analyte(s) passed QC.
User canceled analysis.

SEE RERUN- JLC 04/18/24

=====

Analysis Begun

Start Time: 4/17/2024 9:06:40 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 102

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/17/2024 9:06:41 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 110

Auto Dilution Factor: 1

=====

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5133209.0	93.42 %	0.451			0.48%
Y radial	188451.4	98.08 %	2.364			2.41%
Ag 328.068†	718800.7	2.400 mg/L	0.0057	2.400 mg/L	0.0057	0.24%
QC value within limits for Ag 328.068			96.02%			
Al 396.153†	37556.5	9.460 mg/L	0.1336	9.460 mg/L	0.1336	1.41%
QC value within limits for Al 396.153			94.60%			
As 188.979†	16056.8	4.799 mg/L	0.0129	4.799 mg/L	0.0129	0.27%
QC value within limits for As 188.979			95.98%			
B 208.889†	87625.7	4.432 mg/L	0.0210	4.432 mg/L	0.0210	0.47%
QC value less than the lower limit for B 208.889			Recovery = 88.65%			
Ba 233.527†	829533.1	4.907 mg/L	0.0279	4.907 mg/L	0.0279	0.57%
QC value within limits for Ba 233.527			98.13%			
Be 313.107†	2063404.7	4.651 mg/L	0.1620	4.651 mg/L	0.1620	3.48%
QC value within limits for Be 313.107			93.01%			
Ca 317.933†	65281.9	9.390 mg/L	0.1623	9.390 mg/L	0.1623	1.73%
QC value within limits for Ca 317.933			93.90%			
Cd 228.802†	565078.2	4.874 mg/L	0.0286	4.874 mg/L	0.0286	0.59%
QC value within limits for Cd 228.802			97.49%			
Co 228.616†	494979.8	4.898 mg/L	0.0276	4.898 mg/L	0.0276	0.56%
QC value within limits for Co 228.616			97.96%			
Cr 267.716†	637761.0	4.880 mg/L	0.0244	4.880 mg/L	0.0244	0.50%

QC value within limits for Cr 267.716 Recovery = 97.61%

Cu 327.393† 834074.9 4.707 mg/L 0.0149 4.707 mg/L 0.0149 0.32%

QC value within limits for Cu 327.393 Recovery = 94.13%

Fe 238.204† 11137.7 4.715 mg/L 0.0728 4.715 mg/L 0.0728 1.54%

QC value within limits for Fe 238.204 Recovery = 94.29%

K 766.490† 30737.9 9.285 mg/L 0.1404 9.285 mg/L 0.1404 1.51%

QC value within limits for K 766.490 Recovery = 92.85%

Mg 285.213† 80112.4 9.299 mg/L 0.1232 9.299 mg/L 0.1232 1.32%

QC value within limits for Mg 285.213 Recovery = 92.99%

Mn 257.610† 118125.7 4.728 mg/L 0.0706 4.728 mg/L 0.0706 1.49%

QC value within limits for Mn 257.610 Recovery = 94.55%

Mo 202.031† 121388.7 4.821 mg/L 0.0186 4.821 mg/L 0.0186 0.38%

QC value within limits for Mo 202.031 Recovery = 96.42%

Na 589.592† 106067.6 8.723 mg/L 0.3248 8.723 mg/L 0.3248 3.72%

QC value less than the lower limit for Na 589.592 Recovery = 87.23%

Ni 231.604† 195158.5 4.897 mg/L 0.0226 4.897 mg/L 0.0226 0.46%

QC value within limits for Ni 231.604 Recovery = 97.93%

Pb 220.353† 61272.1 4.927 mg/L 0.0032 4.927 mg/L 0.0032 0.06%

QC value within limits for Pb 220.353 Recovery = 98.53%

Sb 206.836† 30449.2 4.753 mg/L 0.0071 4.753 mg/L 0.0071 0.15%

QC value within limits for Sb 206.836 Recovery = 95.06%

Se 196.026† 9671.3 4.808 mg/L 0.0166 4.808 mg/L 0.0166 0.35%

QC value within limits for Se 196.026 Recovery = 96.16%

Sn 189.927† 42067.7 4.884 mg/L 0.0095 4.884 mg/L 0.0095 0.19%

QC value within limits for Sn 189.927 Recovery = 97.67%

Ti 337.279† 88037.4 4.644 mg/L 0.0626 4.644 mg/L 0.0626 1.35%

QC value within limits for Ti 337.279 Recovery = 92.87%

Tl 351.924† 28630.9 2.371 mg/L 0.0063 2.371 mg/L 0.0063 0.27%

QC value within limits for Tl 351.924 Recovery = 94.86%

V 290.880† 1079398.6 4.857 mg/L 0.0242 4.857 mg/L 0.0242 0.50%

QC value within limits for V 290.880 Recovery = 97.14%

Zn 206.200† 360808.2 5.028 mg/L 0.0254 5.028 mg/L 0.0254 0.51%

QC value within limits for Zn 206.200 Recovery = 100.56%

Zr 343.823† 2153184.0 4.783 mg/L 0.0231 4.783 mg/L 0.0231 0.48%

QC Failed. Continue with analysis.

User canceled analysis.

=====

Analysis Begun

Start Time: 4/17/2024 9:11:51 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 103

Autosampler Location: 1

Sample ID: SEQ-CCB@ 23J0970

Date Collected: 4/17/2024 9:11:52 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 230

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5212803.2	94.87 %	0.943			0.99%
Y radial	184777.1	96.17 %	0.975			1.01%
Ag 328.068†	529.3	0.0018 mg/L	0.00024	0.0018 mg/L	0.00024	13.58%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 396.153†	6.3	0.0016 mg/L	0.00834	0.0016 mg/L	0.00834	533.60%
QC value within limits for Al 396.153		Recovery =	Not calculated			
As 188.979†	-15.6	-0.0046 mg/L	0.00072	-0.0046 mg/L	0.00072	15.52%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 208.889†	-2250.3	-0.1201 mg/L	0.00025	-0.1201 mg/L	0.00025	0.21%

QC value within limits for B 208.889	Recovery = Not calculated		
Ba 233.527†	2.1 0.0000 mg/L	0.00006 0.0000 mg/L	0.00006 363.03%
QC value within limits for Ba 233.527	Recovery = Not calculated		
Be 313.107†	-14.6 -0.0000 mg/L	0.00002 -0.0000 mg/L	0.00002 52.90%
QC value within limits for Be 313.107	Recovery = Not calculated		
Ca 317.933†	19.0 0.0027 mg/L	0.00148 0.0027 mg/L	0.00148 54.05%
QC value within limits for Ca 317.933	Recovery = Not calculated		
Cd 228.802†	-3.6 0.0001 mg/L	0.00007 0.0001 mg/L	0.00007 100.16%
QC value within limits for Cd 228.802	Recovery = Not calculated		
Co 228.616†	-4.5 -0.0000 mg/L	0.00011 -0.0000 mg/L	0.00011 259.24%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-5.1 -0.0000 mg/L	0.00011 -0.0000 mg/L	0.00011 277.66%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 327.393†	-1160.5 -0.0065 mg/L	0.00023 -0.0065 mg/L	0.00023 3.55%
QC value within limits for Cu 327.393	Recovery = Not calculated		
Fe 238.204†	-0.3 -0.0001 mg/L	0.00178 -0.0001 mg/L	0.00178 >999.9%
QC value within limits for Fe 238.204	Recovery = Not calculated		
K 766.490†	232.9 0.0703 mg/L	0.01101 0.0703 mg/L	0.01101 15.66%
QC value within limits for K 766.490	Recovery = Not calculated		
Mg 285.213†	2.6 0.0003 mg/L	0.00019 0.0003 mg/L	0.00019 60.27%
QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610†	-0.4 -0.0000 mg/L	0.00012 -0.0000 mg/L	0.00012 775.39%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	36.3 0.0014 mg/L	0.00004 0.0014 mg/L	0.00004 2.64%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592†	276.6 0.0227 mg/L	0.00364 0.0227 mg/L	0.00364 16.02%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604†	3.9 0.0001 mg/L	0.00011 0.0001 mg/L	0.00011 116.70%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353†	17.8 0.0014 mg/L	0.00098 0.0014 mg/L	0.00098 68.01%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836†	6.2 0.0010 mg/L	0.00035 0.0010 mg/L	0.00035 35.03%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	4.1 0.0021 mg/L	0.00136 0.0021 mg/L	0.00136 65.96%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927†	7.0 0.0008 mg/L	0.00018 0.0008 mg/L	0.00018 22.56%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279†	31.1 0.0016 mg/L	0.00027 0.0016 mg/L	0.00027 16.72%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924†	68.5 0.0058 mg/L	0.00638 0.0058 mg/L	0.00638 110.87%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880†	349.6 0.0016 mg/L	0.00050 0.0016 mg/L	0.00050 32.07%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200†	-45.5 -0.0006 mg/L	0.00012 -0.0006 mg/L	0.00012 18.05%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823†	-47.7 -0.0001 mg/L	0.00002 -0.0001 mg/L	0.00002 16.50%

All analyte(s) passed QC.

User canceled analysis.

=====
Analysis Begun

Start Time: 4/17/2024 9:16:27 PM

Plasma On Time: 4/17/2024 7:37:13 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0417A24.sif

Batch ID: Optima 2

Results Data Set: 0417A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 104

Autosampler Location: 108

Sample ID: 24D1392-02

Date Collected: 4/17/2024 9:16:27 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

Mean Data: 24D1392-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5027044.7	91.49	%	3.836				4.19%
Y radial	183531.3	95.52	%	2.879				3.01%
Ag 328.068†	-5689.1	-0.0122	mg/L	0.00120	-0.0122	mg/L	0.00120	9.90%
Al 396.153†	913732.8	236.4	mg/L	8.06	236.4	mg/L	8.06	3.41%
As 188.979†	-716.1	0.0465	mg/L	0.01873	0.0465	mg/L	0.01873	40.27%
B 208.889†	-2151.1	-0.1147	mg/L	0.00136	-0.1147	mg/L	0.00136	1.18%
Ba 233.527†	294936.3	1.705	mg/L	0.0767	1.705	mg/L	0.0767	4.50%
Be 313.107†	3681.9	0.0054	mg/L	0.00048	0.0054	mg/L	0.00048	8.88%
Ca 317.933†	212771.7	30.61	mg/L	1.070	30.61	mg/L	1.070	3.50%
Cd 228.802†	-347.2	0.0020	mg/L	0.00007	0.0020	mg/L	0.00007	3.42%
Co 228.616†	14746.8	0.1078	mg/L	0.00746	0.1078	mg/L	0.00746	6.92%
Cr 267.716†	41425.6	0.3146	mg/L	0.01339	0.3146	mg/L	0.01339	4.26%
Cu 327.393†	52479.6	0.2952	mg/L	0.01384	0.2952	mg/L	0.01384	4.69%
Fe 238.204†	679267.2	286.0	mg/L	9.60	286.0	mg/L	9.60	3.36%
K 766.490†	224898.8	67.93	mg/L	2.401	67.93	mg/L	2.401	3.53%
Mg 285.213†	669109.7	78.08	mg/L	2.704	78.08	mg/L	2.704	3.46%
Mn 257.610†	144293.8	5.797	mg/L	0.1814	5.797	mg/L	0.1814	3.13%
Mo 202.031†	-13.3	-0.0005	mg/L	0.00063	-0.0005	mg/L	0.00063	118.74%
Na 589.592†	16896.4	1.390	mg/L	0.0430	1.390	mg/L	0.0430	3.10%
Ni 231.604†	8496.5	0.2133	mg/L	0.00938	0.2133	mg/L	0.00938	4.40%
Pb 220.353†	877.8	0.0851	mg/L	0.00376	0.0851	mg/L	0.00376	4.42%
Sb 206.836†	-40.7	0.0022	mg/L	0.00168	0.0022	mg/L	0.00168	78.03%
Se 196.026†	25.2	0.0017	mg/L	0.00294	0.0017	mg/L	0.00294	168.15%
Sn 189.927†	-177.5	-0.0207	mg/L	0.00078	-0.0207	mg/L	0.00078	3.78%
Ti 337.279†	336309.0	17.75	mg/L	0.620	17.75	mg/L	0.620	3.49%
Tl 351.924†	-1845.0	-0.0326	mg/L	0.01012	-0.0326	mg/L	0.01012	31.08%
V 290.880†	134466.6	0.5916	mg/L	0.02770	0.5916	mg/L	0.02770	4.68%
Zn 206.200†	51365.1	0.6948	mg/L	0.03379	0.6948	mg/L	0.03379	4.86%
Zr 343.823†	20445.6	0.0386	mg/L	0.00284	0.0386	mg/L	0.00284	7.37%

Sequence No.: 105

Sample ID: 24D1392-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 109

Date Collected: 4/17/2024 9:21:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1392-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5066750.3	92.21	%	0.557				0.60%
Y radial	182135.3	94.79	%	0.213				0.22%
Ag 328.068†	-2708.2	-0.0058	mg/L	0.00018	-0.0058	mg/L	0.00018	3.08%
Al 396.153†	427729.0	110.7	mg/L	0.74	110.7	mg/L	0.74	0.67%
As 188.979†	-247.1	0.0492	mg/L	0.00179	0.0492	mg/L	0.00179	3.63%
B 208.889†	-2107.1	-0.1133	mg/L	0.00047	-0.1133	mg/L	0.00047	0.41%
Ba 233.527†	93088.3	0.5264	mg/L	0.00253	0.5264	mg/L	0.00253	0.48%
Be 313.107†	2000.5	0.0032	mg/L	0.00012	0.0032	mg/L	0.00012	3.85%
Ca 317.933†	32444.1	4.667	mg/L	0.0488	4.667	mg/L	0.0488	1.04%
Cd 228.802†	-75.2	0.0023	mg/L	0.00022	0.0023	mg/L	0.00022	9.54%
Co 228.616†	14592.0	0.1292	mg/L	0.00025	0.1292	mg/L	0.00025	0.19%
Cr 267.716†	17540.6	0.1315	mg/L	0.00088	0.1315	mg/L	0.00088	0.67%
Cu 327.393†	35425.1	0.1992	mg/L	0.00044	0.1992	mg/L	0.00044	0.22%
Fe 238.204†	424878.7	178.9	mg/L	0.76	178.9	mg/L	0.76	0.42%
K 766.490†	79739.9	24.09	mg/L	0.177	24.09	mg/L	0.177	0.74%
Mg 285.213†	267169.3	31.23	mg/L	0.163	31.23	mg/L	0.163	0.52%
Mn 257.610†	163995.3	6.577	mg/L	0.0354	6.577	mg/L	0.0354	0.54%
Mo 202.031†	434.9	0.0173	mg/L	0.00039	0.0173	mg/L	0.00039	2.25%
Na 589.592†	6675.8	0.5490	mg/L	0.01378	0.5490	mg/L	0.01378	2.51%
Ni 231.604†	4525.7	0.1136	mg/L	0.00076	0.1136	mg/L	0.00076	0.67%
Pb 220.353†	1334.6	0.1128	mg/L	0.00123	0.1128	mg/L	0.00123	1.09%
Sb 206.836†	-21.7	0.0031	mg/L	0.00195	0.0031	mg/L	0.00195	62.32%
Se 196.026†	15.0	0.0049	mg/L	0.00273	0.0049	mg/L	0.00273	55.41%
Sn 189.927†	109.1	0.0127	mg/L	0.00046	0.0127	mg/L	0.00046	3.67%
Ti 337.279†	134044.2	7.074	mg/L	0.0454	7.074	mg/L	0.0454	0.64%

Tl 351.924†	-1036.8	0.0037 mg/L	0.00586	0.0037 mg/L	0.00586	159.32%
V 290.880†	60479.5	0.2621 mg/L	0.00137	0.2621 mg/L	0.00137	0.52%
Zn 206.200†	40700.0	0.5529 mg/L	0.00155	0.5529 mg/L	0.00155	0.28%
Zr 343.823†	8474.3	0.0146 mg/L	0.00011	0.0146 mg/L	0.00011	0.75%

Sequence No.: 106
Sample ID: 24D1392-04
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 110
Date Collected: 4/17/2024 9:25:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1392-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5137746.8	93.51 %		0.787			0.84%
Y radial	178887.7	93.10 %		1.835			1.97%
Ag 328.068†	-2704.6	-0.0049 mg/L		0.00034	-0.0049 mg/L	0.00034	6.95%
Al 396.153†	369237.7	95.53 mg/L		1.782	95.53 mg/L	1.782	1.87%
As 188.979†	-212.7	0.0518 mg/L		0.00332	0.0518 mg/L	0.00332	6.40%
B 208.889†	-2143.6	-0.1145 mg/L		0.00024	-0.1145 mg/L	0.00024	0.21%
Ba 233.527†	83620.0	0.4715 mg/L		0.00316	0.4715 mg/L	0.00316	0.67%
Be 313.107†	1843.2	0.0030 mg/L		0.00016	0.0030 mg/L	0.00016	5.34%
Ca 317.933†	67698.6	9.738 mg/L		0.2529	9.738 mg/L	0.2529	2.60%
Cd 228.802†	632.7	0.0079 mg/L		0.00005	0.0079 mg/L	0.00005	0.69%
Co 228.616†	5675.1	0.0421 mg/L		0.00009	0.0421 mg/L	0.00009	0.22%
Cr 267.716†	19589.7	0.1492 mg/L		0.00139	0.1492 mg/L	0.00139	0.93%
Cu 327.393†	36557.7	0.2056 mg/L		0.00271	0.2056 mg/L	0.00271	1.32%
Fe 238.204†	404927.0	170.5 mg/L		3.25	170.5 mg/L	3.25	1.91%
K 766.490†	67099.1	20.27 mg/L		0.355	20.27 mg/L	0.355	1.75%
Mg 285.213†	246734.1	28.85 mg/L		0.543	28.85 mg/L	0.543	1.88%
Mn 257.610†	40753.4	1.644 mg/L		0.0405	1.644 mg/L	0.0405	2.47%
Mo 202.031†	83.3	0.0033 mg/L		0.00010	0.0033 mg/L	0.00010	2.97%
Na 589.592†	6835.8	0.5622 mg/L		0.01426	0.5622 mg/L	0.01426	2.54%
Ni 231.604†	3679.2	0.0924 mg/L		0.00113	0.0924 mg/L	0.00113	1.22%
Pb 220.353†	11627.0	0.9387 mg/L		0.00823	0.9387 mg/L	0.00823	0.88%
Sb 206.836†	-11.3	0.0040 mg/L		0.00075	0.0040 mg/L	0.00075	18.83%
Se 196.026†	10.9	0.0039 mg/L		0.00201	0.0039 mg/L	0.00201	51.73%
Sn 189.927†	136.5	0.0158 mg/L		0.00052	0.0158 mg/L	0.00052	3.28%
Ti 337.279†	123871.8	6.537 mg/L		0.1119	6.537 mg/L	0.1119	1.71%
Tl 351.924†	-1030.9	0.0007 mg/L		0.00537	0.0007 mg/L	0.00537	784.85%
V 290.880†	53487.4	0.2310 mg/L		0.00198	0.2310 mg/L	0.00198	0.86%
Zn 206.200†	102735.7	1.414 mg/L		0.0123	1.414 mg/L	0.0123	0.87%
Zr 343.823†	6049.5	0.0094 mg/L		0.00026	0.0094 mg/L	0.00026	2.73%

Sequence No.: 107
Sample ID: 24D1392-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 111
Date Collected: 4/17/2024 9:30:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1392-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5079660.1	92.45 %		0.529			0.57%
Y radial	179423.2	93.38 %		0.282			0.30%
Ag 328.068†	-3020.1	-0.0057 mg/L		0.00018	-0.0057 mg/L	0.00018	3.22%
Al 396.153†	413337.0	106.9 mg/L		0.76	106.9 mg/L	0.76	0.71%
As 188.979†	-268.4	0.0464 mg/L		0.00086	0.0464 mg/L	0.00086	1.86%
B 208.889†	-2166.2	-0.1157 mg/L		0.00099	-0.1157 mg/L	0.00099	0.86%
Ba 233.527†	102647.6	0.5828 mg/L		0.00587	0.5828 mg/L	0.00587	1.01%
Be 313.107†	1951.6	0.0031 mg/L		0.00014	0.0031 mg/L	0.00014	4.37%
Ca 317.933†	109614.9	15.77 mg/L		0.142	15.77 mg/L	0.142	0.90%
Cd 228.802†	422.0	0.0064 mg/L		0.00001	0.0064 mg/L	0.00001	0.15%
Co 228.616†	6434.6	0.0477 mg/L		0.00016	0.0477 mg/L	0.00016	0.34%

Cr 267.716†	18095.9	0.1378 mg/L	0.00071	0.1378 mg/L	0.00071	0.52%
Cu 327.393†	34195.3	0.1923 mg/L	0.00163	0.1923 mg/L	0.00163	0.85%
Fe 238.204†	424471.4	178.7 mg/L	1.53	178.7 mg/L	1.53	0.86%
K 766.490†	83135.6	25.11 mg/L	0.173	25.11 mg/L	0.173	0.69%
Mg 285.213†	267532.8	31.27 mg/L	0.252	31.27 mg/L	0.252	0.81%
Mn 257.610†	41119.3	1.659 mg/L	0.0219	1.659 mg/L	0.0219	1.32%
Mo 202.031†	65.1	0.0026 mg/L	0.00016	0.0026 mg/L	0.00016	6.28%
Na 589.592†	7965.9	0.6551 mg/L	0.00687	0.6551 mg/L	0.00687	1.05%
Ni 231.604†	3775.5	0.0948 mg/L	0.00019	0.0948 mg/L	0.00019	0.20%
Pb 220.353†	10344.8	0.8366 mg/L	0.00371	0.8366 mg/L	0.00371	0.44%
Sb 206.836†	-21.6	0.0030 mg/L	0.00058	0.0030 mg/L	0.00058	19.38%
Se 196.026†	14.8	0.0050 mg/L	0.00027	0.0050 mg/L	0.00027	5.39%
Sn 189.927†	51.2	0.0059 mg/L	0.00077	0.0059 mg/L	0.00077	12.97%
Ti 337.279†	140276.3	7.403 mg/L	0.0600	7.403 mg/L	0.0600	0.81%
Tl 351.924†	-1098.8	-0.0028 mg/L	0.00226	-0.0028 mg/L	0.00226	81.17%
V 290.880†	61247.3	0.2657 mg/L	0.00291	0.2657 mg/L	0.00291	1.09%
Zn 206.200†	85383.0	1.173 mg/L	0.0117	1.173 mg/L	0.0117	1.00%
Zr 343.823†	6129.5	0.0094 mg/L	0.00011	0.0094 mg/L	0.00011	1.23%

Sequence No.: 108

Sample ID: 24D1473-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 112

Date Collected: 4/17/2024 9:35:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1473-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5146727.9	93.67 %	1.375			1.47%
Y radial	181198.1	94.31 %	1.117			1.18%
Ag 328.068†	-2163.0	-0.0051 mg/L	0.00041	-0.0051 mg/L	0.00041	8.19%
Al 396.153†	290279.1	75.10 mg/L	0.163	75.10 mg/L	0.163	0.22%
As 188.979†	-258.9	0.0240 mg/L	0.00211	0.0240 mg/L	0.00211	8.81%
B 208.889†	-2228.2	-0.1187 mg/L	0.00041	-0.1187 mg/L	0.00041	0.35%
Ba 233.527†	94051.5	0.5416 mg/L	0.00686	0.5416 mg/L	0.00686	1.27%
Be 313.107†	1289.2	0.0021 mg/L	0.00007	0.0021 mg/L	0.00007	3.12%
Ca 317.933†	153549.9	22.09 mg/L	0.036	22.09 mg/L	0.036	0.16%
Cd 228.802†	-76.5	0.0011 mg/L	0.00014	0.0011 mg/L	0.00014	12.86%
Co 228.616†	6538.6	0.0496 mg/L	0.00058	0.0496 mg/L	0.00058	1.18%
Cr 267.716†	11299.0	0.0856 mg/L	0.00128	0.0856 mg/L	0.00128	1.50%
Cu 327.393†	16589.2	0.0934 mg/L	0.00178	0.0934 mg/L	0.00178	1.91%
Fe 238.204†	250622.2	105.5 mg/L	0.11	105.5 mg/L	0.11	0.10%
K 766.490†	56338.7	17.02 mg/L	0.044	17.02 mg/L	0.044	0.26%
Mg 285.213†	229327.4	26.76 mg/L	0.036	26.76 mg/L	0.036	0.13%
Mn 257.610†	50977.4	2.048 mg/L	0.0270	2.048 mg/L	0.0270	1.32%
Mo 202.031†	-64.8	-0.0026 mg/L	0.00013	-0.0026 mg/L	0.00013	5.16%
Na 589.592†	7389.0	0.6077 mg/L	0.00732	0.6077 mg/L	0.00732	1.20%
Ni 231.604†	2785.8	0.0699 mg/L	0.00084	0.0699 mg/L	0.00084	1.20%
Pb 220.353†	457.0	0.0405 mg/L	0.00169	0.0405 mg/L	0.00169	4.18%
Sb 206.836†	1.2	0.0039 mg/L	0.00139	0.0039 mg/L	0.00139	35.93%
Se 196.026†	12.0	0.0013 mg/L	0.00134	0.0013 mg/L	0.00134	103.07%
Sn 189.927†	15.8	0.0018 mg/L	0.00089	0.0018 mg/L	0.00089	49.41%
Ti 337.279†	133201.3	7.030 mg/L	0.0151	7.030 mg/L	0.0151	0.21%
Tl 351.924†	-817.3	-0.0249 mg/L	0.00004	-0.0249 mg/L	0.00004	0.16%
V 290.880†	37006.3	0.1617 mg/L	0.00290	0.1617 mg/L	0.00290	1.79%
Zn 206.200†	17430.3	0.2350 mg/L	0.00268	0.2350 mg/L	0.00268	1.14%
Zr 343.823†	14222.5	0.0291 mg/L	0.00012	0.0291 mg/L	0.00012	0.42%

Sequence No.: 109

Sample ID: 24D1473-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 113

Date Collected: 4/17/2024 9:39:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1473-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4996038.1	90.93	%	1.193				1.31%
Y radial	184974.0	96.27	%	3.880				4.03%
Ag 328.068†	-2122.4	-0.0049	mg/L	0.00034	-0.0049	mg/L	0.00034	6.94%
Al 396.153†	283915.0	73.46	mg/L	3.314	73.46	mg/L	3.314	4.51%
As 188.979†	-284.5	0.0128	mg/L	0.00320	0.0128	mg/L	0.00320	25.00%
B 208.889†	-2245.6	-0.1197	mg/L	0.00048	-0.1197	mg/L	0.00048	0.40%
Ba 233.527†	86447.5	0.4967	mg/L	0.00820	0.4967	mg/L	0.00820	1.65%
Be 313.107†	1522.1	0.0026	mg/L	0.00019	0.0026	mg/L	0.00019	7.04%
Ca 317.933†	134964.2	19.41	mg/L	0.826	19.41	mg/L	0.826	4.26%
Cd 228.802†	-82.8	0.0013	mg/L	0.00014	0.0013	mg/L	0.00014	11.07%
Co 228.616†	6225.9	0.0472	mg/L	0.00069	0.0472	mg/L	0.00069	1.46%
Cr 267.716†	11206.7	0.0850	mg/L	0.00170	0.0850	mg/L	0.00170	2.00%
Cu 327.393†	13833.4	0.0779	mg/L	0.00107	0.0779	mg/L	0.00107	1.38%
Fe 238.204†	250527.4	105.5	mg/L	4.58	105.5	mg/L	4.58	4.34%
K 766.490†	47726.2	14.42	mg/L	0.626	14.42	mg/L	0.626	4.35%
Mg 285.213†	213524.6	24.93	mg/L	1.102	24.93	mg/L	1.102	4.42%
Mn 257.610†	47601.9	1.913	mg/L	0.0581	1.913	mg/L	0.0581	3.03%
Mo 202.031†	-68.9	-0.0027	mg/L	0.00030	-0.0027	mg/L	0.00030	11.10%
Na 589.592†	7010.6	0.5766	mg/L	0.02089	0.5766	mg/L	0.02089	3.62%
Ni 231.604†	2620.1	0.0658	mg/L	0.00095	0.0658	mg/L	0.00095	1.44%
Pb 220.353†	593.6	0.0514	mg/L	0.00075	0.0514	mg/L	0.00075	1.45%
Sb 206.836†	8.7	0.0051	mg/L	0.00098	0.0051	mg/L	0.00098	19.32%
Se 196.026†	1.7	-0.0031	mg/L	0.00105	-0.0031	mg/L	0.00105	33.39%
Sn 189.927†	17.8	0.0020	mg/L	0.00057	0.0020	mg/L	0.00057	27.79%
Ti 337.279†	126587.0	6.681	mg/L	0.2943	6.681	mg/L	0.2943	4.41%
Tl 351.924†	-931.2	-0.0334	mg/L	0.00702	-0.0334	mg/L	0.00702	21.03%
V 290.880†	37402.8	0.1634	mg/L	0.00390	0.1634	mg/L	0.00390	2.39%
Zn 206.200†	20837.0	0.2822	mg/L	0.00539	0.2822	mg/L	0.00539	1.91%
Zr 343.823†	14897.0	0.0306	mg/L	0.00050	0.0306	mg/L	0.00050	1.62%

Sequence No.: 110

Sample ID: 24D1513-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 114

Date Collected: 4/17/2024 9:44:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1513-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4956875.0	90.21	%	0.629				0.70%
Y radial	176071.2	91.64	%	0.839				0.92%
Ag 328.068†	-2505.6	-0.0059	mg/L	0.00051	-0.0059	mg/L	0.00051	8.67%
Al 396.153†	258455.9	66.88	mg/L	0.823	66.88	mg/L	0.823	1.23%
As 188.979†	5794.0	1.859	mg/L	0.0097	1.859	mg/L	0.0097	0.52%
B 208.889†	5188.2	0.2748	mg/L	0.00284	0.2748	mg/L	0.00284	1.03%
Ba 233.527†	174892.8	0.9902	mg/L	0.00776	0.9902	mg/L	0.00776	0.78%
Be 313.107†	16546.6	0.0362	mg/L	0.00050	0.0362	mg/L	0.00050	1.39%
Ca 317.933†	813977.4	117.1	mg/L	1.09	117.1	mg/L	1.09	0.93%
Cd 228.802†	3966.2	0.0010	mg/L	0.00011	0.0010	mg/L	0.00011	11.14%
Co 228.616†	20801.1	0.1998	mg/L	0.00136	0.1998	mg/L	0.00136	0.68%
Cr 267.716†	34477.0	0.2570	mg/L	0.00166	0.2570	mg/L	0.00166	0.65%
Cu 327.393†	283937.8	1.597	mg/L	0.0101	1.597	mg/L	0.0101	0.63%
Fe 238.204†	769060.4	323.8	mg/L	3.00	323.8	mg/L	3.00	0.93%
K 766.490†	20338.4	6.144	mg/L	0.1089	6.144	mg/L	0.1089	1.77%
Mg 285.213†	102256.0	12.12	mg/L	0.141	12.12	mg/L	0.141	1.16%
Mn 257.610†	395433.8	15.85	mg/L	0.179	15.85	mg/L	0.179	1.13%
Mo 202.031†	998.4	0.0397	mg/L	0.00033	0.0397	mg/L	0.00033	0.84%
Na 589.592†	178436.0	14.67	mg/L	0.177	14.67	mg/L	0.177	1.20%
Ni 231.604†	31721.6	0.7961	mg/L	0.00507	0.7961	mg/L	0.00507	0.64%
Pb 220.353†	2456.6	0.1919	mg/L	0.00166	0.1919	mg/L	0.00166	0.87%
Sb 206.836†	-1.2	0.0108	mg/L	0.00030	0.0108	mg/L	0.00030	2.76%
Se 196.026†	131.1	0.0571	mg/L	0.00389	0.0571	mg/L	0.00389	6.82%
Sn 189.927†	218.3	0.0252	mg/L	0.00052	0.0252	mg/L	0.00052	2.09%
Ti 337.279†	49912.6	2.634	mg/L	0.0283	2.634	mg/L	0.0283	1.07%

Tl 351.924†	-2010.4	0.0308 mg/L	0.00019	0.0308 mg/L	0.00019	0.62%
V 290.880†	57447.5	0.2361 mg/L	0.00244	0.2361 mg/L	0.00244	1.03%
Zn 206.200†	139146.9	1.908 mg/L	0.0183	1.908 mg/L	0.0183	0.96%
Zr 343.823†	91693.9	0.1960 mg/L	0.00104	0.1960 mg/L	0.00104	0.53%

Sequence No.: 111
Sample ID: 24D1653-01
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 115
Date Collected: 4/17/2024 9:49:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1653-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5128295.5	93.33 %		0.390			0.42%
Y radial	181903.4	94.67 %		3.514			3.71%
Ag 328.068†	-1648.5	-0.0038 mg/L		0.00018	-0.0038 mg/L	0.00018	4.71%
Al 396.153†	230675.1	59.68 mg/L		2.884	59.68 mg/L	2.884	4.83%
As 188.979†	-249.8	0.0123 mg/L		0.00349	0.0123 mg/L	0.00349	28.38%
B 208.889†	-2277.4	-0.1214 mg/L		0.00064	-0.1214 mg/L	0.00064	0.53%
Ba 233.527†	58902.3	0.3370 mg/L		0.00320	0.3370 mg/L	0.00320	0.95%
Be 313.107†	1085.3	0.0018 mg/L		0.00006	0.0018 mg/L	0.00006	3.23%
Ca 317.933†	141635.2	20.37 mg/L		1.035	20.37 mg/L	1.035	5.08%
Cd 228.802†	-65.9	0.0010 mg/L		0.00006	0.0010 mg/L	0.00006	6.26%
Co 228.616†	5899.0	0.0449 mg/L		0.00098	0.0449 mg/L	0.00098	2.18%
Cr 267.716†	9140.9	0.0694 mg/L		0.00049	0.0694 mg/L	0.00049	0.70%
Cu 327.393†	11544.1	0.0650 mg/L		0.00082	0.0650 mg/L	0.00082	1.26%
Fe 238.204†	197834.4	83.28 mg/L		4.203	83.28 mg/L	4.203	5.05%
K 766.490†	38547.7	11.64 mg/L		0.561	11.64 mg/L	0.561	4.81%
Mg 285.213†	164404.5	19.19 mg/L		0.951	19.19 mg/L	0.951	4.95%
Mn 257.610†	35790.6	1.439 mg/L		0.0536	1.439 mg/L	0.0536	3.73%
Mo 202.031†	-45.3	-0.0018 mg/L		0.00006	-0.0018 mg/L	0.00006	3.41%
Na 589.592†	6805.8	0.5597 mg/L		0.02833	0.5597 mg/L	0.02833	5.06%
Ni 231.604†	2172.5	0.0546 mg/L		0.00033	0.0546 mg/L	0.00033	0.61%
Pb 220.353†	386.6	0.0339 mg/L		0.00052	0.0339 mg/L	0.00052	1.54%
Sb 206.836†	7.1	0.0040 mg/L		0.00194	0.0040 mg/L	0.00194	48.38%
Se 196.026†	4.8	-0.0012 mg/L		0.00157	-0.0012 mg/L	0.00157	135.84%
Sn 189.927†	45.1	0.0052 mg/L		0.00109	0.0052 mg/L	0.00109	20.99%
Ti 337.279†	118262.2	6.241 mg/L		0.3077	6.241 mg/L	0.3077	4.93%
Tl 351.924†	-751.3	-0.0310 mg/L		0.00751	-0.0310 mg/L	0.00751	24.22%
V 290.880†	29758.4	0.1304 mg/L		0.00209	0.1304 mg/L	0.00209	1.60%
Zn 206.200†	12675.8	0.1705 mg/L		0.00186	0.1705 mg/L	0.00186	1.09%
Zr 343.823†	13154.4	0.0272 mg/L		0.00025	0.0272 mg/L	0.00025	0.93%

Sequence No.: 112
Sample ID: 24D1653-02
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 116
Date Collected: 4/17/2024 9:53:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1653-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5184141.6	94.35 %		0.352			0.37%
Y radial	180940.5	94.17 %		1.269			1.35%
Ag 328.068†	-1675.1	-0.0038 mg/L		0.00024	-0.0038 mg/L	0.00024	6.29%
Al 396.153†	234616.9	60.70 mg/L		0.173	60.70 mg/L	0.173	0.29%
As 188.979†	-237.2	0.0155 mg/L		0.00209	0.0155 mg/L	0.00209	13.50%
B 208.889†	-2326.2	-0.1240 mg/L		0.00055	-0.1240 mg/L	0.00055	0.44%
Ba 233.527†	52614.2	0.2996 mg/L		0.00411	0.2996 mg/L	0.00411	1.37%
Be 313.107†	1067.4	0.0018 mg/L		0.00014	0.0018 mg/L	0.00014	7.55%
Ca 317.933†	121873.1	17.53 mg/L		0.044	17.53 mg/L	0.044	0.25%
Cd 228.802†	-65.3	0.0010 mg/L		0.00008	0.0010 mg/L	0.00008	8.28%
Co 228.616†	5923.9	0.0454 mg/L		0.00031	0.0454 mg/L	0.00031	0.69%

Cr 267.716†	8275.1	0.0627 mg/L	0.00027	0.0627 mg/L	0.00027	0.43%
Cu 327.393†	11311.6	0.0637 mg/L	0.00078	0.0637 mg/L	0.00078	1.22%
Fe 238.204†	201916.1	85.00 mg/L	0.153	85.00 mg/L	0.153	0.18%
K 766.490†	33938.6	10.25 mg/L	0.142	10.25 mg/L	0.142	1.38%
Mg 285.213†	159415.0	18.61 mg/L	0.034	18.61 mg/L	0.034	0.18%
Mn 257.610†	36005.8	1.448 mg/L	0.0203	1.448 mg/L	0.0203	1.40%
Mo 202.031†	-52.1	-0.0021 mg/L	0.00008	-0.0021 mg/L	0.00008	3.76%
Na 589.592†	6034.3	0.4963 mg/L	0.00595	0.4963 mg/L	0.00595	1.20%
Ni 231.604†	2132.4	0.0536 mg/L	0.00039	0.0536 mg/L	0.00039	0.72%
Pb 220.353†	294.1	0.0266 mg/L	0.00128	0.0266 mg/L	0.00128	4.80%
Sb 206.836†	9.6	0.0046 mg/L	0.00109	0.0046 mg/L	0.00109	23.66%
Se 196.026†	6.6	0.0002 mg/L	0.00157	0.0002 mg/L	0.00157	877.63%
Sn 189.927†	57.0	0.0066 mg/L	0.00057	0.0066 mg/L	0.00057	8.60%
Ti 337.279†	116238.0	6.134 mg/L	0.0191	6.134 mg/L	0.0191	0.31%
Tl 351.924†	-811.6	-0.0346 mg/L	0.00672	-0.0346 mg/L	0.00672	19.43%
V 290.880†	28388.8	0.1241 mg/L	0.00249	0.1241 mg/L	0.00249	2.01%
Zn 206.200†	12539.7	0.1684 mg/L	0.00107	0.1684 mg/L	0.00107	0.64%
Zr 343.823†	12734.5	0.0263 mg/L	0.00047	0.0263 mg/L	0.00047	1.77%

Sequence No.: 113
Sample ID: 24D1668-01
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 117
Date Collected: 4/17/2024 9:58:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1668-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5100917.8	92.84	%	0.591				0.64%
Y radial	183027.9	95.26	%	0.414				0.43%
Ag 328.068†	-2802.5	-0.0056	mg/L	0.00058	-0.0056	mg/L	0.00058	10.29%
Al 396.153†	310446.9	80.32	mg/L	0.363	80.32	mg/L	0.363	0.45%
As 188.979†	12.4	0.0983	mg/L	0.00185	0.0983	mg/L	0.00185	1.88%
B 208.889†	-1282.8	-0.0687	mg/L	0.00060	-0.0687	mg/L	0.00060	0.87%
Ba 233.527†	73973.9	0.4160	mg/L	0.00391	0.4160	mg/L	0.00391	0.94%
Be 313.107†	1711.2	0.0029	mg/L	0.00007	0.0029	mg/L	0.00007	2.32%
Ca 317.933†	503232.8	72.39	mg/L	0.355	72.39	mg/L	0.355	0.49%
Cd 228.802†	805.2	0.0083	mg/L	0.00003	0.0083	mg/L	0.00003	0.36%
Co 228.616†	5957.3	0.0490	mg/L	0.00023	0.0490	mg/L	0.00023	0.47%
Cr 267.716†	14630.4	0.1115	mg/L	0.00147	0.1115	mg/L	0.00147	1.32%
Cu 327.393†	72026.1	0.4050	mg/L	0.00491	0.4050	mg/L	0.00491	1.21%
Fe 238.204†	378863.7	159.5	mg/L	0.76	159.5	mg/L	0.76	0.48%
K 766.490†	16986.2	5.131	mg/L	0.0442	5.131	mg/L	0.0442	0.86%
Mg 285.213†	250668.6	29.28	mg/L	0.123	29.28	mg/L	0.123	0.42%
Mn 257.610†	31004.1	1.253	mg/L	0.0078	1.253	mg/L	0.0078	0.62%
Mo 202.031†	144.2	0.0057	mg/L	0.00030	0.0057	mg/L	0.00030	5.31%
Na 589.592†	65915.1	5.421	mg/L	0.0179	5.421	mg/L	0.0179	0.33%
Ni 231.604†	3561.3	0.0894	mg/L	0.00054	0.0894	mg/L	0.00054	0.61%
Pb 220.353†	16086.2	1.296	mg/L	0.0178	1.296	mg/L	0.0178	1.38%
Sb 206.836†	29.8	0.0105	mg/L	0.00056	0.0105	mg/L	0.00056	5.30%
Se 196.026†	18.2	0.0007	mg/L	0.00250	0.0007	mg/L	0.00250	343.40%
Sn 189.927†	63.1	0.0073	mg/L	0.00179	0.0073	mg/L	0.00179	24.50%
Ti 337.279†	87331.2	4.609	mg/L	0.0353	4.609	mg/L	0.0353	0.77%
Tl 351.924†	-1163.2	-0.0108	mg/L	0.00772	-0.0108	mg/L	0.00772	71.21%
V 290.880†	43749.0	0.1872	mg/L	0.00223	0.1872	mg/L	0.00223	1.19%
Zn 206.200†	152493.7	2.104	mg/L	0.0211	2.104	mg/L	0.0211	1.00%
Zr 343.823†	9201.6	0.0166	mg/L	0.00146	0.0166	mg/L	0.00146	8.79%

Sequence No.: 114
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 5
Date Collected: 4/17/2024 10:03:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5061626.2	92.12 %	1.912			2.08%
Y radial	176577.2	91.90 %	0.501			0.55%
Ag 328.068†	708942.2	2.367 mg/L	0.0328	2.367 mg/L	0.0328	1.39%
QC value within limits for Ag 328.068 Recovery = 94.70%						
Al 396.153†	39210.4	9.890 mg/L	0.0892	9.890 mg/L	0.0892	0.90%
QC value within limits for Al 396.153 Recovery = 98.90%						
As 188.979†	15655.8	4.681 mg/L	0.1051	4.681 mg/L	0.1051	2.25%
QC value within limits for As 188.979 Recovery = 93.62%						
B 208.889†	85179.7	4.303 mg/L	0.0649	4.303 mg/L	0.0649	1.51%
QC value less than the lower limit for B 208.889 Recovery = 86.07%						
Ba 233.527†	819629.4	4.848 mg/L	0.0671	4.848 mg/L	0.0671	1.38%
QC value within limits for Ba 233.527 Recovery = 96.96%						
Be 313.107†	2059091.0	4.641 mg/L	0.0404	4.641 mg/L	0.0404	0.87%
QC value within limits for Be 313.107 Recovery = 92.82%						
Ca 317.933†	67476.4	9.706 mg/L	0.0414	9.706 mg/L	0.0414	0.43%
QC value within limits for Ca 317.933 Recovery = 97.06%						
Cd 228.802†	560791.8	4.839 mg/L	0.0777	4.839 mg/L	0.0777	1.61%
QC value within limits for Cd 228.802 Recovery = 96.78%						
Co 228.616†	488400.2	4.833 mg/L	0.0708	4.833 mg/L	0.0708	1.46%
QC value within limits for Co 228.616 Recovery = 96.65%						
Cr 267.716†	632378.6	4.839 mg/L	0.0691	4.839 mg/L	0.0691	1.43%
QC value within limits for Cr 267.716 Recovery = 96.78%						
Cu 327.393†	819788.0	4.626 mg/L	0.0607	4.626 mg/L	0.0607	1.31%
QC value within limits for Cu 327.393 Recovery = 92.52%						
Fe 238.204†	11590.5	4.905 mg/L	0.0258	4.905 mg/L	0.0258	0.53%
QC value within limits for Fe 238.204 Recovery = 98.10%						
K 766.490†	31430.3	9.494 mg/L	0.0749	9.494 mg/L	0.0749	0.79%
QC value within limits for K 766.490 Recovery = 94.94%						
Mg 285.213†	82866.8	9.620 mg/L	0.0624	9.620 mg/L	0.0624	0.65%
QC value within limits for Mg 285.213 Recovery = 96.20%						
Mn 257.610†	122095.9	4.886 mg/L	0.0220	4.886 mg/L	0.0220	0.45%
QC value within limits for Mn 257.610 Recovery = 97.73%						
Mo 202.031†	120588.8	4.789 mg/L	0.0636	4.789 mg/L	0.0636	1.33%
QC value within limits for Mo 202.031 Recovery = 95.79%						
Na 589.592†	103016.6	8.472 mg/L	0.0662	8.472 mg/L	0.0662	0.78%
QC value less than the lower limit for Na 589.592 Recovery = 84.72%						
Ni 231.604†	192601.6	4.832 mg/L	0.0678	4.832 mg/L	0.0678	1.40%
QC value within limits for Ni 231.604 Recovery = 96.65%						
Pb 220.353†	60450.2	4.861 mg/L	0.1066	4.861 mg/L	0.1066	2.19%
QC value within limits for Pb 220.353 Recovery = 97.21%						
Sb 206.836†	29999.5	4.683 mg/L	0.1029	4.683 mg/L	0.1029	2.20%
QC value within limits for Sb 206.836 Recovery = 93.65%						
Se 196.026†	9406.2	4.676 mg/L	0.1003	4.676 mg/L	0.1003	2.15%
QC value within limits for Se 196.026 Recovery = 93.52%						
Sn 189.927†	41655.0	4.836 mg/L	0.1028	4.836 mg/L	0.1028	2.13%
QC value within limits for Sn 189.927 Recovery = 96.71%						
Ti 337.279†	90529.6	4.775 mg/L	0.0294	4.775 mg/L	0.0294	0.62%
QC value within limits for Ti 337.279 Recovery = 95.50%						
Tl 351.924†	28380.2	2.350 mg/L	0.0496	2.350 mg/L	0.0496	2.11%
QC value within limits for Tl 351.924 Recovery = 94.02%						
V 290.880†	1065380.9	4.794 mg/L	0.0713	4.794 mg/L	0.0713	1.49%
QC value within limits for V 290.880 Recovery = 95.88%						
Zn 206.200†	355015.5	4.948 mg/L	0.0759	4.948 mg/L	0.0759	1.53%
QC value within limits for Zn 206.200 Recovery = 98.95%						
Zr 343.823†	2124115.3	4.718 mg/L	0.0611	4.718 mg/L	0.0611	1.30%
QC Failed. Continue with analysis.						

Sequence No.: 115

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 10:08:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5217092.0	94.95 %	0.896			0.94%
Y radial	181400.4	94.41 %	0.247			0.26%
Ag 328.068†	637.7	0.0021 mg/L	0.00018	0.0021 mg/L	0.00018	8.16%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-12.0	-0.0032 mg/L	0.01144	-0.0032 mg/L	0.01144	362.19%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-10.5	-0.0031 mg/L	0.00153	-0.0031 mg/L	0.00153	49.65%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-2360.3	-0.1260 mg/L	0.00040	-0.1260 mg/L	0.00040	0.32%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	11.4	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	106.31%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-41.5	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	22.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	39.3	0.0056 mg/L	0.00004	0.0056 mg/L	0.00004	0.64%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-10.3	-0.0000 mg/L	0.00005	-0.0000 mg/L	0.00005	214.08%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-4.8	-0.0000 mg/L	0.00009	-0.0000 mg/L	0.00009	193.87%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-20.5	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	59.53%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-1227.6	-0.0069 mg/L	0.00051	-0.0069 mg/L	0.00051	7.43%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	5.4	0.0023 mg/L	0.00092	0.0023 mg/L	0.00092	39.97%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	213.8	0.0646 mg/L	0.01862	0.0646 mg/L	0.01862	28.84%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	8.2	0.0010 mg/L	0.00015	0.0010 mg/L	0.00015	15.92%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	0.4	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	935.43%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	28.8	0.0011 mg/L	0.00020	0.0011 mg/L	0.00020	17.16%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	103.7	0.0085 mg/L	0.00187	0.0085 mg/L	0.00187	21.87%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	2.3	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	242.08%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	12.8	0.0010 mg/L	0.00043	0.0010 mg/L	0.00043	40.94%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	2.7	0.0004 mg/L	0.00034	0.0004 mg/L	0.00034	76.95%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.2	0.0001 mg/L	0.00154	0.0001 mg/L	0.00154	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	2.1	0.0002 mg/L	0.00037	0.0002 mg/L	0.00037	150.28%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	26.8	0.0014 mg/L	0.00040	0.0014 mg/L	0.00040	27.97%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	102.3	0.0086 mg/L	0.00571	0.0086 mg/L	0.00571	66.30%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-1.8	-0.0000 mg/L	0.00033	-0.0000 mg/L	0.00033	>999.9%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-93.1	-0.0013 mg/L	0.00009	-0.0013 mg/L	0.00009	6.73%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-117.1	-0.0003 mg/L	0.00009	-0.0003 mg/L	0.00009	32.77%
All analyte(s) passed QC.						

Sequence No.: 116
Sample ID: 24D1668-02
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 118
Date Collected: 4/17/2024 10:14:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1668-02

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	5037544.1	91.68 %	0.809			0.88%
Y radial	180619.5	94.00 %	1.202			1.28%
Ag 328.068†	-5157.6	-0.0108 mg/L	0.00080	-0.0108 mg/L	0.00080	7.43%
Al 396.153†	470858.7	121.8 mg/L	0.49	121.8 mg/L	0.49	0.40%
As 188.979†	-393.4	0.0303 mg/L	0.00555	0.0303 mg/L	0.00555	18.34%
B 208.889†	-1972.2	-0.1053 mg/L	0.00031	-0.1053 mg/L	0.00031	0.29%
Ba 233.527†	74390.2	0.4017 mg/L	0.00416	0.4017 mg/L	0.00416	1.04%
Be 313.107†	2703.1	0.0046 mg/L	0.00018	0.0046 mg/L	0.00018	3.83%
Ca 317.933†	682529.3	98.18 mg/L	0.570	98.18 mg/L	0.570	0.58%
Cd 228.802†	-239.1	0.0032 mg/L	0.00022	0.0032 mg/L	0.00022	6.77%
Co 228.616†	9166.9	0.0775 mg/L	0.00080	0.0775 mg/L	0.00080	1.03%
Cr 267.716†	19014.7	0.1445 mg/L	0.00114	0.1445 mg/L	0.00114	0.79%
Cu 327.393†	50908.7	0.2864 mg/L	0.00344	0.2864 mg/L	0.00344	1.20%
Fe 238.204†	682480.2	287.3 mg/L	1.70	287.3 mg/L	1.70	0.59%
K 766.490†	26194.0	7.912 mg/L	0.2151	7.912 mg/L	0.2151	2.72%
Mg 285.213†	631360.9	73.67 mg/L	0.391	73.67 mg/L	0.391	0.53%
Mn 257.610†	61189.2	2.471 mg/L	0.0559	2.471 mg/L	0.0559	2.26%
Mo 202.031†	46.6	0.0019 mg/L	0.00013	0.0019 mg/L	0.00013	7.06%
Na 589.592†	32504.7	2.673 mg/L	0.0158	2.673 mg/L	0.0158	0.59%
Ni 231.604†	5740.0	0.1441 mg/L	0.00113	0.1441 mg/L	0.00113	0.79%
Pb 220.353†	10222.1	0.8259 mg/L	0.00803	0.8259 mg/L	0.00803	0.97%
Sb 206.836†	-16.9	0.0091 mg/L	0.00130	0.0091 mg/L	0.00130	14.34%
Se 196.026†	17.6	-0.0071 mg/L	0.00100	-0.0071 mg/L	0.00100	14.06%
Sn 189.927†	530.9	0.0617 mg/L	0.00176	0.0617 mg/L	0.00176	2.85%
Ti 337.279†	115545.6	6.098 mg/L	0.0302	6.098 mg/L	0.0302	0.50%
Tl 351.924†	-1999.9	-0.0038 mg/L	0.00165	-0.0038 mg/L	0.00165	43.53%
V 290.880†	68416.9	0.2895 mg/L	0.00213	0.2895 mg/L	0.00213	0.74%
Zn 206.200†	77171.8	1.051 mg/L	0.0105	1.051 mg/L	0.0105	1.00%
Zr 343.823†	16929.3	0.0308 mg/L	0.00078	0.0308 mg/L	0.00078	2.52%

Sequence No.: 117

Sample ID: 24D1668-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 119

Date Collected: 4/17/2024 10:18:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1668-03

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5044209.8	91.80 %	4.643			5.06%
Y radial	178583.9	92.95 %	1.898			2.04%
Ag 328.068†	-3825.7	-0.0077 mg/L	0.00105	-0.0077 mg/L	0.00105	13.76%
Al 396.153†	761074.8	196.9 mg/L	3.93	196.9 mg/L	3.93	2.00%
As 188.979†	-344.1	0.0216 mg/L	0.00949	0.0216 mg/L	0.00949	43.96%
B 208.889†	-1922.7	-0.1030 mg/L	0.00267	-0.1030 mg/L	0.00267	2.59%
Ba 233.527†	89857.2	0.5061 mg/L	0.02939	0.5061 mg/L	0.02939	5.81%
Be 313.107†	2953.6	0.0050 mg/L	0.00033	0.0050 mg/L	0.00033	6.54%
Ca 317.933†	257023.0	36.97 mg/L	0.746	36.97 mg/L	0.746	2.02%
Cd 228.802†	-80.1	0.0028 mg/L	0.00013	0.0028 mg/L	0.00013	4.60%
Co 228.616†	7146.8	0.0560 mg/L	0.00347	0.0560 mg/L	0.00347	6.20%
Cr 267.716†	15117.6	0.1155 mg/L	0.00651	0.1155 mg/L	0.00651	5.64%
Cu 327.393†	21095.4	0.1187 mg/L	0.00751	0.1187 mg/L	0.00751	6.33%
Fe 238.204†	448547.1	188.8 mg/L	3.88	188.8 mg/L	3.88	2.06%
K 766.490†	12450.1	3.761 mg/L	0.1240	3.761 mg/L	0.1240	3.30%
Mg 285.213†	188916.5	22.12 mg/L	0.461	22.12 mg/L	0.461	2.08%
Mn 257.610†	18808.1	0.7674 mg/L	0.02400	0.7674 mg/L	0.02400	3.13%
Mo 202.031†	223.1	0.0089 mg/L	0.00039	0.0089 mg/L	0.00039	4.35%
Na 589.592†	35020.2	2.880 mg/L	0.0614	2.880 mg/L	0.0614	2.13%
Ni 231.604†	3380.4	0.0849 mg/L	0.00446	0.0849 mg/L	0.00446	5.26%
Pb 220.353†	2045.5	0.1810 mg/L	0.00874	0.1810 mg/L	0.00874	4.83%
Sb 206.836†	-8.1	0.0062 mg/L	0.00102	0.0062 mg/L	0.00102	16.51%
Se 196.026†	8.9	0.0023 mg/L	0.00134	0.0023 mg/L	0.00134	58.27%
Sn 189.927†	-35.9	-0.0042 mg/L	0.00061	-0.0042 mg/L	0.00061	14.52%
Ti 337.279†	129524.7	6.836 mg/L	0.1374	6.836 mg/L	0.1374	2.01%
Tl 351.924†	-1472.1	-0.0260 mg/L	0.00802	-0.0260 mg/L	0.00802	30.83%
V 290.880†	76739.2	0.3344 mg/L	0.02095	0.3344 mg/L	0.02095	6.27%

Zn 206.200†	53595.7	0.7307 mg/L	0.04203	0.7307 mg/L	0.04203	5.75%
Zr 343.823†	7115.6	0.0113 mg/L	0.00171	0.0113 mg/L	0.00171	15.11%

Sequence No.: 118

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/17/2024 10:23:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5187967.9	94.42	%	0.721				0.76%
Y radial	181244.7	94.33	%	0.752				0.80%
Ag 328.068†	657.3	0.0022	mg/L	0.00008	0.0022	mg/L	0.00008	3.78%
Al 396.153†	92.8	0.0240	mg/L	0.01326	0.0240	mg/L	0.01326	55.21%
As 188.979†	-11.3	-0.0033	mg/L	0.00143	-0.0033	mg/L	0.00143	43.32%
B 208.889†	-2392.7	-0.1276	mg/L	0.00024	-0.1276	mg/L	0.00024	0.19%
Ba 233.527†	-0.4	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	921.04%
Be 313.107†	-46.2	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	21.09%
Ca 317.933†	58.7	0.0084	mg/L	0.00363	0.0084	mg/L	0.00363	43.01%
Cd 228.802†	-5.4	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	260.91%
Co 228.616†	-12.1	-0.0001	mg/L	0.00009	-0.0001	mg/L	0.00009	69.89%
Cr 267.716†	-6.1	-0.0000	mg/L	0.00020	-0.0000	mg/L	0.00020	423.99%
Cu 327.393†	-1416.8	-0.0080	mg/L	0.00011	-0.0080	mg/L	0.00011	1.32%
Fe 238.204†	33.9	0.0143	mg/L	0.00571	0.0143	mg/L	0.00571	40.04%
K 766.490†	250.1	0.0756	mg/L	0.03216	0.0756	mg/L	0.03216	42.57%
Mg 285.213†	26.8	0.0031	mg/L	0.00086	0.0031	mg/L	0.00086	27.58%
Mn 257.610†	1.0	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	170.50%
Mo 202.031†	1.3	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	311.62%
Na 589.592†	141.3	0.0116	mg/L	0.00405	0.0116	mg/L	0.00405	34.83%
Ni 231.604†	15.6	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016	42.13%
Pb 220.353†	-4.1	-0.0003	mg/L	0.00039	-0.0003	mg/L	0.00039	125.08%
Sb 206.836†	8.2	0.0013	mg/L	0.00018	0.0013	mg/L	0.00018	14.12%
Se 196.026†	-2.5	-0.0012	mg/L	0.00276	-0.0012	mg/L	0.00276	225.32%
Sn 189.927†	2.1	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	26.98%
Ti 337.279†	40.1	0.0021	mg/L	0.00031	0.0021	mg/L	0.00031	14.57%
Tl 351.924†	124.3	0.0105	mg/L	0.00564	0.0105	mg/L	0.00564	53.89%
V 290.880†	159.1	0.0007	mg/L	0.00027	0.0007	mg/L	0.00027	37.44%
Zn 206.200†	-131.6	-0.0018	mg/L	0.00008	-0.0018	mg/L	0.00008	4.26%
Zr 343.823†	-137.2	-0.0003	mg/L	0.00020	-0.0003	mg/L	0.00020	65.30%

Sequence No.: 119

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 11

Date Collected: 4/17/2024 10:29:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4662670.7	84.86	%	0.839				0.99%
Y radial	170307.4	88.64	%	0.576				0.65%
Ag 328.068†	-1464.8	-0.0029	mg/L	0.00020	-0.0029	mg/L	0.00020	6.93%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	975417.8	252.4	mg/L	2.37	252.4	mg/L	2.37	0.94%
QC value within limits for Al 396.153 Recovery = 100.94%								
As 188.979†	-112.3	0.0000	mg/L	0.00196	0.0000	mg/L	0.00196	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	-2459.2	-0.1310	mg/L	0.00070	-0.1310	mg/L	0.00070	0.54%
QC value less than the lower limit for B 208.889 Recovery = Not calculated								
Ba 233.527†	1611.6	-0.0031	mg/L	0.00008	-0.0031	mg/L	0.00008	2.58%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-27.2	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	24.02%

QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	1642678.4	236.3 mg/L	2.62	236.3 mg/L	2.62	1.11%
QC value within limits for Ca 317.933	Recovery = 94.51%					
Cd 228.802†	-157.5	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	19.71%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	-76.6	-0.0008 mg/L	0.00014	-0.0008 mg/L	0.00014	17.82%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	290.3	0.0022 mg/L	0.00003	0.0022 mg/L	0.00003	1.47%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-2150.9	-0.0121 mg/L	0.00010	-0.0121 mg/L	0.00010	0.83%
QC value less than the lower limit for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	226163.5	95.21 mg/L	0.957	95.21 mg/L	0.957	1.00%
QC value within limits for Fe 238.204	Recovery = 95.21%					
K 766.490†	171.0	0.0517 mg/L	0.00633	0.0517 mg/L	0.00633	12.25%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1920051.8	223.4 mg/L	2.37	223.4 mg/L	2.37	1.06%
QC value within limits for Mg 285.213	Recovery = 89.38%					
Mn 257.610†	-84.7	0.0040 mg/L	0.00029	0.0040 mg/L	0.00029	7.10%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	-113.6	-0.0045 mg/L	0.00017	-0.0045 mg/L	0.00017	3.75%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	564.5	0.0464 mg/L	0.00147	0.0464 mg/L	0.00147	3.17%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	271.2	0.0068 mg/L	0.00023	0.0068 mg/L	0.00023	3.35%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-295.9	0.0046 mg/L	0.00174	0.0046 mg/L	0.00174	38.16%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	29.0	0.0086 mg/L	0.00139	0.0086 mg/L	0.00139	16.16%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	79.6	-0.0260 mg/L	0.00545	-0.0260 mg/L	0.00545	20.94%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-588.2	-0.0684 mg/L	0.00142	-0.0684 mg/L	0.00142	2.08%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	43.8	0.0023 mg/L	0.00038	0.0023 mg/L	0.00038	16.31%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-640.3	0.0079 mg/L	0.00199	0.0079 mg/L	0.00199	25.08%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	1640.4	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	37.95%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	98.1	-0.0053 mg/L	0.00013	-0.0053 mg/L	0.00013	2.48%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	1159.5	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	8.90%
QC Failed. Continue with analysis.						

Sequence No.: 120

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/17/2024 10:34:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4706621.7	85.66 %	0.933			1.09%
Y radial	169755.6	88.35 %	0.987			1.12%
Ag 328.068†	110368.9	0.3776 mg/L	0.00464	0.3776 mg/L	0.00464	1.23%
QC value within limits for Ag 328.068	Recovery = 94.40%					
Al 396.153†	960468.9	248.5 mg/L	1.70	248.5 mg/L	1.70	0.68%
QC value within limits for Al 396.153	Recovery = 99.40%					
As 188.979†	491.3	0.1754 mg/L	0.00070	0.1754 mg/L	0.00070	0.40%
QC value within limits for As 188.979	Recovery = 87.68%					
B 208.889†	-2484.3	-0.1323 mg/L	0.00038	-0.1323 mg/L	0.00038	0.29%
QC value less than the lower limit for B 208.889	Recovery = Not calculated					
Ba 233.527†	161935.8	0.9453 mg/L	0.00443	0.9453 mg/L	0.00443	0.47%
QC value within limits for Ba 233.527	Recovery = 94.53%					
Be 313.107†	409694.4	0.9234 mg/L	0.00414	0.9234 mg/L	0.00414	0.45%
QC value within limits for Be 313.107	Recovery = 92.34%					

Ca 317.933†	1634888.5	235.2 mg/L	1.17	235.2 mg/L	1.17	0.50%
QC value within limits for Ca 317.933	Recovery = 94.07%					
Cd 228.802†	221407.3	1.946 mg/L	0.0074	1.946 mg/L	0.0074	0.38%
QC value within limits for Cd 228.802	Recovery = 97.31%					
Co 228.616†	87984.3	0.8692 mg/L	0.00390	0.8692 mg/L	0.00390	0.45%
QC value within limits for Co 228.616	Recovery = 86.92%					
Cr 267.716†	120024.9	0.9186 mg/L	0.00425	0.9186 mg/L	0.00425	0.46%
QC value within limits for Cr 267.716	Recovery = 91.86%					
Cu 327.393†	163045.9	0.9167 mg/L	0.00173	0.9167 mg/L	0.00173	0.19%
QC value within limits for Cu 327.393	Recovery = 91.67%					
Fe 238.204†	220501.4	92.83 mg/L	0.472	92.83 mg/L	0.472	0.51%
QC value within limits for Fe 238.204	Recovery = 92.83%					
K 766.490†	211.1	0.0638 mg/L	0.00213	0.0638 mg/L	0.00213	3.35%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1891455.9	220.1 mg/L	1.11	220.1 mg/L	1.11	0.50%
QC value within limits for Mg 285.213	Recovery = 88.04%					
Mn 257.610†	22903.5	0.9238 mg/L	0.00943	0.9238 mg/L	0.00943	1.02%
QC value within limits for Mn 257.610	Recovery = 92.38%					
Mo 202.031†	-119.3	-0.0047 mg/L	0.00027	-0.0047 mg/L	0.00027	5.74%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	687.8	0.0566 mg/L	0.00272	0.0566 mg/L	0.00272	4.80%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	68476.0	1.718 mg/L	0.0084	1.718 mg/L	0.0084	0.49%
QC value within limits for Ni 231.604	Recovery = 85.92%					
Pb 220.353†	820.9	0.0931 mg/L	0.00054	0.0931 mg/L	0.00054	0.58%
QC value within limits for Pb 220.353	Recovery = 93.10%					
Sb 206.836†	6727.2	1.047 mg/L	0.0094	1.047 mg/L	0.0094	0.89%
QC value within limits for Sb 206.836	Recovery = 87.26%					
Se 196.026†	1035.7	0.4497 mg/L	0.00678	0.4497 mg/L	0.00678	1.51%
QC value within limits for Se 196.026	Recovery = 89.94%					
Sn 189.927†	-595.1	-0.0692 mg/L	0.00123	-0.0692 mg/L	0.00123	1.78%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	47.9	0.0025 mg/L	0.00012	0.0025 mg/L	0.00012	4.78%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	1791.6	0.2072 mg/L	0.00143	0.2072 mg/L	0.00143	0.69%
QC value within limits for Tl 351.924	Recovery = 103.58%					
V 290.880†	209048.5	0.9340 mg/L	0.00354	0.9340 mg/L	0.00354	0.38%
QC value within limits for V 290.880	Recovery = 93.40%					
Zn 206.200†	129067.7	1.789 mg/L	0.0103	1.789 mg/L	0.0103	0.58%
QC value within limits for Zn 206.200	Recovery = 89.43%					
Zr 343.823†	1168.7	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	19.85%
QC Failed. Continue with analysis.						

Sequence No.: 121

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 10:40:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4998094.0	90.96 %	0.330			0.36%
Y radial	186695.3	97.17 %	2.500			2.57%
Ag 328.068†	711185.5	2.375 mg/L	0.0134	2.375 mg/L	0.0134	0.56%
QC value within limits for Ag 328.068	Recovery = 94.99%					
Al 396.153†	36612.3	9.214 mg/L	0.2620	9.214 mg/L	0.2620	2.84%
QC value within limits for Al 396.153	Recovery = 92.14%					
As 188.979†	15951.4	4.766 mg/L	0.0278	4.766 mg/L	0.0278	0.58%
QC value within limits for As 188.979	Recovery = 95.32%					
B 208.889†	86544.8	4.373 mg/L	0.0244	4.373 mg/L	0.0244	0.56%
QC value less than the lower limit for B 208.889	Recovery = 87.47%					
Ba 233.527†	833802.0	4.932 mg/L	0.0236	4.932 mg/L	0.0236	0.48%
QC value within limits for Ba 233.527	Recovery = 98.64%					
Be 313.107†	1984320.3	4.471 mg/L	0.1557	4.471 mg/L	0.1557	3.48%
QC value less than the lower limit for Be 313.107	Recovery = 89.43%					
Ca 317.933†	64254.1	9.242 mg/L	0.2803	9.242 mg/L	0.2803	3.03%

QC value within limits for Ca 317.933	Recovery = 92.42%				
Cd 228.802†	568569.1	4.906 mg/L	0.0229	4.906 mg/L	0.0229 0.47%
QC value within limits for Cd 228.802	Recovery = 98.12%				
Co 228.616†	496288.2	4.911 mg/L	0.0272	4.911 mg/L	0.0272 0.55%
QC value within limits for Co 228.616	Recovery = 98.23%				
Cr 267.716†	641362.6	4.908 mg/L	0.0235	4.908 mg/L	0.0235 0.48%
QC value within limits for Cr 267.716	Recovery = 98.16%				
Cu 327.393†	831543.1	4.692 mg/L	0.0233	4.692 mg/L	0.0233 0.50%
QC value within limits for Cu 327.393	Recovery = 93.85%				
Fe 238.204†	10969.7	4.644 mg/L	0.1429	4.644 mg/L	0.1429 3.08%
QC value within limits for Fe 238.204	Recovery = 92.88%				
K 766.490†	30320.5	9.159 mg/L	0.2695	9.159 mg/L	0.2695 2.94%
QC value within limits for K 766.490	Recovery = 91.59%				
Mg 285.213†	78613.1	9.124 mg/L	0.2691	9.124 mg/L	0.2691 2.95%
QC value within limits for Mg 285.213	Recovery = 91.24%				
Mn 257.610†	115999.3	4.642 mg/L	0.1437	4.642 mg/L	0.1437 3.10%
QC value within limits for Mn 257.610	Recovery = 92.85%				
Mo 202.031†	122041.0	4.847 mg/L	0.0293	4.847 mg/L	0.0293 0.60%
QC value within limits for Mo 202.031	Recovery = 96.94%				
Na 589.592†	103365.9	8.501 mg/L	0.3082	8.501 mg/L	0.3082 3.63%
QC value less than the lower limit for Na 589.592	Recovery = 85.01%				
Ni 231.604†	195456.7	4.904 mg/L	0.0197	4.904 mg/L	0.0197 0.40%
QC value within limits for Ni 231.604	Recovery = 98.08%				
Pb 220.353†	61372.8	4.935 mg/L	0.0326	4.935 mg/L	0.0326 0.66%
QC value within limits for Pb 220.353	Recovery = 98.70%				
Sb 206.836†	30443.0	4.752 mg/L	0.0317	4.752 mg/L	0.0317 0.67%
QC value within limits for Sb 206.836	Recovery = 95.04%				
Se 196.026†	9563.2	4.754 mg/L	0.0445	4.754 mg/L	0.0445 0.94%
QC value within limits for Se 196.026	Recovery = 95.09%				
Sn 189.927†	42306.4	4.911 mg/L	0.0241	4.911 mg/L	0.0241 0.49%
QC value within limits for Sn 189.927	Recovery = 98.23%				
Ti 337.279†	86217.2	4.547 mg/L	0.1396	4.547 mg/L	0.1396 3.07%
QC value within limits for Ti 337.279	Recovery = 90.95%				
Tl 351.924†	28660.7	2.374 mg/L	0.0213	2.374 mg/L	0.0213 0.90%
QC value within limits for Tl 351.924	Recovery = 94.97%				
V 290.880†	1083767.3	4.877 mg/L	0.0267	4.877 mg/L	0.0267 0.55%
QC value within limits for V 290.880	Recovery = 97.54%				
Zn 206.200†	362066.5	5.046 mg/L	0.0256	5.046 mg/L	0.0256 0.51%
QC value within limits for Zn 206.200	Recovery = 100.92%				
Zr 343.823†	2162376.1	4.803 mg/L	0.0223	4.803 mg/L	0.0223 0.46%
QC Failed. Retry.					

Sequence No.: 122

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/17/2024 10:41:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5000649.2	91.01 %	0.584			0.64%
Y radial	178370.6	92.83 %	1.538			1.66%
Ag 328.068†	711326.9	2.375 mg/L	0.0194	2.375 mg/L	0.0194	0.82%
QC value within limits for Ag 328.068	Recovery = 95.01%					
Al 396.153†	37622.1	9.476 mg/L	0.0295	9.476 mg/L	0.0295	0.31%
QC value within limits for Al 396.153	Recovery = 94.76%					
As 188.979†	15922.9	4.759 mg/L	0.0213	4.759 mg/L	0.0213	0.45%
QC value within limits for As 188.979	Recovery = 95.18%					
B 208.889†	86252.6	4.358 mg/L	0.0198	4.358 mg/L	0.0198	0.46%
QC value less than the lower limit for B 208.889	Recovery = 87.16%					
Ba 233.527†	829135.6	4.904 mg/L	0.0102	4.904 mg/L	0.0102	0.21%
QC value within limits for Ba 233.527	Recovery = 98.08%					
Be 313.107†	2071657.3	4.669 mg/L	0.0150	4.669 mg/L	0.0150	0.32%
QC value within limits for Be 313.107	Recovery = 93.39%					
Ca 317.933†	65974.0	9.490 mg/L	0.0413	9.490 mg/L	0.0413	0.43%
QC value within limits for Ca 317.933	Recovery = 94.90%					

Cd 228.802†	565646.4	4.880 mg/L	0.0142	4.880 mg/L	0.0142	0.29%
QC value within limits for Cd 228.802			Recovery = 97.61%			
Co 228.616†	493624.1	4.885 mg/L	0.0072	4.885 mg/L	0.0072	0.15%
QC value within limits for Co 228.616			Recovery = 97.69%			
Cr 267.716†	637099.3	4.875 mg/L	0.0085	4.875 mg/L	0.0085	0.18%
QC value within limits for Cr 267.716			Recovery = 97.51%			
Cu 327.393†	825557.7	4.659 mg/L	0.0259	4.659 mg/L	0.0259	0.56%
QC value within limits for Cu 327.393			Recovery = 93.17%			
Fe 238.204†	11301.6	4.783 mg/L	0.0166	4.783 mg/L	0.0166	0.35%
QC value within limits for Fe 238.204			Recovery = 95.67%			
K 766.490†	31043.3	9.377 mg/L	0.0282	9.377 mg/L	0.0282	0.30%
QC value within limits for K 766.490			Recovery = 93.77%			
Mg 285.213†	80789.6	9.378 mg/L	0.0130	9.378 mg/L	0.0130	0.14%
QC value within limits for Mg 285.213			Recovery = 93.78%			
Mn 257.610†	119675.9	4.790 mg/L	0.0136	4.790 mg/L	0.0136	0.28%
QC value within limits for Mn 257.610			Recovery = 95.79%			
Mo 202.031†	122075.7	4.848 mg/L	0.0152	4.848 mg/L	0.0152	0.31%
QC value within limits for Mo 202.031			Recovery = 96.97%			
Na 589.592†	107501.6	8.841 mg/L	0.0197	8.841 mg/L	0.0197	0.22%
QC value less than the lower limit for Na 589.592			Recovery = 88.41%			
Ni 231.604†	194216.3	4.873 mg/L	0.0105	4.873 mg/L	0.0105	0.22%
QC value within limits for Ni 231.604			Recovery = 97.46%			
Pb 220.353†	61419.3	4.939 mg/L	0.0179	4.939 mg/L	0.0179	0.36%
QC value within limits for Pb 220.353			Recovery = 98.77%			
Sb 206.836†	30319.1	4.733 mg/L	0.0220	4.733 mg/L	0.0220	0.47%
QC value within limits for Sb 206.836			Recovery = 94.66%			
Se 196.026†	9545.7	4.745 mg/L	0.0472	4.745 mg/L	0.0472	0.99%
QC value within limits for Se 196.026			Recovery = 94.91%			
Sn 189.927†	42266.2	4.907 mg/L	0.0148	4.907 mg/L	0.0148	0.30%
QC value within limits for Sn 189.927			Recovery = 98.13%			
Ti 337.279†	88493.7	4.668 mg/L	0.0102	4.668 mg/L	0.0102	0.22%
QC value within limits for Ti 337.279			Recovery = 93.35%			
Tl 351.924†	28643.2	2.373 mg/L	0.0106	2.373 mg/L	0.0106	0.45%
QC value within limits for Tl 351.924			Recovery = 94.90%			
V 290.880†	1077277.2	4.848 mg/L	0.0147	4.848 mg/L	0.0147	0.30%
QC value within limits for V 290.880			Recovery = 96.95%			
Zn 206.200†	360310.7	5.021 mg/L	0.0102	5.021 mg/L	0.0102	0.20%
QC value within limits for Zn 206.200			Recovery = 100.42%			
Zr 343.823†	2146848.7	4.768 mg/L	0.0197	4.768 mg/L	0.0197	0.41%
QC Failed. Continue with analysis.						

Sequence No.: 123

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/17/2024 10:47:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5376150.5	97.84 %	0.940			0.96%
Y radial	186457.8	97.04 %	1.203			1.24%
Ag 328.068†	1063.1	0.0036 mg/L	0.00055	0.0036 mg/L	0.00055	15.45%
QC value within limits for Ag 328.068			Recovery = Not calculated			
Al 396.153†	24.2	0.0062 mg/L	0.00526	0.0062 mg/L	0.00526	84.71%
QC value within limits for Al 396.153			Recovery = Not calculated			
As 188.979†	-15.2	-0.0045 mg/L	0.00192	-0.0045 mg/L	0.00192	42.64%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	-2294.3	-0.1225 mg/L	0.00038	-0.1225 mg/L	0.00038	0.31%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	3.6	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	268.66%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	-25.3	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	74.93%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	50.8	0.0073 mg/L	0.00212	0.0073 mg/L	0.00212	29.05%
QC value within limits for Ca 317.933			Recovery = Not calculated			
Cd 228.802†	-11.2	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	>999.9%

QC value within limits for Cd 228.802	Recovery = Not calculated		
Co 228.616†	-3.4 -0.0000 mg/L	0.00004 -0.0000 mg/L	0.00004 118.99%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-10.9 -0.0001 mg/L	0.00008 -0.0001 mg/L	0.00008 90.15%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 327.393†	-1040.3 -0.0058 mg/L	0.00010 -0.0058 mg/L	0.00010 1.77%
QC value within limits for Cu 327.393	Recovery = Not calculated		
Fe 238.204†	4.8 0.0020 mg/L	0.00134 0.0020 mg/L	0.00134 65.93%
QC value within limits for Fe 238.204	Recovery = Not calculated		
K 766.490†	144.6 0.0437 mg/L	0.01517 0.0437 mg/L	0.01517 34.73%
QC value within limits for K 766.490	Recovery = Not calculated		
Mg 285.213†	11.8 0.0014 mg/L	0.00053 0.0014 mg/L	0.00053 38.64%
QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610†	-3.7 -0.0001 mg/L	0.00018 -0.0001 mg/L	0.00018 124.04%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	33.1 0.0013 mg/L	0.00035 0.0013 mg/L	0.00035 26.74%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592†	111.9 0.0092 mg/L	0.00613 0.0092 mg/L	0.00613 66.62%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604†	1.4 0.0000 mg/L	0.00003 0.0000 mg/L	0.00003 85.74%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353†	16.6 0.0013 mg/L	0.00064 0.0013 mg/L	0.00064 47.32%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836†	10.1 0.0016 mg/L	0.00010 0.0016 mg/L	0.00010 6.33%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	7.3 0.0036 mg/L	0.00158 0.0036 mg/L	0.00158 43.67%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927†	5.1 0.0006 mg/L	0.00051 0.0006 mg/L	0.00051 84.59%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279†	19.8 0.0010 mg/L	0.00052 0.0010 mg/L	0.00052 50.07%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924†	97.3 0.0082 mg/L	0.00160 0.0082 mg/L	0.00160 19.55%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880†	-66.3 -0.0003 mg/L	0.00014 -0.0003 mg/L	0.00014 45.42%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200†	11.8 0.0001 mg/L	0.00017 0.0001 mg/L	0.00017 119.10%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823†	-62.3 -0.0001 mg/L	0.00014 -0.0001 mg/L	0.00014 98.59%

All analyte(s) passed QC.

S103416

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103416-CAL1	QC		1		23J0970	24D0241	
S103416-CAL2	QC		2		23J0971	24D0241	
S103416-CAL3	QC		3		24D0039	24D0241	
S103416-CAL4	QC		4		24D0038	24D0241	
S103416-CAL5	QC		5		24D0037	24D0241	
S103416-CAL6	QC		6		24D0029	24D0241	
S103416-CAL7	QC		7		24D0035	24D0241	
S103416-CAL8	QC		8		23J0977	24D0241	
S103416-ICV1	QC		9		23K0257	24D0241	
S103416-ICB1	QC		10		23J0970	24D0241	
S103416-LCV1	QC		11		23J0971	24D0241	
S103416-CCV1	QC		12		24D0029	24D0241	
S103416-IFA1	QC		13		24C0959	24D0241	
S103416-IFB1	QC		14		24D0240	24D0241	
S103416-LCV2	QC		15		23L0532	24D0241	
S103416-HCV1	QC		16		24D0030	24D0241	
S103416-HCV2	QC		17		24C0960	24D0241	

Samples Loaded By

Date

Data Processed By

Date

=====

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	91173.4
-1.6	15.0	145344.0
-1.2	15.0	193960.2
-0.8	15.0	227863.1
-0.4	15.0	271033.9
0.0	15.0	285579.6
0.4	15.0	255710.4
0.8	15.0	228246.3
1.2	15.0	194297.4
1.6	15.0	150770.0
0.0	10.0	542.9
0.0	10.5	2655.1
0.0	11.0	7241.9
0.0	11.5	18098.1
0.0	12.0	32514.8
0.0	12.5	83856.8
0.0	13.0	114995.3
0.0	13.5	157029.7
0.0	14.0	204062.6
0.0	14.5	269695.6
0.0	15.0	280617.7
0.0	15.5	267788.6
0.0	16.0	242706.0
0.0	16.5	148133.7
0.0	17.0	113956.6
0.0	17.5	78785.4
0.0	18.0	52464.5
0.0	18.5	18400.1
0.0	19.0	9500.8
0.0	19.5	2858.8
-0.8	15.0	238297.9
-0.4	15.0	273289.9
0.0	15.0	275586.3
0.4	15.0	274318.1
0.0	13.0	113151.7
0.0	13.5	147894.6
0.0	14.0	196530.0
0.0	14.5	261085.0
0.0	15.0	280638.6
0.0	15.5	270999.7
0.0	16.0	245376.9
0.0	16.5	154769.4

4/18/2024 8:44:14 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 280638.6 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 280638.6 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	4593.8
-6.5	15.0	5193.8
-6.0	15.0	5393.8
-5.5	15.0	5946.1
-5.0	15.0	7207.7
-4.5	15.0	9552.8
-4.0	15.0	13392.3
-3.5	15.0	18542.4
-3.0	15.0	27388.7
-2.5	15.0	37625.8
-2.0	15.0	57710.7
-1.5	15.0	123862.6
-1.0	15.0	183754.8
-0.5	15.0	209645.4
0.0	15.0	227267.5
0.5	15.0	211767.2
1.0	15.0	165025.6

1.5	15.0	98889.2
2.0	15.0	40579.7
2.5	15.0	36199.7
3.0	15.0	27748.1
3.5	15.0	16868.1
4.0	15.0	9366.3
4.5	15.0	4404.5
5.0	15.0	2572.8
5.5	15.0	2162.8
6.0	15.0	1641.0
6.5	15.0	1047.7

4/18/2024 8:48:07 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 227267.5 for Radial viewing

Analysis Begun

Start Time: 4/18/2024 9:05:52 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 1

Sample ID: Cal Blank@ 23J0970

Date Collected: 4/18/2024 9:05:53 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153405.6	4208.46	2.74%	100	%
Y axial	2037256.4	7867.45	0.39%	100	%
Ag 328.068†	60.1	35.31	58.71%	[0.00]	mg/L
Al 396.153†	3.6	66.29	>999.9%	[0.00]	mg/L
As 188.979†	-50.1	2.69	5.36%	[0.00]	mg/L
B 208.889†	165.4	6.21	3.76%	[0.00]	mg/L
Ba 233.527†	-20.2	4.75	23.46%	[0.00]	mg/L
Be 313.107†	73.3	0.32	0.44%	[0.00]	mg/L
Ca 317.933†	873.2	23.86	2.73%	[0.00]	mg/L
Cd 228.802†	160.8	2.92	1.81%	[0.00]	mg/L
Co 228.616†	92.2	3.87	4.19%	[0.00]	mg/L
Cr 267.716†	48.6	7.60	15.64%	[0.00]	mg/L
Cu 327.393†	1054.4	44.54	4.22%	[0.00]	mg/L
Fe 238.204†	-77.2	3.09	4.01%	[0.00]	mg/L
K 766.490†	1023.3	22.21	2.17%	[0.00]	mg/L
Mg 285.213†	236.0	8.37	3.55%	[0.00]	mg/L
Mn 257.610†	-330.6	10.39	3.14%	[0.00]	mg/L
Mo 202.031†	130.1	2.23	1.72%	[0.00]	mg/L
Na 589.592†	289.9	60.14	20.75%	[0.00]	mg/L
Ni 231.604†	434.6	6.97	1.60%	[0.00]	mg/L
Pb 220.353†	-2.7	1.68	61.73%	[0.00]	mg/L
Sb 206.836†	74.3	5.93	7.97%	[0.00]	mg/L
Se 196.026†	5.6	1.60	28.48%	[0.00]	mg/L
Sn 189.927†	-61.9	3.45	5.58%	[0.00]	mg/L
Ti 337.279†	-202.9	45.86	22.61%	[0.00]	mg/L
Tl 351.924†	-29.5	78.87	267.28%	[0.00]	mg/L
V 290.880†	948.6	6.73	0.71%	[0.00]	mg/L
Zn 206.200†	-197.7	0.86	0.44%	[0.00]	mg/L
Zr 343.823†	108.8	58.94	54.15%	[0.00]	mg/L

User canceled analysis.

=====
Analysis Begun

Start Time: 4/18/2024 9:11:50 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====
Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 1

Sample ID: Cal Blank@ 23J0970

Date Collected: 4/18/2024 9:12:00 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	155289.1	3058.58	1.97%	101	%
Y axial	2047562.9	23327.66	1.14%	101	%
Ag 328.068†	79.4	19.08	24.05%	[0.00]	mg/L
Al 396.153†	38.8	13.59	35.00%	[0.00]	mg/L
As 188.979†	-54.5	3.27	6.00%	[0.00]	mg/L
B 208.889†	162.1	2.68	1.65%	[0.00]	mg/L
Ba 233.527†	-24.9	5.47	21.99%	[0.00]	mg/L
Be 313.107†	87.9	13.61	15.48%	[0.00]	mg/L
Ca 317.933†	852.4	30.42	3.57%	[0.00]	mg/L
Cd 228.802†	162.0	2.04	1.26%	[0.00]	mg/L
Co 228.616†	105.2	11.34	10.79%	[0.00]	mg/L
Cr 267.716†	45.5	4.87	10.70%	[0.00]	mg/L
Cu 327.393†	1126.1	78.15	6.94%	[0.00]	mg/L
Fe 238.204†	-77.6	2.55	3.29%	[0.00]	mg/L
K 766.490†	958.1	99.64	10.40%	[0.00]	mg/L
Mg 285.213†	233.4	12.16	5.21%	[0.00]	mg/L
Mn 257.610†	-333.2	9.32	2.80%	[0.00]	mg/L
Mo 202.031†	129.0	4.13	3.20%	[0.00]	mg/L
Na 589.592†	349.4	22.61	6.47%	[0.00]	mg/L
Ni 231.604†	436.3	12.64	2.90%	[0.00]	mg/L
Pb 220.353†	-9.2	4.55	49.35%	[0.00]	mg/L
Sb 206.836†	77.5	6.61	8.52%	[0.00]	mg/L
Se 196.026†	5.3	2.21	41.92%	[0.00]	mg/L
Sn 189.927†	-61.0	7.66	12.57%	[0.00]	mg/L
Ti 337.279†	-235.9	12.93	5.48%	[0.00]	mg/L
Tl 351.924†	-16.3	40.81	249.89%	[0.00]	mg/L
V 290.880†	940.0	12.05	1.28%	[0.00]	mg/L
Zn 206.200†	-199.2	0.42	0.21%	[0.00]	mg/L
Zr 343.823†	75.3	70.58	93.77%	[0.00]	mg/L

=====
Batch ID: OPTIMA 3

Sequence No.: 2

Autosampler Location: 2

Sample ID: SEQ-CAL1@ 23J0971

Date Collected: 4/18/2024 9:17:56 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 110

Mean Data: SEQ-CAL1@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units

Y radial	154591.4	1504.22	0.97%	101	%
Y axial	2043138.1	9756.94	0.48%	100	%
Ag 328.068†	536.9	29.93	5.57%	[0.01]	mg/L
Al 396.153†	161.8	41.27	25.50%	[0.05]	mg/L
As 188.979†	12.5	5.01	40.26%	[0.01]	mg/L
B 208.889†	658.2	6.21	0.94%	[0.1]	mg/L
Ba 233.527†	179.8	0.68	0.38%	[0.05]	mg/L
Be 313.107†	1109.1	22.35	2.02%	[0.004]	mg/L
Ca 317.933†	2935.9	35.86	1.22%	[0.5]	mg/L
Cd 228.802†	114.7	0.70	0.61%	[0.004]	mg/L
Co 228.616†	288.4	4.63	1.61%	[0.01]	mg/L
Cr 267.716†	488.3	2.47	0.51%	[0.01]	mg/L
Cu 327.393†	1073.9	50.50	4.70%	[0.01]	mg/L
Fe 238.204†	177.9	1.32	0.74%	[0.05]	mg/L
Mg 285.213†	557.2	14.66	2.63%	[0.05]	mg/L
Mn 257.610†	233.6	6.39	2.74%	[0.01]	mg/L
Mo 202.031†	732.6	7.53	1.03%	[0.05]	mg/L
Ni 231.604†	249.2	8.92	3.58%	[0.01]	mg/L
Pb 220.353†	39.9	12.28	30.77%	[0.01]	mg/L
Sb 206.836†	73.1	3.46	4.73%	[0.05]	mg/L
Se 196.026†	71.9	2.78	3.86%	[0.05]	mg/L
Sn 189.927†	431.8	2.19	0.51%	[0.1]	mg/L
Ti 337.279†	373.8	9.74	2.61%	[0.02]	mg/L
Tl 351.924†	162.8	3.66	2.25%	[0.05]	mg/L
V 290.880†	533.8	22.21	4.16%	[0.01]	mg/L
Zn 206.200†	202.3	5.77	2.85%	[0.01]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 3

Sample ID: SEQ-CAL2@ 23J0972

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 3

Date Collected: 4/18/2024 9:25:42 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL2@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153050.4	418.28	0.27%	99.8	%
Y axial	2023051.1	11340.35	0.56%	99.3	%
Ag 328.068†	3980.9	30.37	0.76%	[0.0625]	mg/L
Al 396.153†	948.0	16.99	1.79%	[0.25]	mg/L
As 188.979†	147.0	2.96	2.01%	[0.125]	mg/L
B 208.889†	846.7	5.22	0.62%	[0.125]	mg/L
Ba 233.527†	434.2	1.28	0.29%	[0.125]	mg/L
Be 313.107†	34294.3	218.18	0.64%	[0.125]	mg/L
Cd 228.802†	3659.6	13.63	0.37%	[0.125]	mg/L
Co 228.616†	3607.8	30.04	0.83%	[0.125]	mg/L
Cr 267.716†	6034.5	67.77	1.12%	[0.125]	mg/L
Cu 327.393†	12205.2	162.23	1.33%	[0.125]	mg/L
Fe 238.204†	433.9	5.16	1.19%	[0.125]	mg/L
Mg 285.213†	2759.8	17.27	0.63%	[0.25]	mg/L
Mn 257.610†	2919.3	26.89	0.92%	[0.125]	mg/L
Mo 202.031†	1851.3	10.59	0.57%	[0.125]	mg/L
Ni 231.604†	3065.9	21.64	0.71%	[0.125]	mg/L
Pb 220.353†	467.9	5.48	1.17%	[0.125]	mg/L
Sb 206.836†	240.7	2.17	0.90%	[0.125]	mg/L
Se 196.026†	196.9	1.99	1.01%	[0.125]	mg/L
Sn 189.927†	556.1	1.89	0.34%	[0.125]	mg/L
Ti 337.279†	2339.1	16.44	0.70%	[0.125]	mg/L
Tl 351.924†	177.4	18.67	10.52%	[0.0625]	mg/L
V 290.880†	7863.8	85.42	1.09%	[0.125]	mg/L
Zn 206.200†	2415.9	12.11	0.50%	[0.125]	mg/L
Zr 343.823†	21449.0	203.73	0.95%	[0.125]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 4

Autosampler Location: 4

Sample ID: SEQ-CAL3@ 23J0973

Date Collected: 4/18/2024 9:33:29 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: SEQ-CAL3@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153743.8	4976.69	3.24%	100	%
Y axial	2020453.5	18704.41	0.93%	99.2	%
Ag 328.068†	16266.7	508.78	3.13%	[0.25]	mg/L
Al 396.153†	3876.1	142.77	3.68%	[1]	mg/L
As 188.979†	574.1	6.59	1.15%	[0.5]	mg/L
B 208.889†	3443.0	26.43	0.77%	[0.5]	mg/L
Ba 233.527†	1722.8	25.24	1.46%	[0.5]	mg/L
Be 313.107†	137792.9	603.92	0.44%	[0.5]	mg/L
Cd 228.802†	14728.7	130.60	0.89%	[0.5]	mg/L
Co 228.616†	14539.5	434.08	2.99%	[0.5]	mg/L
Cr 267.716†	24219.1	757.50	3.13%	[0.5]	mg/L
Cu 327.393†	50499.3	1252.97	2.48%	[0.5]	mg/L
Fe 238.204†	1733.6	52.12	3.01%	[0.5]	mg/L
Mg 285.213†	10969.8	371.04	3.38%	[1]	mg/L
Mn 257.610†	11658.9	358.02	3.07%	[0.5]	mg/L
Mo 202.031†	7399.6	70.69	0.96%	[0.5]	mg/L
Ni 231.604†	12373.6	327.19	2.64%	[0.5]	mg/L
Pb 220.353†	1857.7	18.59	1.00%	[0.5]	mg/L
Sb 206.836†	957.0	3.62	0.38%	[0.5]	mg/L
Se 196.026†	807.6	11.57	1.43%	[0.5]	mg/L
Sn 189.927†	2228.1	9.71	0.44%	[0.5]	mg/L
Ti 337.279†	9377.3	309.35	3.30%	[0.5]	mg/L
Tl 351.924†	824.4	20.72	2.51%	[0.25]	mg/L
V 290.880†	31591.8	943.19	2.99%	[0.5]	mg/L
Zn 206.200†	9819.8	64.04	0.65%	[0.5]	mg/L
Zr 343.823†	86958.9	2017.53	2.32%	[0.5]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 5

Autosampler Location: 5

Sample ID: SEQ-CAL4@ 23J0974

Date Collected: 4/18/2024 9:41:18 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: SEQ-CAL4@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	152392.5	742.43	0.49%	99.3	%
Y axial	2022628.4	21151.05	1.05%	99.3	%
Ag 328.068†	31244.3	427.75	1.37%	[0.5]	mg/L
Al 396.153†	7787.9	65.69	0.84%	[2]	mg/L
As 188.979†	1117.5	12.97	1.16%	[1]	mg/L
B 208.889†	6649.0	88.17	1.33%	[1]	mg/L
Ba 233.527†	3440.3	34.17	0.99%	[1]	mg/L
Be 313.107†	277134.8	651.73	0.24%	[1]	mg/L
Ca 317.933†	11871.0	64.02	0.54%	[2]	mg/L
Cd 228.802†	28704.4	642.32	2.24%	[1]	mg/L
Co 228.616†	28407.9	638.20	2.25%	[1]	mg/L
Cr 267.716†	47391.5	1048.90	2.21%	[1]	mg/L
Cu 327.393†	99878.1	2272.20	2.27%	[1]	mg/L
Fe 238.204†	3490.5	24.80	0.71%	[1]	mg/L
K 766.490†	4172.8	64.10	1.54%	[2]	mg/L
Mg 285.213†	22026.3	130.80	0.59%	[2]	mg/L
Mn 257.610†	23549.8	129.34	0.55%	[1]	mg/L
Mo 202.031†	14005.1	358.98	2.56%	[1]	mg/L
Na 589.592†	19237.4	116.11	0.60%	[2]	mg/L
Ni 231.604†	24254.0	585.65	2.41%	[1]	mg/L

Pb 220.353†	3649.0	28.33	0.78%	[1]	mg/L
Sb 206.836†	1847.0	20.47	1.11%	[1]	mg/L
Se 196.026†	1586.9	16.34	1.03%	[1]	mg/L
Sn 189.927†	4253.7	48.44	1.14%	[1]	mg/L
Ti 337.279†	18325.7	116.23	0.63%	[1]	mg/L
Tl 351.924†	1674.9	21.61	1.29%	[0.5]	mg/L
V 290.880†	62124.8	1345.00	2.16%	[1]	mg/L
Zn 206.200†	19079.3	497.90	2.61%	[1]	mg/L
Zr 343.823†	166442.6	3640.25	2.19%	[1]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 6

Sample ID: SEQ-CAL5@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 6

Date Collected: 4/18/2024 9:49:05 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL5@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	150293.3	2622.94	1.75%	98.0	%
Y axial	1961854.7	3864.62	0.20%	96.3	%
Ag 328.068†	136686.1	2120.07	1.55%	[2.5]	mg/L
Al 396.153†	37706.9	48.68	0.13%	[10]	mg/L
As 188.979†	5608.4	55.72	0.99%	[5]	mg/L
B 208.889†	34189.4	342.74	1.00%	[5]	mg/L
Ba 233.527†	16900.7	316.69	1.87%	[5]	mg/L
Be 313.107†	1354902.1	29776.62	2.20%	[5]	mg/L
Ca 317.933†	56787.1	120.12	0.21%	[10]	mg/L
Cd 228.802†	143605.4	434.97	0.30%	[5]	mg/L
Co 228.616†	140651.7	428.60	0.30%	[5]	mg/L
Cr 267.716†	236066.9	565.30	0.24%	[5]	mg/L
Cu 327.393†	503763.3	471.34	0.09%	[5]	mg/L
Fe 238.204†	16684.6	7.15	0.04%	[5]	mg/L
K 766.490†	19961.3	25.50	0.13%	[10]	mg/L
Mg 285.213†	106123.1	33.86	0.03%	[10]	mg/L
Mn 257.610†	113518.1	146.42	0.13%	[5]	mg/L
Mo 202.031†	71769.6	139.63	0.19%	[5]	mg/L
Na 589.592†	93066.2	224.44	0.24%	[10]	mg/L
Ni 231.604†	119680.6	21.04	0.02%	[5]	mg/L
Pb 220.353†	17880.7	161.61	0.90%	[5]	mg/L
Sb 206.836†	9453.3	103.47	1.09%	[5]	mg/L
Se 196.026†	7915.8	82.61	1.04%	[5]	mg/L
Sn 189.927†	21615.8	215.47	1.00%	[5]	mg/L
Ti 337.279†	91562.0	234.36	0.26%	[5]	mg/L
Tl 351.924†	8517.0	67.17	0.79%	[2.5]	mg/L
V 290.880†	311966.4	335.66	0.11%	[5]	mg/L
Zn 206.200†	95169.8	146.60	0.15%	[5]	mg/L
Zr 343.823†	860087.7	1816.92	0.21%	[5]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 7

Sample ID: SEQ-CAL6@ 23J0976

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 7

Date Collected: 4/18/2024 9:55:52 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL6@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151779.8	888.78	0.59%	98.9	%
Y axial	1947801.7	5121.37	0.26%	95.6	%
Ag 328.068†	243024.2	3619.79	1.49%	[5]	mg/L
Al 396.153†	76291.9	681.81	0.89%	[20]	mg/L

As 188.979†	11522.9	230.49	2.00%	[10]	mg/L
B 208.889†	69288.7	1239.16	1.79%	[10]	mg/L
Ba 233.527†	34642.5	275.37	0.79%	[10]	mg/L
Be 313.107†	2724246.1	26622.91	0.98%	[10]	mg/L
Ca 317.933†	114860.7	943.37	0.82%	[20]	mg/L
Cd 228.802†	285723.3	951.13	0.33%	[10]	mg/L
Co 228.616†	278812.8	756.02	0.27%	[10]	mg/L
Cr 267.716†	470935.5	1391.57	0.30%	[10]	mg/L
Cu 327.393†	1017294.4	3996.45	0.39%	[10]	mg/L
Fe 238.204†	33491.7	358.35	1.07%	[10]	mg/L
K 766.490†	40338.6	355.01	0.88%	[20]	mg/L
Mg 285.213†	213584.9	1848.01	0.87%	[20]	mg/L
Mn 257.610†	228305.5	1893.03	0.83%	[10]	mg/L
Mo 202.031†	143538.3	395.61	0.28%	[10]	mg/L
Na 589.592†	190891.2	1928.55	1.01%	[20]	mg/L
Ni 231.604†	237318.1	1078.29	0.45%	[10]	mg/L
Pb 220.353†	36151.7	700.37	1.94%	[10]	mg/L
Sb 206.836†	19351.1	390.37	2.02%	[10]	mg/L
Se 196.026†	16150.5	386.19	2.39%	[10]	mg/L
Sn 189.927†	43687.9	754.40	1.73%	[10]	mg/L
Ti 337.279†	184641.9	1599.12	0.87%	[10]	mg/L
Tl 351.924†	16934.2	277.75	1.64%	[5]	mg/L
V 290.880†	626187.4	1850.00	0.30%	[10]	mg/L
Zn 206.200†	188923.6	568.59	0.30%	[10]	mg/L
Zr 343.823†	1726082.3	3960.80	0.23%	[10]	mg/L

Batch ID: OPTIMA 3

Sequence No.: 8

Sample ID: SEQ-CAL7@ 23J0977

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 8

Date Collected: 4/18/2024 10:01:45 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL7@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151379.8	377.34	0.25%	98.7	%
Y axial	1954907.5	26692.23	1.37%	96.0	%
Al 396.153†	185025.4	166.13	0.09%	[50]	mg/L
Ca 317.933†	287794.1	683.73	0.24%	[50]	mg/L
Fe 238.204†	85002.2	242.93	0.29%	[25]	mg/L
K 766.490†	99714.6	230.17	0.23%	[50]	mg/L
Mg 285.213†	525740.8	793.43	0.15%	[50]	mg/L
Na 589.592†	466471.0	2164.08	0.46%	[50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	49950	0.00000	0.998486	
Al 396.153	7	Lin Thru 0	0.0	3718	0.00000	0.999941	
As 188.979	6	Lin Thru 0	0.0	1146	0.00000	0.999941	
B 208.889	6	Lin Thru 0	0.0	6909	0.00000	0.999981	
Ba 233.527	6	Lin Thru 0	0.0	3447	0.00000	0.999953	
Be 313.107	6	Lin Thru 0	0.0	272200	0.00000	0.999996	
Ca 317.933	5	Lin Thru 0	0.0	5752	0.00000	0.999996	
Cd 228.802	6	Lin Thru 0	0.0	28600	0.00000	0.999997	
Co 228.616	6	Lin Thru 0	0.0	27940	0.00000	0.999991	
Cr 267.716	6	Lin Thru 0	0.0	47120	0.00000	0.999999	
Cu 327.393	6	Lin Thru 0	0.0	101500	0.00000	0.999992	
Fe 238.204	7	Lin Thru 0	0.0	3391	0.00000	0.999982	
K 766.490	4	Lin Thru 0	0.0	1997	0.00000	0.999991	
Mg 285.213	7	Lin Thru 0	0.0	10540	0.00000	0.999984	
Mn 257.610	6	Lin Thru 0	0.0	22810	0.00000	0.999993	
Mo 202.031	6	Lin Thru 0	0.0	14350	0.00000	0.999997	
Na 589.592	4	Lin Thru 0	0.0	9358	0.00000	0.999969	
Ni 231.604	6	Lin Thru 0	0.0	23780	0.00000	0.999991	

Pb 220.353	6	Lin Thru 0	0.0	3608	0.00000	0.999989
Sb 206.836	6	Lin Thru 0	0.0	1926	0.00000	0.999951
Se 196.026	6	Lin Thru 0	0.0	1609	0.00000	0.999968
Sn 189.927	6	Lin Thru 0	0.0	4359	0.00000	0.999988
Ti 337.279	6	Lin Thru 0	0.0	18430	0.00000	0.999994
Tl 351.924	6	Lin Thru 0	0.0	3390	0.00000	0.999994
V 290.880	6	Lin Thru 0	0.0	62570	0.00000	0.999999
Zn 206.200	6	Lin Thru 0	0.0	18920	0.00000	0.999994
Zr 343.823	5	Lin Thru 0	0.0	172400	0.00000	0.999994

Calibration data for Ag 328.068

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	19.08	24.05	N/A
SEQ-CAL1@ 23J0971	536.9	0.01	0.0107	29.93	5.57	7.49%
SEQ-CAL2@ 23J0972	3980.9	0.0625	0.0797	30.37	0.76	27.51%
SEQ-CAL3@ 23J0973	16266.7	0.25	0.3257	508.78	3.13	30.26%
SEQ-CAL4@ 23J0974	31244.3	0.5	0.6255	427.75	1.37	25.10%
SEQ-CAL5@ 23J0975	136686.1	2.5	2.736	2120.07	1.55	9.46%
SEQ-CAL6@ 23J0976	243024.2	5.0	4.865	3619.79	1.49	-2.70%
Correlation Coef.: 0.998486 Slope: 49950 Intercept: 0.0						

Calibration data for Al 396.153

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	13.59	35.00	N/A
SEQ-CAL1@ 23J0971	161.8	0.05	0.0435	41.27	25.50	-12.97%
SEQ-CAL2@ 23J0972	948.0	0.25	0.2549	16.99	1.79	1.98%
SEQ-CAL3@ 23J0973	3876.1	1.0	1.042	142.77	3.68	4.24%
SEQ-CAL4@ 23J0974	7787.9	2.0	2.094	65.69	0.84	4.72%
SEQ-CAL5@ 23J0975	37706.9	10.0	10.14	48.68	0.13	1.41%
SEQ-CAL6@ 23J0976	76291.9	20.0	20.52	681.81	0.89	2.59%
SEQ-CAL7@ 23J0977	185025.4	50.0	49.76	166.13	0.09	-0.48%
Correlation Coef.: 0.999941 Slope: 3718 Intercept: 0.0						

Calibration data for As 188.979

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	3.27	6.00	N/A
SEQ-CAL1@ 23J0971	12.5	0.01	0.0109	5.01	40.26	8.68%
SEQ-CAL2@ 23J0972	147.0	0.125	0.1283	2.96	2.01	2.62%
SEQ-CAL3@ 23J0973	574.1	0.5	0.5010	6.59	1.15	0.20%
SEQ-CAL4@ 23J0974	1117.5	1.0	0.9752	12.97	1.16	-2.48%
SEQ-CAL5@ 23J0975	5608.4	5.0	4.894	55.72	0.99	-2.12%
SEQ-CAL6@ 23J0976	11522.9	10.0	10.06	230.49	2.00	0.55%
Correlation Coef.: 0.999941 Slope: 1146 Intercept: 0.0						

Calibration data for B 208.889

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.68	1.65	N/A
SEQ-CAL1@ 23J0971	658.2	0.1	0.0953	6.21	0.94	-4.73%
SEQ-CAL2@ 23J0972	846.7	0.125	0.1226	5.22	0.62	-1.95%
SEQ-CAL3@ 23J0973	3443.0	0.5	0.4984	26.43	0.77	-0.32%
SEQ-CAL4@ 23J0974	6649.0	1.0	0.9624	88.17	1.33	-3.76%
SEQ-CAL5@ 23J0975	34189.4	5.0	4.949	342.74	1.00	-1.02%
SEQ-CAL6@ 23J0976	69288.7	10.0	10.03	1239.16	1.79	0.29%
Correlation Coef.: 0.999981 Slope: 6909 Intercept: 0.0						

Calibration data for Ba 233.527

Equation: Linear Through Zero

Entered Calculated

ID	Mean Signal (Em)	Conc. mg/L	Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	5.47	21.99	N/A
SEQ-CAL1@ 23J0971	179.8	0.05	0.0522	0.68	0.38	4.31%
SEQ-CAL2@ 23J0972	434.2	0.125	0.1259	1.28	0.29	0.76%
SEQ-CAL3@ 23J0973	1722.8	0.5	0.4998	25.24	1.46	-0.05%
SEQ-CAL4@ 23J0974	3440.3	1.0	0.9979	34.17	0.99	-0.21%
SEQ-CAL5@ 23J0975	16900.7	5.0	4.902	316.69	1.87	-1.95%
SEQ-CAL6@ 23J0976	34642.5	10.0	10.05	275.37	0.79	0.49%
Correlation Coef.: 0.999953 Slope: 3447 Intercept: 0.0						

Calibration data for Be 313.107

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	13.61	15.48	N/A
SEQ-CAL1@ 23J0971	1109.1	0.004	0.0041	22.35	2.02	1.87%
SEQ-CAL2@ 23J0972	34294.3	0.125	0.1260	218.18	0.64	0.80%
SEQ-CAL3@ 23J0973	137792.9	0.5	0.5063	603.92	0.44	1.25%
SEQ-CAL4@ 23J0974	277134.8	1.0	1.018	651.73	0.24	1.82%
SEQ-CAL5@ 23J0975	1354902.1	5.0	4.978	29776.62	2.20	-0.44%
SEQ-CAL6@ 23J0976	2724246.1	10.0	10.01	26622.91	0.98	0.09%
Correlation Coef.: 0.999996 Slope: 272200 Intercept: 0.0						

Calibration data for Ca 317.933

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	30.42	3.57	N/A
SEQ-CAL1@ 23J0971	2935.9	0.5	0.5104	35.86	1.22	2.09%
SEQ-CAL4@ 23J0974	11871.0	2.0	2.064	64.02	0.54	3.19%
SEQ-CAL5@ 23J0975	56787.1	10.0	9.873	120.12	0.21	-1.27%
SEQ-CAL6@ 23J0976	114860.7	20.0	19.97	943.37	0.82	-0.15%
SEQ-CAL7@ 23J0977	287794.1	50.0	50.04	683.73	0.24	0.07%
Correlation Coef.: 0.999996 Slope: 5752 Intercept: 0.0						

Calibration data for Cd 228.802

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.04	1.26	N/A
SEQ-CAL1@ 23J0971	114.7	0.004	0.0040	0.70	0.61	0.21%
SEQ-CAL2@ 23J0972	3659.6	0.125	0.1279	13.63	0.37	2.35%
SEQ-CAL3@ 23J0973	14728.7	0.5	0.5149	130.60	0.89	2.98%
SEQ-CAL4@ 23J0974	28704.4	1.0	1.003	642.32	2.24	0.35%
SEQ-CAL5@ 23J0975	143605.4	5.0	5.020	434.97	0.30	0.41%
SEQ-CAL6@ 23J0976	285723.3	10.0	9.989	951.13	0.33	-0.11%
Correlation Coef.: 0.999997 Slope: 28600 Intercept: 0.0						

Calibration data for Co 228.616

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	11.34	10.79	N/A
SEQ-CAL1@ 23J0971	288.4	0.01	0.0103	4.63	1.61	3.24%
SEQ-CAL2@ 23J0972	3607.8	0.125	0.1291	30.04	0.83	3.31%
SEQ-CAL3@ 23J0973	14539.5	0.5	0.5204	434.08	2.99	4.09%
SEQ-CAL4@ 23J0974	28407.9	1.0	1.017	638.20	2.25	1.68%
SEQ-CAL5@ 23J0975	140651.7	5.0	5.035	428.60	0.30	0.69%
SEQ-CAL6@ 23J0976	278812.8	10.0	9.980	756.02	0.27	-0.20%
Correlation Coef.: 0.999991 Slope: 27940 Intercept: 0.0						

Calibration data for Cr 267.716

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

ID	(Em)	mg/L	mg/L	Deviation	%RSD	Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.87	10.70	N/A
SEQ-CAL1@ 23J0971	488.3	0.01	0.0104	2.47	0.51	3.63%
SEQ-CAL2@ 23J0972	6034.5	0.125	0.1281	67.77	1.12	2.45%
SEQ-CAL3@ 23J0973	24219.1	0.5	0.5140	757.50	3.13	2.79%
SEQ-CAL4@ 23J0974	47391.5	1.0	1.006	1048.90	2.21	0.57%
SEQ-CAL5@ 23J0975	236066.9	5.0	5.010	565.30	0.24	0.19%
SEQ-CAL6@ 23J0976	470935.5	10.0	9.994	1391.57	0.30	-0.06%

Correlation Coef.: 0.999999 Slope: 47120 Intercept: 0.0

Calibration data for Cu 327.393

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	78.15	6.94	N/A
SEQ-CAL1@ 23J0971	1073.9	0.01	0.0106	50.50	4.70	5.79%
SEQ-CAL2@ 23J0972	12205.2	0.125	0.1202	162.23	1.33	-3.82%
SEQ-CAL3@ 23J0973	50499.3	0.5	0.4974	1252.97	2.48	-0.51%
SEQ-CAL4@ 23J0974	99878.1	1.0	0.9838	2272.20	2.27	-1.62%
SEQ-CAL5@ 23J0975	503763.3	5.0	4.962	471.34	0.09	-0.76%
SEQ-CAL6@ 23J0976	1017294.4	10.0	10.02	3996.45	0.39	0.21%

Correlation Coef.: 0.999992 Slope: 101500 Intercept: 0.0

Calibration data for Fe 238.204

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.55	3.29	N/A
SEQ-CAL1@ 23J0971	177.9	0.05	0.0524	1.32	0.74	4.90%
SEQ-CAL2@ 23J0972	433.9	0.125	0.1280	5.16	1.19	2.36%
SEQ-CAL3@ 23J0973	1733.6	0.5	0.5112	52.12	3.01	2.24%
SEQ-CAL4@ 23J0974	3490.5	1.0	1.029	24.80	0.71	2.92%
SEQ-CAL5@ 23J0975	16684.6	5.0	4.920	7.15	0.04	-1.60%
SEQ-CAL6@ 23J0976	33491.7	10.0	9.876	358.35	1.07	-1.24%
SEQ-CAL7@ 23J0977	85002.2	25.0	25.06	242.93	0.29	0.26%

Correlation Coef.: 0.999982 Slope: 3391 Intercept: 0.0

Calibration data for K 766.490

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	99.64	10.40	N/A
SEQ-CAL4@ 23J0974	4172.8	2.0	2.089	64.10	1.54	4.45%
SEQ-CAL5@ 23J0975	19961.3	10.0	9.993	25.50	0.13	-0.07%
SEQ-CAL6@ 23J0976	40338.6	20.0	20.19	355.01	0.88	0.97%
SEQ-CAL7@ 23J0977	99714.6	50.0	49.92	230.17	0.23	-0.16%

Correlation Coef.: 0.999991 Slope: 1997 Intercept: 0.0

Calibration data for Mg 285.213

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.16	5.21	N/A
SEQ-CAL1@ 23J0971	557.2	0.05	0.0529	14.66	2.63	5.72%
SEQ-CAL2@ 23J0972	2759.8	0.25	0.2618	17.27	0.63	4.73%
SEQ-CAL3@ 23J0973	10969.8	1.0	1.041	371.04	3.38	4.07%
SEQ-CAL4@ 23J0974	22026.3	2.0	2.090	130.80	0.59	4.48%
SEQ-CAL5@ 23J0975	106123.1	10.0	10.07	33.86	0.03	0.68%
SEQ-CAL6@ 23J0976	213584.9	20.0	20.26	1848.01	0.87	1.31%
SEQ-CAL7@ 23J0977	525740.8	50.0	49.88	793.43	0.15	-0.25%

Correlation Coef.: 0.999984 Slope: 10540 Intercept: 0.0

Calibration data for Mn 257.610

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

ID	(Em)	mg/L	mg/L	Deviation	%RSD	Error
Cal Blank@ 23J0970	0.0	0	0.0000	9.32	2.80	N/A
SEQ-CAL1@ 23J0971	233.6	0.01	0.0102	6.39	2.74	2.42%
SEQ-CAL2@ 23J0972	2919.3	0.125	0.1280	26.89	0.92	2.38%
SEQ-CAL3@ 23J0973	11658.9	0.5	0.5111	358.02	3.07	2.22%
SEQ-CAL4@ 23J0974	23549.8	1.0	1.032	129.34	0.55	3.23%
SEQ-CAL5@ 23J0975	113518.1	5.0	4.976	146.42	0.13	-0.48%
SEQ-CAL6@ 23J0976	228305.5	10.0	10.01	1893.03	0.83	0.08%

Correlation Coef.: 0.999993 Slope: 22810 Intercept: 0.0

Calibration data for Mo 202.031

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.13	3.20	N/A
SEQ-CAL1@ 23J0971	732.6	0.05	0.0510	7.53	1.03	2.09%
SEQ-CAL2@ 23J0972	1851.3	0.125	0.1290	10.59	0.57	3.19%
SEQ-CAL3@ 23J0973	7399.6	0.5	0.5156	70.69	0.96	3.12%
SEQ-CAL4@ 23J0974	14005.1	1.0	0.9758	358.98	2.56	-2.42%
SEQ-CAL5@ 23J0975	71769.6	5.0	5.001	139.63	0.19	0.01%
SEQ-CAL6@ 23J0976	143538.3	10.0	10.00	395.61	0.28	0.01%

Correlation Coef.: 0.999997 Slope: 14350 Intercept: 0.0

Calibration data for Na 589.592

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	22.61	6.47	N/A
SEQ-CAL4@ 23J0974	19237.4	2.0	2.056	116.11	0.60	2.79%
SEQ-CAL5@ 23J0975	93066.2	10.0	9.945	224.44	0.24	-0.55%
SEQ-CAL6@ 23J0976	190891.2	20.0	20.40	1928.55	1.01	2.00%
SEQ-CAL7@ 23J0977	466471.0	50.0	49.85	2164.08	0.46	-0.30%

Correlation Coef.: 0.999969 Slope: 9358 Intercept: 0.0

Calibration data for Ni 231.604

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.64	2.90	N/A
SEQ-CAL1@ 23J0971	249.2	0.01	0.0105	8.92	3.58	4.81%
SEQ-CAL2@ 23J0972	3065.9	0.125	0.1289	21.64	0.71	3.15%
SEQ-CAL3@ 23J0973	12373.6	0.5	0.5204	327.19	2.64	4.07%
SEQ-CAL4@ 23J0974	24254.0	1.0	1.020	585.65	2.41	2.00%
SEQ-CAL5@ 23J0975	119680.6	5.0	5.033	21.04	0.02	0.66%
SEQ-CAL6@ 23J0976	237318.1	10.0	9.980	1078.29	0.45	-0.20%

Correlation Coef.: 0.999991 Slope: 23780 Intercept: 0.0

Calibration data for Pb 220.353

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.55	49.35	N/A
SEQ-CAL1@ 23J0971	39.9	0.01	0.0111	12.28	30.77	10.60%
SEQ-CAL2@ 23J0972	467.9	0.125	0.1297	5.48	1.17	3.75%
SEQ-CAL3@ 23J0973	1857.7	0.5	0.5149	18.59	1.00	2.98%
SEQ-CAL4@ 23J0974	3649.0	1.0	1.011	28.33	0.78	1.14%
SEQ-CAL5@ 23J0975	17880.7	5.0	4.956	161.61	0.90	-0.88%
SEQ-CAL6@ 23J0976	36151.7	10.0	10.02	700.37	1.94	0.20%

Correlation Coef.: 0.999989 Slope: 3608 Intercept: 0.0

Calibration data for Sb 206.836

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	6.61	8.52	N/A

SEQ-CAL1@	23J0971	73.1	0.05	0.0380	3.46	4.73	-24.07%
SEQ-CAL2@	23J0972	240.7	0.125	0.1250	2.17	0.90	0.02%
SEQ-CAL3@	23J0973	957.0	0.5	0.4970	3.62	0.38	-0.60%
SEQ-CAL4@	23J0974	1847.0	1.0	0.9592	20.47	1.11	-4.08%
SEQ-CAL5@	23J0975	9453.3	5.0	4.909	103.47	1.09	-1.81%
SEQ-CAL6@	23J0976	19351.1	10.0	10.05	390.37	2.02	0.50%
Correlation Coef.: 0.999951 Slope: 1926 Intercept: 0.0							

No 6010 Sb
MJH
4-19-24

Calibration data for Se 196.026

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.21	41.92	N/A
SEQ-CAL1@ 23J0971	71.9	0.05	0.0447	2.78	3.86	-10.61%
SEQ-CAL2@ 23J0972	196.9	0.125	0.1224	1.99	1.01	-2.05%
SEQ-CAL3@ 23J0973	807.6	0.5	0.5021	11.57	1.43	0.42%
SEQ-CAL4@ 23J0974	1586.9	1.0	0.9866	16.34	1.03	-1.34%
SEQ-CAL5@ 23J0975	7915.8	5.0	4.921	82.61	1.04	-1.58%
SEQ-CAL6@ 23J0976	16150.5	10.0	10.04	386.19	2.39	0.41%
Correlation Coef.: 0.999968 Slope: 1609 Intercept: 0.0						

Calibration data for Sn 189.927

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	7.66	12.57	N/A
SEQ-CAL1@ 23J0971	431.8	0.1	0.0991	2.19	0.51	-0.93%
SEQ-CAL2@ 23J0972	556.1	0.125	0.1276	1.89	0.34	2.06%
SEQ-CAL3@ 23J0973	2228.1	0.5	0.5111	9.71	0.44	2.23%
SEQ-CAL4@ 23J0974	4253.7	1.0	0.9758	48.44	1.14	-2.42%
SEQ-CAL5@ 23J0975	21615.8	5.0	4.959	215.47	1.00	-0.82%
SEQ-CAL6@ 23J0976	43687.9	10.0	10.02	754.40	1.73	0.22%
Correlation Coef.: 0.999988 Slope: 4359 Intercept: 0.0						

Calibration data for Ti 337.279

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.93	5.48	N/A
SEQ-CAL1@ 23J0971	373.8	0.02	0.0203	9.74	2.61	1.38%
SEQ-CAL2@ 23J0972	2339.1	0.125	0.1269	16.44	0.70	1.51%
SEQ-CAL3@ 23J0973	9377.3	0.5	0.5087	309.35	3.30	1.74%
SEQ-CAL4@ 23J0974	18325.7	1.0	0.9941	116.23	0.63	-0.59%
SEQ-CAL5@ 23J0975	91562.0	5.0	4.967	234.36	0.26	-0.66%
SEQ-CAL6@ 23J0976	184641.9	10.0	10.02	1599.12	0.87	0.17%
Correlation Coef.: 0.999994 Slope: 18430 Intercept: 0.0						

Calibration data for Tl 351.924

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	40.81	249.89	N/A
SEQ-CAL1@ 23J0971	162.8	0.05	0.0480	3.66	2.25	-3.93%
SEQ-CAL2@ 23J0972	177.4	0.0625	0.0523	18.67	10.52	-16.28%
SEQ-CAL3@ 23J0973	824.4	0.25	0.2432	20.72	2.51	-2.74%
SEQ-CAL4@ 23J0974	1674.9	0.5	0.4940	21.61	1.29	-1.19%
SEQ-CAL5@ 23J0975	8517.0	2.5	2.512	67.17	0.79	0.49%
SEQ-CAL6@ 23J0976	16934.2	5.0	4.995	277.75	1.64	-0.10%
Correlation Coef.: 0.999994 Slope: 3390 Intercept: 0.0						

Calibration data for V 290.880

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	12.05	1.28	N/A

[illegible]

Calibration data for Zn 206.200

Equation: Linear Through Zero

ID		Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@	23J0970	0.0	0	0.0000	0.42	0.21	N/A
SEQ-CAL1@	23J0971	202.3	0.01	0.0107	5.77	2.85	6.89%
SEQ-CAL2@	23J0972	2415.9	0.125	0.1277	12.11	0.50	2.13%
SEQ-CAL3@	23J0973	9819.8	0.5	0.5189	64.04	0.65	3.78%
SEQ-CAL4@	23J0974	19079.3	1.0	1.008	497.90	2.61	0.82%
SEQ-CAL5@	23J0975	95169.8	5.0	5.029	146.60	0.15	0.58%
SEQ-CAL6@	23J0976	188923.6	10.0	9.984	568.59	0.30	-0.16%
Correlation Coef.:		0.999994	Slope: 18920		Intercept: 0.0		

Calibration data for Zr 343.823

Equation: Linear Through Zero

ID		Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error	
Cal Blank@	23J0970	0.0	0	0.0000	70.58	93.77	N/A	
SEQ-CAL2@	23J0972	21449.0	0.125	0.1244	203.73	0.95	-0.49%	
SEQ-CAL3@	23J0973	86958.9	0.5	0.5043	2017.53	2.32	0.85%	
SEQ-CAL4@	23J0974	166442.6	1.0	0.9652	3640.25	2.19	-3.48%	
SEQ-CAL5@	23J0975	860087.7	5.0	4.988	1816.92	0.21	-0.25%	
SEQ-CAL6@	23J0976	1726082.3	10.0	10.01	3960.80	0.23	0.09%	
Correlation Coef.:		0.999994	Slope: 172400		Intercept: 0.0			

=====
Analysis Begun

Start Time: 4/18/2024 10:10:43 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====
Method Loaded

Method Name: ICP3 012424_IEC*

Method Last Saved: 4/18/2024 9:09:38 AM

IEC File: 011224.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

=====
Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 10:10:44 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

=====
Replicate Data: SEQ-ICV@ 23I0972

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y radial	148601.2	148601.2	96.9 %	96.9 %	10:11:55 AM
1	Al 396.153†	8217.5	8444.4	2.177 mg/L	2.177 mg/L	10:11:57 AM
1	Ba 233.527†	6735.7	6919.1	2.006 mg/L	2.006 mg/L	10:11:57 AM
1	Be 313.107†	524240.0	541101.0	1.979 mg/L	1.979 mg/L	10:11:55 AM
1	Ca 317.933†	12797.7	12359.0	2.148 mg/L	2.148 mg/L	10:11:57 AM
1	Fe 238.204†	7066.8	7372.9	2.192 mg/L	2.192 mg/L	10:11:57 AM
1	K 766.490†	5185.2	4394.8	2.200 mg/L	2.200 mg/L	10:11:57 AM

1	Mg	285.213†	22852.5	23357.9	2.219 mg/L	2.219 mg/L	10:11:57 AM
1	Mn	257.610†	45833.0	47648.0	2.089 mg/L	2.089 mg/L	10:11:57 AM
1	Na	589.592†	19257.2	19530.4	2.087 mg/L	2.087 mg/L	10:11:55 AM
1	Ti	337.279†	36803.4	38229.2	2.074 mg/L	2.074 mg/L	10:11:57 AM
1	Y axial	1990416.4	1990416.4	97.7 %	97.7 %	97.7 %	10:12:13 AM
1	As	188.979†	2123.6	2228.1	1.942 mg/L	1.942 mg/L	10:12:33 AM
1	B	208.889†	13307.6	13458.6	1.850 mg/L	1.850 mg/L	10:12:33 AM
1	Cd	228.802†	56268.2	57430.3	1.991 mg/L	1.991 mg/L	10:12:13 AM
1	Co	228.616†	55620.5	56824.2	2.033 mg/L	2.033 mg/L	10:12:13 AM
1	Cr	267.716†	93917.7	96082.4	2.039 mg/L	2.039 mg/L	10:12:13 AM
1	Cu	327.393†	201450.2	205064.8	2.024 mg/L	2.024 mg/L	10:12:13 AM
1	Mo	202.031†	28365.9	28904.4	2.014 mg/L	2.014 mg/L	10:12:33 AM
1	Ni	231.604†	48359.6	49061.3	2.061 mg/L	2.061 mg/L	10:12:13 AM
1	Pb	220.353†	7029.1	7203.8	1.999 mg/L	1.999 mg/L	10:12:33 AM
1	Sb	206.836†	3764.4	3775.5	1.972 mg/L	1.972 mg/L	10:12:33 AM
1	Se	196.026†	3058.9	3125.7	1.942 mg/L	1.942 mg/L	10:12:33 AM
1	Sn	189.927†	8474.0	8734.4	2.008 mg/L	2.008 mg/L	10:12:33 AM
1	Tl	351.924†	3304.1	3398.2	1.012 mg/L	1.012 mg/L	10:12:33 AM
1	V	290.880†	122805.6	124755.6	2.049 mg/L	2.049 mg/L	10:12:13 AM
1	Zn	206.200†	37326.6	38404.2	2.049 mg/L	2.049 mg/L	10:12:13 AM
1	Zr	343.823†	337395.3	345259.9	2.002 mg/L	2.002 mg/L	10:12:13 AM
1	Ag	328.068†	55226.5	56446.8	1.130 mg/L	1.130 mg/L	10:13:53 AM
2	Y radial	151901.8	151901.8	99.0 %	99.0 %	99.0 %	10:11:59 AM
2	Al	396.153†	8063.2	8104.2	2.085 mg/L	2.085 mg/L	10:12:01 AM
2	Ba	233.527†	6619.4	6814.9	1.976 mg/L	1.976 mg/L	10:12:01 AM
2	Be	313.107†	535740.0	540955.8	1.979 mg/L	1.979 mg/L	10:11:59 AM
2	Ca	317.933†	12582.0	11854.2	2.060 mg/L	2.060 mg/L	10:12:01 AM
2	Fe	238.204†	6891.5	7037.3	2.093 mg/L	2.093 mg/L	10:12:01 AM
2	K	766.490†	5177.6	4270.8	2.138 mg/L	2.138 mg/L	10:12:01 AM
2	Mg	285.213†	22361.1	22349.0	2.123 mg/L	2.123 mg/L	10:12:01 AM
2	Mn	257.610†	44877.9	45655.4	2.002 mg/L	2.002 mg/L	10:12:01 AM
2	Na	589.592†	19692.8	19538.4	2.088 mg/L	2.088 mg/L	10:11:59 AM
2	Ti	337.279†	36180.8	36774.8	1.995 mg/L	1.995 mg/L	10:12:01 AM
2	Y axial	1986074.5	1986074.5	97.5 %	97.5 %	97.5 %	10:12:36 AM
2	As	188.979†	2113.7	2222.7	1.937 mg/L	1.937 mg/L	10:12:56 AM
2	B	208.889†	13340.1	13521.7	1.859 mg/L	1.859 mg/L	10:12:56 AM
2	Cd	228.802†	56047.3	57329.7	1.987 mg/L	1.987 mg/L	10:12:36 AM
2	Co	228.616†	55273.6	56592.8	2.025 mg/L	2.025 mg/L	10:12:36 AM
2	Cr	267.716†	93185.9	95541.8	2.028 mg/L	2.028 mg/L	10:12:36 AM
2	Cu	327.393†	199605.3	203623.0	2.009 mg/L	2.009 mg/L	10:12:36 AM
2	Mo	202.031†	28396.2	28998.9	2.021 mg/L	2.021 mg/L	10:12:56 AM
2	Ni	231.604†	48013.6	48814.7	2.051 mg/L	2.051 mg/L	10:12:36 AM
2	Pb	220.353†	7029.9	7220.3	2.003 mg/L	2.003 mg/L	10:12:56 AM
2	Sb	206.836†	3764.1	3783.6	1.977 mg/L	1.977 mg/L	10:12:56 AM
2	Se	196.026†	3064.1	3137.8	1.950 mg/L	1.950 mg/L	10:12:56 AM
2	Sn	189.927†	8478.2	8757.7	2.013 mg/L	2.013 mg/L	10:12:56 AM
2	Tl	351.924†	3318.6	3420.4	1.019 mg/L	1.019 mg/L	10:12:56 AM
2	V	290.880†	121927.9	124130.1	2.039 mg/L	2.039 mg/L	10:12:36 AM
2	Zn	206.200†	37111.2	38266.7	2.042 mg/L	2.042 mg/L	10:12:36 AM
2	Zr	343.823†	334903.0	343458.4	1.992 mg/L	1.992 mg/L	10:12:36 AM
2	Ag	328.068†	58036.6	59452.9	1.190 mg/L	1.190 mg/L	10:13:55 AM
3	Y radial	152742.0	152742.0	99.6 %	99.6 %	99.6 %	10:12:03 AM
3	Al	396.153†	8019.7	8015.8	2.063 mg/L	2.063 mg/L	10:12:05 AM
3	Ba	233.527†	6682.3	6789.3	1.968 mg/L	1.968 mg/L	10:12:05 AM
3	Be	313.107†	536846.5	539091.1	1.972 mg/L	1.972 mg/L	10:12:03 AM
3	Ca	317.933†	12592.4	11794.7	2.050 mg/L	2.050 mg/L	10:12:05 AM
3	Fe	238.204†	6906.5	7014.1	2.086 mg/L	2.086 mg/L	10:12:05 AM
3	K	766.490†	5220.4	4285.0	2.145 mg/L	2.145 mg/L	10:12:05 AM
3	Mg	285.213†	22389.4	22253.3	2.114 mg/L	2.114 mg/L	10:12:05 AM
3	Mn	257.610†	45005.1	45533.8	1.997 mg/L	1.997 mg/L	10:12:05 AM
3	Na	589.592†	19711.6	19447.8	2.078 mg/L	2.078 mg/L	10:12:03 AM
3	Ti	337.279†	36080.8	36473.4	1.979 mg/L	1.979 mg/L	10:12:05 AM
3	Y axial	2012505.3	2012505.3	98.8 %	98.8 %	98.8 %	10:12:58 AM
3	As	188.979†	2132.3	2213.1	1.929 mg/L	1.929 mg/L	10:13:19 AM
3	B	208.889†	13407.4	13410.1	1.844 mg/L	1.844 mg/L	10:13:19 AM
3	Cd	228.802†	56995.4	57534.4	1.995 mg/L	1.995 mg/L	10:12:58 AM
3	Co	228.616†	56281.6	56868.6	2.035 mg/L	2.035 mg/L	10:12:58 AM
3	Cr	267.716†	95116.8	96241.1	2.043 mg/L	2.043 mg/L	10:12:58 AM
3	Cu	327.393†	203385.0	204760.2	2.020 mg/L	2.020 mg/L	10:12:58 AM
3	Mo	202.031†	28416.0	28636.4	1.996 mg/L	1.996 mg/L	10:13:19 AM

3	Ni	231.604†	48698.2	48860.8	2.053 mg/L	2.053 mg/L	10:12:58 AM
3	Pb	220.353†	7034.4	7130.1	1.978 mg/L	1.978 mg/L	10:13:19 AM
3	Sb	206.836†	3761.9	3730.6	1.949 mg/L	1.949 mg/L	10:13:19 AM
3	Se	196.026†	3063.6	3096.1	1.924 mg/L	1.924 mg/L	10:13:19 AM
3	Sn	189.927†	8511.3	8676.9	1.995 mg/L	1.995 mg/L	10:13:19 AM
3	Tl	351.924†	3323.4	3380.6	1.007 mg/L	1.007 mg/L	10:13:19 AM
3	V	290.880†	124230.8	124818.7	2.049 mg/L	2.049 mg/L	10:12:58 AM
3	Zn	206.200†	37783.7	38447.6	2.052 mg/L	2.052 mg/L	10:12:58 AM
3	Zr	343.823†	340539.3	344652.2	1.999 mg/L	1.999 mg/L	10:12:58 AM
3	Ag	328.068†	55767.1	56373.6	1.129 mg/L	1.129 mg/L	10:13:57 AM
4	Y radial		151540.6	151540.6	98.8 %	98.8 %	10:12:08 AM
4	Al	396.153†	7923.8	7982.5	2.050 mg/L	2.050 mg/L	10:12:10 AM
4	Ba	233.527†	6488.9	6834.1	1.981 mg/L	1.981 mg/L	10:12:10 AM
4	Be	313.107†	533703.0	540183.4	1.976 mg/L	1.976 mg/L	10:12:08 AM
4	Ca	317.933†	12370.9	11670.8	2.028 mg/L	2.028 mg/L	10:12:10 AM
4	Fe	238.204†	6795.0	6956.2	2.069 mg/L	2.069 mg/L	10:12:10 AM
4	K	766.490†	5157.3	4262.7	2.134 mg/L	2.134 mg/L	10:12:10 AM
4	Mg	285.213†	22107.7	22146.3	2.104 mg/L	2.104 mg/L	10:12:10 AM
4	Mn	257.610†	44286.3	45164.6	1.981 mg/L	1.981 mg/L	10:12:10 AM
4	Na	589.592†	19676.8	19569.6	2.091 mg/L	2.091 mg/L	10:12:08 AM
4	Ti	337.279†	35621.1	36295.3	1.969 mg/L	1.969 mg/L	10:12:10 AM
4	Y axial		1941399.8	1941399.8	95.3 %	95.3 %	10:13:21 AM
4	As	188.979†	2129.2	2288.9	1.994 mg/L	1.994 mg/L	10:13:41 AM
4	B	208.889†	13462.4	13964.9	1.921 mg/L	1.921 mg/L	10:13:41 AM
4	Cd	228.802†	54933.0	57483.3	1.992 mg/L	1.992 mg/L	10:13:21 AM
4	Co	228.616†	54130.2	56697.7	2.029 mg/L	2.029 mg/L	10:13:21 AM
4	Cr	267.716†	91131.5	95585.6	2.029 mg/L	2.029 mg/L	10:13:21 AM
4	Cu	327.393†	196337.5	204905.5	2.022 mg/L	2.022 mg/L	10:13:21 AM
4	Mo	202.031†	28566.3	29847.7	2.080 mg/L	2.080 mg/L	10:13:41 AM
4	Ni	231.604†	46931.1	48812.0	2.051 mg/L	2.051 mg/L	10:13:21 AM
4	Pb	220.353†	7036.3	7393.0	2.051 mg/L	2.051 mg/L	10:13:41 AM
4	Sb	206.836†	3773.9	3882.7	2.029 mg/L	2.029 mg/L	10:13:41 AM
4	Se	196.026†	3065.1	3211.2	1.995 mg/L	1.995 mg/L	10:13:41 AM
4	Sn	189.927†	8490.5	8970.7	2.062 mg/L	2.062 mg/L	10:13:41 AM
4	Tl	351.924†	3333.9	3514.8	1.047 mg/L	1.047 mg/L	10:13:41 AM
4	V	290.880†	119539.9	124502.2	2.046 mg/L	2.046 mg/L	10:13:21 AM
4	Zn	206.200†	36074.8	38055.2	2.031 mg/L	2.031 mg/L	10:13:21 AM
4	Zr	343.823†	328910.7	345075.4	2.001 mg/L	2.001 mg/L	10:13:21 AM
4	Ag	328.068†	57328.1	60079.4	1.203 mg/L	1.203 mg/L	10:13:59 AM

Mean Data: SEQ-ICV@ 2310972

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151196.4	98.6 %	1.17	98.6 %	1.17	1.19%
Y axial	1982599.0	97.3 %	1.46	97.3 %	1.46	1.50%
Ag 328.068†	58088.1	1.163 mg/L	0.0391	1.163 mg/L	0.0391	3.37%
QC value greater than the upper limit for Ag 328.068 Recovery = 116.29%						
Al 396.153†	8136.7	2.094 mg/L	0.0575	2.094 mg/L	0.0575	2.74%
QC value within limits for Al 396.153 Recovery = 104.69%						
As 188.979†	2238.2	1.950 mg/L	0.0297	1.950 mg/L	0.0297	1.52%
QC value within limits for As 188.979 Recovery = 97.52%						
B 208.889†	13588.9	1.869 mg/L	0.0351	1.869 mg/L	0.0351	1.88%
QC value less than the lower limit for B 208.889 Recovery = 93.43%						
Ba 233.527†	6839.4	1.983 mg/L	0.0163	1.983 mg/L	0.0163	0.82%
QC value within limits for Ba 233.527 Recovery = 99.15%						
Be 313.107†	540332.8	1.976 mg/L	0.0034	1.976 mg/L	0.0034	0.17%
QC value within limits for Be 313.107 Recovery = 98.81%						
Ca 317.933†	11919.7	2.072 mg/L	0.0526	2.072 mg/L	0.0526	2.54%
QC value within limits for Ca 317.933 Recovery = 103.59%						
Cd 228.802†	57444.4	1.991 mg/L	0.0030	1.991 mg/L	0.0030	0.15%
QC value within limits for Cd 228.802 Recovery = 99.57%						
Co 228.616†	56745.8	2.031 mg/L	0.0044	2.031 mg/L	0.0044	0.22%
QC value within limits for Co 228.616 Recovery = 101.54%						
Cr 267.716†	95862.7	2.035 mg/L	0.0075	2.035 mg/L	0.0075	0.37%
QC value within limits for Cr 267.716 Recovery = 101.74%						
Cu 327.393†	204588.4	2.019 mg/L	0.0065	2.019 mg/L	0.0065	0.32%
QC value within limits for Cu 327.393 Recovery = 100.94%						
Fe 238.204†	7095.1	2.110 mg/L	0.0555	2.110 mg/L	0.0555	2.63%
QC value greater than the upper limit for Fe 238.204 Recovery = 105.51%						

No Ag
No 200.7 B, Fe, K, Mg
MJH 4-19-24

K 766.490† 4303.3 2.154 mg/L 0.0309 2.154 mg/L 0.0309 1.43%
 QC value greater than the upper limit for K 766.490 Recovery = 107.70%
 Mg 285.213† 22526.6 2.140 mg/L 0.0532 2.140 mg/L 0.0532 2.49%
 QC value greater than the upper limit for Mg 285.213 Recovery = 106.99%
 Mn 257.610† 46000.4 2.017 mg/L 0.0490 2.017 mg/L 0.0490 2.43%
 QC value within limits for Mn 257.610 Recovery = 100.86%
 Mo 202.031† 29096.9 2.028 mg/L 0.0365 2.028 mg/L 0.0365 1.80%
 QC value within limits for Mo 202.031 Recovery = 101.38%
 Na 589.592† 19521.6 2.086 mg/L 0.0056 2.086 mg/L 0.0056 0.27%
 QC value within limits for Na 589.592 Recovery = 104.31%
 Ni 231.604† 48887.2 2.054 mg/L 0.0050 2.054 mg/L 0.0050 0.24%
 QC value within limits for Ni 231.604 Recovery = 102.69%
 Pb 220.353† 7236.8 2.008 mg/L 0.0309 2.008 mg/L 0.0309 1.54%
 QC value within limits for Pb 220.353 Recovery = 100.39%
 Sb 206.836† 3793.1 1.982 mg/L 0.0341 1.982 mg/L 0.0341 1.72%
 QC value within limits for Sb 206.836 Recovery = 99.08%
 Se 196.026† 3142.7 1.953 mg/L 0.0304 1.953 mg/L 0.0304 1.56%
 QC value within limits for Se 196.026 Recovery = 97.63%
 Sn 189.927† 8784.9 2.019 mg/L 0.0294 2.019 mg/L 0.0294 1.46%
 QC value within limits for Sn 189.927 Recovery = 100.97%
 Ti 337.279† 36943.2 2.004 mg/L 0.0477 2.004 mg/L 0.0477 2.38%
 QC value within limits for Ti 337.279 Recovery = 100.21%
 Tl 351.924† 3428.5 1.021 mg/L 0.0177 1.021 mg/L 0.0177 1.73%
 QC value within limits for Tl 351.924 Recovery = 102.11%
 V 290.880† 124551.6 2.046 mg/L 0.0048 2.046 mg/L 0.0048 0.24%
 QC value within limits for V 290.880 Recovery = 102.29%
 Zn 206.200† 38293.4 2.044 mg/L 0.0094 2.044 mg/L 0.0094 0.46%
 QC value within limits for Zn 206.200 Recovery = 102.18%
 Zr 343.823† 344611.5 1.998 mg/L 0.0047 1.998 mg/L 0.0047 0.23%
 QC value within limits for Zr 343.823 Recovery = 99.92%
 QC Failed. Continue with analysis.
 User canceled analysis.

No Ag
 No 200.7 B, Fe, K, Mg
 MJH 4-19-24

Analysis Begun

Start Time: 4/18/2024 10:26:28 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
 0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Method Loaded

Method Name: ICP3 012424_IEC*

Method Last Saved: 4/18/2024 10:14:02 AM

IEC File: 011224.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

Batch ID: OPTIMA 3

Sequence No.: 2

Sample ID: SEQ-ICB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample):

Autosampler Location: 1

Date Collected: 4/18/2024 10:26:39 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151345.8	98.7 %	0.12	98.7 %	0.12	0.12%
Y axial	2005958.3	98.5 %	0.73	98.5 %	0.73	0.74%
Ag 328.068†	1379.7	0.0276 mg/L	0.00070	0.0276 mg/L	0.00070	2.53%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-3.5	-0.0010 mg/L	0.00871	-0.0010 mg/L	0.00871	914.17%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	6.2	0.0054 mg/L	0.00429	0.0054 mg/L	0.00429	79.70%
QC value greater than the upper limit for As 188.979 Recovery = Not calculated						
B 208.889†	85.1	0.0123 mg/L	0.00097	0.0123 mg/L	0.00097	7.89%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	2.5	0.0007 mg/L	0.00060	0.0007 mg/L	0.00060	83.59%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	18.1	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	33.52%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	0.5	0.0001 mg/L	0.00165	0.0001 mg/L	0.00165	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-1.6	-0.0001 mg/L	0.00032	-0.0001 mg/L	0.00032	257.57%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-8.5	-0.0003 mg/L	0.00020	-0.0003 mg/L	0.00020	65.02%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	10.6	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	80.28%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	220.7	0.0022 mg/L	0.00056	0.0022 mg/L	0.00056	25.72%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	2.7	0.0008 mg/L	0.00035	0.0008 mg/L	0.00035	44.12%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	48.5	0.0243 mg/L	0.04475	0.0243 mg/L	0.04475	184.23%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	15.5	0.0015 mg/L	0.00050	0.0015 mg/L	0.00050	34.08%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	1.0	0.0000 mg/L	0.00042	0.0000 mg/L	0.00042	943.99%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	0.8	0.0001 mg/L	0.00047	0.0001 mg/L	0.00047	848.25%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	9.2	0.0010 mg/L	0.00774	0.0010 mg/L	0.00774	785.96%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-16.4	-0.0007 mg/L	0.00075	-0.0007 mg/L	0.00075	108.69%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	12.4	0.0034 mg/L	0.00073	0.0034 mg/L	0.00073	21.17%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	4.5	0.0023 mg/L	0.00268	0.0023 mg/L	0.00268	115.08%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.6	-0.0016 mg/L	0.00237	-0.0016 mg/L	0.00237	146.48%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-0.2	-0.0000 mg/L	0.00066	-0.0000 mg/L	0.00066	>999.9%

No Ag
No H2O As (TCLP/SOIL OK)
MJH 4-1-24

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 14.0 0.0008 mg/L 0.00184 0.0008 mg/L 0.00184 242.90%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 8.9 0.0026 mg/L 0.00996 0.0026 mg/L 0.00996 376.96%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 18.0 0.0003 mg/L 0.00018 0.0003 mg/L 0.00018 60.61%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 38.8 0.0021 mg/L 0.00038 0.0021 mg/L 0.00038 18.53%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 75.3 0.0004 mg/L 0.00014 0.0004 mg/L 0.00014 32.59%
 QC Failed. Continue with analysis.

Batch ID: OPTIMA 3

Sequence No.: 3

Sample ID: SEQ-LCV@ 23I0974

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 10

Date Collected: 4/18/2024 10:32:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@ 23I0974

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150826.0	98.3 %	0.50	98.3 %	0.50	0.51%
Y axial	2020818.5	99.2 %	0.97	99.2 %	0.97	0.97%
Ag 328.068†	1317.6	0.0264 mg/L	0.00036	0.0264 mg/L	0.00036	1.38%
QC value greater than the upper limit for Ag 328.068						Recovery = 263.78%
Al 396.153†	353.2	0.0925 mg/L	0.01550	0.0925 mg/L	0.01550	16.77%
QC value greater than the upper limit for Al 396.153						Recovery = 184.92%
As 188.979†	12.8	0.0109 mg/L	0.00445	0.0109 mg/L	0.00445	41.01%
QC value within limits for As 188.979						Recovery = 108.59%
B 208.889†	729.5	0.1031 mg/L	0.00006	0.1031 mg/L	0.00006	0.05%
QC value within limits for B 208.889						Recovery = 103.05%
Ba 233.527†	181.1	0.0525 mg/L	0.00077	0.0525 mg/L	0.00077	1.47%
QC value within limits for Ba 233.527						Recovery = 105.05%
Be 313.107†	1142.6	0.0041 mg/L	0.00003	0.0041 mg/L	0.00003	0.74%
QC value within limits for Be 313.107						Recovery = 103.50%
Ca 317.933†	3012.1	0.5237 mg/L	0.00238	0.5237 mg/L	0.00238	0.45%
QC value within limits for Ca 317.933						Recovery = 104.73%
Cd 228.802†	113.5	0.0039 mg/L	0.00021	0.0039 mg/L	0.00021	5.31%
QC value within limits for Cd 228.802						Recovery = 96.64%
Co 228.616†	286.7	0.0104 mg/L	0.00007	0.0104 mg/L	0.00007	0.63%
QC value within limits for Co 228.616						Recovery = 103.58%
Cr 267.716†	514.4	0.0109 mg/L	0.00015	0.0109 mg/L	0.00015	1.36%
QC value within limits for Cr 267.716						Recovery = 109.19%
Cu 327.393†	1951.0	0.0193 mg/L	0.00065	0.0193 mg/L	0.00065	3.36%
QC value greater than the upper limit for Cu 327.393						Recovery = 192.54%
Fe 238.204†	185.9	0.0549 mg/L	0.00152	0.0549 mg/L	0.00152	2.77%
QC value within limits for Fe 238.204						Recovery = 109.83%
K 766.490†	4238.8	2.122 mg/L	0.0869	2.122 mg/L	0.0869	4.10%
QC value within limits for K 766.490						Recovery = 106.10%
Mg 285.213†	595.0	0.0563 mg/L	0.00015	0.0563 mg/L	0.00015	0.27%
QC value within limits for Mg 285.213						Recovery = 112.70%
Mn 257.610†	232.7	0.0102 mg/L	0.00013	0.0102 mg/L	0.00013	1.31%
QC value within limits for Mn 257.610						Recovery = 102.03%
Mo 202.031†	751.9	0.0524 mg/L	0.00018	0.0524 mg/L	0.00018	0.34%
QC value within limits for Mo 202.031						Recovery = 104.77%
Na 589.592†	19386.3	2.072 mg/L	0.0225	2.072 mg/L	0.0225	1.09%
QC value within limits for Na 589.592						Recovery = 103.59%
Ni 231.604†	252.8	0.0106 mg/L	0.00015	0.0106 mg/L	0.00015	1.40%
QC value within limits for Ni 231.604						Recovery = 106.24%
Pb 220.353†	48.3	0.0134 mg/L	0.00117	0.0134 mg/L	0.00117	8.71%
QC value greater than the upper limit for Pb 220.353						Recovery = 134.47%
Sb 206.836†	79.0	0.0425 mg/L	0.00275	0.0425 mg/L	0.00275	6.48%
QC value within limits for Sb 206.836						Recovery = 84.96%
Se 196.026†	72.7	0.0452 mg/L	0.00152	0.0452 mg/L	0.00152	3.37%
QC value within limits for Se 196.026						Recovery = 90.45%
Sn 189.927†	454.9	0.1045 mg/L	0.00113	0.1045 mg/L	0.00113	1.08%

No Ag, Al
 RR Cu, Pb, Zn
 MJH 4-19-24

QC value within limits for Sn 189.927 Recovery = 104.48%
 Ti 337.279† 386.2 0.0210 mg/L 0.00060 0.0210 mg/L 0.00060 2.89%
 QC value within limits for Ti 337.279 Recovery = 104.76%
 Tl 351.924† 136.8 0.0406 mg/L 0.00998 0.0406 mg/L 0.00998 24.60%
 QC value within limits for Tl 351.924 Recovery = 81.17%
 V 290.880† 568.5 0.0103 mg/L 0.00022 0.0103 mg/L 0.00022 2.10%
 QC value within limits for V 290.880 Recovery = 103.41%
 Zn 206.200† 270.2 0.0142 mg/L 0.00049 0.0142 mg/L 0.00049 3.48%
 QC value greater than the upper limit for Zn 206.200 Recovery = 142.09%
 Zr 343.823† 154.6 0.0009 mg/L 0.00034 0.0009 mg/L 0.00034 38.28%
 QC Failed. Continue with analysis.

=====

Batch ID: OPTIMA 3

Sequence No.: 4

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 10:40:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153138.7	99.8 %	0.52	99.8 %	0.52	0.52%
Y axial	1999967.9	98.2 %	1.60	98.2 %	1.60	1.62%
Ag 328.068†	133015.1	2.663 mg/L	0.0779	2.663 mg/L	0.0779	2.93%
QC value within limits for Ag 328.068						Recovery = 106.52%
Al 396.153†	37993.3	9.980 mg/L	0.0202	9.980 mg/L	0.0202	0.20%
QC value within limits for Al 396.153						Recovery = 99.80%
As 188.979†	5621.1	4.898 mg/L	0.0759	4.898 mg/L	0.0759	1.55%
QC value within limits for As 188.979						Recovery = 97.96%
B 208.889†	33786.1	4.643 mg/L	0.0681	4.643 mg/L	0.0681	1.47%
QC value within limits for B 208.889						Recovery = 92.87%
Ba 233.527†	17165.4	4.977 mg/L	0.0374	4.977 mg/L	0.0374	0.75%
QC value within limits for Ba 233.527						Recovery = 99.54%
Be 313.107†	1357095.9	4.963 mg/L	0.1045	4.963 mg/L	0.1045	2.10%
QC value within limits for Be 313.107						Recovery = 99.27%
Ca 317.933†	58399.4	10.15 mg/L	0.007	10.15 mg/L	0.007	0.07%
QC value within limits for Ca 317.933						Recovery = 101.52%
Cd 228.802†	143737.0	4.983 mg/L	0.0038	4.983 mg/L	0.0038	0.08%
QC value within limits for Cd 228.802						Recovery = 99.65%
Co 228.616†	141941.9	5.080 mg/L	0.0088	5.080 mg/L	0.0088	0.17%
QC value within limits for Co 228.616						Recovery = 101.59%
Cr 267.716†	237462.5	5.040 mg/L	0.0101	5.040 mg/L	0.0101	0.20%
QC value within limits for Cr 267.716						Recovery = 100.81%
Cu 327.393†	506362.8	4.997 mg/L	0.0161	4.997 mg/L	0.0161	0.32%
QC value within limits for Cu 327.393						Recovery = 99.93%
Fe 238.204†	16891.3	5.026 mg/L	0.0227	5.026 mg/L	0.0227	0.45%
QC value within limits for Fe 238.204						Recovery = 100.51%
K 766.490†	20174.3	10.10 mg/L	0.022	10.10 mg/L	0.022	0.21%
QC value within limits for K 766.490						Recovery = 100.99%
Mg 285.213†	106543.2	10.11 mg/L	0.018	10.11 mg/L	0.018	0.18%
QC value within limits for Mg 285.213						Recovery = 101.13%
Mn 257.610†	115827.9	5.079 mg/L	0.0100	5.079 mg/L	0.0100	0.20%
QC value within limits for Mn 257.610						Recovery = 101.59%
Mo 202.031†	73187.1	5.100 mg/L	0.0245	5.100 mg/L	0.0245	0.48%
QC value within limits for Mo 202.031						Recovery = 102.00%
Na 589.592†	93494.6	9.991 mg/L	0.2007	9.991 mg/L	0.2007	2.01%
QC value within limits for Na 589.592						Recovery = 99.91%
Ni 231.604†	123261.3	5.178 mg/L	0.0190	5.178 mg/L	0.0190	0.37%
QC value within limits for Ni 231.604						Recovery = 103.57%
Pb 220.353†	18044.3	5.007 mg/L	0.0709	5.007 mg/L	0.0709	1.42%
QC value within limits for Pb 220.353						Recovery = 100.14%
Sb 206.836†	9421.1	4.922 mg/L	0.0705	4.922 mg/L	0.0705	1.43%
QC value within limits for Sb 206.836						Recovery = 98.44%
Se 196.026†	7919.3	4.920 mg/L	0.0714	4.920 mg/L	0.0714	1.45%
QC value within limits for Se 196.026						Recovery = 98.40%
Sn 189.927†	21611.6	4.977 mg/L	0.0742	4.977 mg/L	0.0742	1.49%

QC value within limits for Sn 189.927 Recovery = 99.55%
 Ti 337.279† 92554.7 5.021 mg/L 0.0052 5.021 mg/L 0.0052 0.10%
 QC value within limits for Ti 337.279 Recovery = 100.42%
 Tl 351.924† 8433.7 2.512 mg/L 0.0469 2.512 mg/L 0.0469 1.87%
 QC value within limits for Tl 351.924 Recovery = 100.49%
 V 290.880† 314397.5 5.163 mg/L 0.0117 5.163 mg/L 0.0117 0.23%
 QC value within limits for V 290.880 Recovery = 103.26%
 Zn 206.200† 98632.7 5.262 mg/L 0.0300 5.262 mg/L 0.0300 0.57%
 QC value within limits for Zn 206.200 Recovery = 105.23%
 Zr 343.823† 874889.9 5.073 mg/L 0.0141 5.073 mg/L 0.0141 0.28%
 All analyte(s) passed QC.

Batch ID: OPTIMA 3

Sequence No.: 5

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 11

Date Collected: 4/18/2024 10:47:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151367.9	98.7 %	0.78	98.7 %	0.78	0.79%
Y axial	1840921.8	90.4 %	0.61	90.4 %	0.61	0.68%
Ag 328.068†	2623.1	0.0555 mg/L	0.00081	0.0555 mg/L	0.00081	1.46%
QC value greater than the upper limit for Ag 328.068						Recovery = Not calculated
Al 396.153†	948179.5	255.0 mg/L	4.10	255.0 mg/L	4.10	1.61%
QC value within limits for Al 396.153						Recovery = 101.99%
As 188.979†	-14.4	0.0049 mg/L	0.00687	0.0049 mg/L	0.00687	139.10%
QC value within limits for As 188.979						Recovery = Not calculated
B 208.889†	104.6	0.0160 mg/L	0.00138	0.0160 mg/L	0.00138	8.61%
QC value within limits for B 208.889						Recovery = Not calculated
Ba 233.527†	22.8	0.0022 mg/L	0.00112	0.0022 mg/L	0.00112	50.45%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 313.107†	70.7	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.43%
QC value within limits for Be 313.107						Recovery = Not calculated
Ca 317.933†	1431055.3	248.8 mg/L	3.61	248.8 mg/L	3.61	1.45%
QC value within limits for Ca 317.933						Recovery = 99.51%
Cd 228.802†	1.1	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	48.37%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	21.9	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.61%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	-204.2	-0.0005 mg/L	0.00009	-0.0005 mg/L	0.00009	19.51%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 327.393†	8.9	0.0032 mg/L	0.00026	0.0032 mg/L	0.00026	8.24%
QC value within limits for Cu 327.393						Recovery = Not calculated
Fe 238.204†	336625.0	99.25 mg/L	1.687	99.25 mg/L	1.687	1.70%
QC value within limits for Fe 238.204						Recovery = 99.25%
K 766.490†	22.2	-0.0063 mg/L	0.07323	-0.0063 mg/L	0.07323	>999.9%
QC value within limits for K 766.490						Recovery = Not calculated
Mg 285.213†	2553278.7	242.2 mg/L	4.01	242.2 mg/L	4.01	1.66%
QC value within limits for Mg 285.213						Recovery = 96.90%
Mn 257.610†	119.9	0.0070 mg/L	0.00207	0.0070 mg/L	0.00207	29.49%
QC value within limits for Mn 257.610						Recovery = Not calculated
Mo 202.031†	-255.1	-0.0157 mg/L	0.00088	-0.0157 mg/L	0.00088	5.59%
QC value within limits for Mo 202.031						Recovery = Not calculated
Na 589.592†	397.0	0.0424 mg/L	0.01197	0.0424 mg/L	0.01197	28.22%
QC value within limits for Na 589.592						Recovery = Not calculated
Ni 231.604†	26.5	0.0011 mg/L	0.00042	0.0011 mg/L	0.00042	37.53%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	-72.8	-0.0031 mg/L	0.00090	-0.0031 mg/L	0.00090	29.11%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	3.1	-0.0058 mg/L	0.00383	-0.0058 mg/L	0.00383	66.30%
QC value within limits for Sb 206.836						Recovery = Not calculated
Se 196.026†	-249.2	-0.0272 mg/L	0.00161	-0.0272 mg/L	0.00161	5.92%
QC value within limits for Se 196.026						Recovery = Not calculated
Sn 189.927†	-2256.2	-0.0528 mg/L	0.00755	-0.0528 mg/L	0.00755	14.31%

No Ag
MJH 4-19-24

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -4.4 -0.0002 mg/L 0.00077 -0.0002 mg/L 0.00077 321.42%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -36.3 0.0006 mg/L 0.00232 0.0006 mg/L 0.00232 396.49%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 990.2 -0.0038 mg/L 0.00118 -0.0038 mg/L 0.00118 31.31%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† -8.9 0.0032 mg/L 0.00038 0.0032 mg/L 0.00038 12.03%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 656.9 0.0038 mg/L 0.00019 0.0038 mg/L 0.00019 4.94%
 QC Failed. Continue with analysis.

Batch ID: OPTIMA 3

Sequence No.: 6

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/18/2024 10:53:15 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150799.5	98.3 %	1.88	98.3 %	1.88	1.91%
Y axial	1850708.6	90.8 %	1.13	90.8 %	1.13	1.24%
Ag 328.068†	25697.3	0.5174 mg/L	0.01714	0.5174 mg/L	0.01714	3.31%
QC value greater than the upper limit for Ag 328.068						Recovery = 129.35%
Al 396.153†	954969.4	256.8 mg/L	0.37	256.8 mg/L	0.37	0.15%
QC value within limits for Al 396.153						Recovery = 102.72%
As 188.979†	204.1	0.2011 mg/L	0.00094	0.2011 mg/L	0.00094	0.47%
QC value within limits for As 188.979						Recovery = 100.53%
B 208.889†	67.1	0.0106 mg/L	0.00044	0.0106 mg/L	0.00044	4.18%
QC value within limits for B 208.889						Recovery = Not calculated
Ba 233.527†	3570.2	1.031 mg/L	0.0172	1.031 mg/L	0.0172	1.66%
QC value within limits for Ba 233.527						Recovery = 103.08%
Be 313.107†	274213.8	1.003 mg/L	0.0040	1.003 mg/L	0.0040	0.40%
QC value within limits for Be 313.107						Recovery = 100.32%
Ca 317.933†	1433621.6	249.2 mg/L	0.86	249.2 mg/L	0.86	0.34%
QC value within limits for Ca 317.933						Recovery = 99.69%
Cd 228.802†	58104.4	2.032 mg/L	0.0100	2.032 mg/L	0.0100	0.49%
QC value within limits for Cd 228.802						Recovery = 101.61%
Co 228.616†	26023.1	0.9303 mg/L	0.00465	0.9303 mg/L	0.00465	0.50%
QC value within limits for Co 228.616						Recovery = 93.03%
Cr 267.716†	45912.6	0.9784 mg/L	0.00136	0.9784 mg/L	0.00136	0.14%
QC value within limits for Cr 267.716						Recovery = 97.84%
Cu 327.393†	103299.5	1.021 mg/L	0.0035	1.021 mg/L	0.0035	0.35%
QC value within limits for Cu 327.393						Recovery = 102.07%
Fe 238.204†	338551.4	99.83 mg/L	0.445	99.83 mg/L	0.445	0.45%
QC value within limits for Fe 238.204						Recovery = 99.83%
K 766.490†	151.4	0.0582 mg/L	0.01044	0.0582 mg/L	0.01044	17.92%
QC value within limits for K 766.490						Recovery = Not calculated
Mg 285.213†	2579542.0	244.7 mg/L	0.32	244.7 mg/L	0.32	0.13%
QC value within limits for Mg 285.213						Recovery = 97.89%
Mn 257.610†	22268.1	0.9783 mg/L	0.02008	0.9783 mg/L	0.02008	2.05%
QC value within limits for Mn 257.610						Recovery = 97.83%
Mo 202.031†	-265.0	-0.0163 mg/L	0.00088	-0.0163 mg/L	0.00088	5.43%
QC value within limits for Mo 202.031						Recovery = Not calculated
Na 589.592†	371.3	0.0397 mg/L	0.00729	0.0397 mg/L	0.00729	18.37%
QC value within limits for Na 589.592						Recovery = Not calculated
Ni 231.604†	43971.9	1.848 mg/L	0.0076	1.848 mg/L	0.0076	0.41%
QC value within limits for Ni 231.604						Recovery = 92.41%
Pb 220.353†	262.1	0.0897 mg/L	0.00138	0.0897 mg/L	0.00138	1.54%
QC value within limits for Pb 220.353						Recovery = 89.73%
Sb 206.836†	2102.6	1.070 mg/L	0.0240	1.070 mg/L	0.0240	2.25%
QC value within limits for Sb 206.836						Recovery = 89.15%
Se 196.026†	544.2	0.4650 mg/L	0.01041	0.4650 mg/L	0.01041	2.24%
QC value within limits for Se 196.026						Recovery = 93.01%
Sn 189.927†	-2269.0	-0.0510 mg/L	0.00480	-0.0510 mg/L	0.00480	9.40%

No Ag
MJH 4-19-24

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 5.3 0.0003 mg/L 0.00017 0.0003 mg/L 0.00017 58.01%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 714.9 0.2251 mg/L 0.00310 0.2251 mg/L 0.00310 1.38%
 QC value within limits for Tl 351.924 Recovery = 112.57%
 V 290.880† 65024.5 1.023 mg/L 0.0037 1.023 mg/L 0.0037 0.36%
 QC value within limits for V 290.880 Recovery = 102.35%
 Zn 206.200† 35819.7 1.906 mg/L 0.0142 1.906 mg/L 0.0142 0.75%
 QC value within limits for Zn 206.200 Recovery = 95.31%
 Zr 343.823† 667.7 0.0039 mg/L 0.00012 0.0039 mg/L 0.00012 3.17%
 QC Failed. Continue with analysis.
 User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 11:22:13 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
 0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 11

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample):

Autosampler Location: 7

Date Collected: 4/18/2024 11:22:23 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	154703.9	101	%	1.72	101	%	1.72 1.70%
Y axial	2005565.5	98.4	%	0.71	98.4	%	0.71 0.72%
Ag 328.068†	81.4	0.0016	mg/L	0.00098	0.0016	mg/L	0.00098 60.31%
Al 396.153†	-28.0	-0.0075	mg/L	0.01515	-0.0075	mg/L	0.01515 201.18%
As 188.979†	3.8	0.0033	mg/L	0.00232	0.0033	mg/L	0.00232 70.79%
B 208.889†	31.4	0.0045	mg/L	0.00085	0.0045	mg/L	0.00085 18.68%
Ba 233.527†	6.0	0.0018	mg/L	0.00028	0.0018	mg/L	0.00028 15.76%
Be 313.107†	16.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002 32.97%
Ca 317.933†	0.6	0.0001	mg/L	0.00424	0.0001	mg/L	0.00424 >999.9%
Cd 228.802†	-2.0	-0.0001	mg/L	0.00008	-0.0001	mg/L	0.00008 71.60%
Co 228.616†	-12.7	-0.0005	mg/L	0.00025	-0.0005	mg/L	0.00025 55.41%
Cr 267.716†	-1.6	-0.0000	mg/L	0.00011	-0.0000	mg/L	0.00011 330.40%
Cu 327.393†	89.7	0.0009	mg/L	0.00036	0.0009	mg/L	0.00036 41.09%
Fe 238.204†	2.2	0.0006	mg/L	0.00141	0.0006	mg/L	0.00141 219.35%
K 766.490†	-38.8	-0.0194	mg/L	0.04371	-0.0194	mg/L	0.04371 224.84%
Mg 285.213†	9.2	0.0009	mg/L	0.00048	0.0009	mg/L	0.00048 54.89%
Mn 257.610†	-2.7	-0.0001	mg/L	0.00057	-0.0001	mg/L	0.00057 480.06%
Mo 202.031†	0.4	0.0000	mg/L	0.00019	0.0000	mg/L	0.00019 708.84%
Na 589.592†	-66.1	-0.0071	mg/L	0.00815	-0.0071	mg/L	0.00815 115.32%
Ni 231.604†	-3.4	-0.0001	mg/L	0.00025	-0.0001	mg/L	0.00025 176.94%
Pb 220.353†	9.8	0.0027	mg/L	0.00040	0.0027	mg/L	0.00040 14.92%
Sb 206.836†	6.7	0.0035	mg/L	0.00293	0.0035	mg/L	0.00293 83.62%
Se 196.026†	0.7	0.0005	mg/L	0.00254	0.0005	mg/L	0.00254 564.20%
Sn 189.927†	6.1	0.0014	mg/L	0.00110	0.0014	mg/L	0.00110 79.17%
Ti 337.279†	12.2	0.0007	mg/L	0.00027	0.0007	mg/L	0.00027 40.77%
Tl 351.924†	-25.9	-0.0076	mg/L	0.02128	-0.0076	mg/L	0.02128 278.58%
V 290.880†	23.1	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020 53.29%
Zn 206.200†	33.5	0.0018	mg/L	0.00012	0.0018	mg/L	0.00012 6.59%
Zr 343.823†	-2.3	-0.0000	mg/L	0.00005	-0.0000	mg/L	0.00005 392.46%

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 11:29:44 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Method Loaded

Method Name: ICP3 012424_IEC*

Method Last Saved: 4/18/2024 10:30:25 AM

IEC File: 011224.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

Batch ID: OPTIMA 3

Sequence No.: 7

Autosampler Location: 13

Sample ID: SEQ-LCV@RR

Date Collected: 4/18/2024 11:29:55 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	152288.6	99.3 %	1.39	99.3 %	1.39	1.40%
Y axial	2000728.4	98.2 %	1.31	98.2 %	1.31	1.34%
Ag 328.068†	242.8	0.0049 mg/L	0.00038	0.0049 mg/L	0.00038	7.81%
Al 396.153†	5.7	0.0011 mg/L	0.01182	0.0011 mg/L	0.01182	>999.9%
As 188.979†	12.2	0.0106 mg/L	0.00408	0.0106 mg/L	0.00408	38.38%
B 208.889†	89.4	0.0124 mg/L	0.00053	0.0124 mg/L	0.00053	4.23%
Ba 233.527†	40.3	0.0117 mg/L	0.00078	0.0117 mg/L	0.00078	6.69%
Be 313.107†	2683.0	0.0098 mg/L	0.00013	0.0098 mg/L	0.00013	1.31%
Ca 317.933†	60.4	0.0105 mg/L	0.00276	0.0105 mg/L	0.00276	26.27%

No Pb
MJH 4-19-24

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
Y radial	153342.1	100.0	%	0.56	100.0	%	0.56	0.56%
Y axial	1991595.0	97.8	%	1.46	97.8	%	1.46	1.50%
Ag 328.068†	-26.0	0.0011	mg/L	0.00100	0.0011	mg/L	0.00100	93.60%
Al 396.153†	389052.9	104.7	mg/L	0.07	104.7	mg/L	0.07	0.07%
QC value	within limits	for Al 396.153	Recovery =	104.69%				
As 188.979†	110494.4	97.00	mg/L	0.304	97.00	mg/L	0.304	0.31%
QC value	within limits	for As 188.979	Recovery =	97.00%				
B 208.889†	-124.5	-0.0143	mg/L	0.00109	-0.0143	mg/L	0.00109	7.59%
Ba 233.527†	347325.0	100.7	mg/L	1.65	100.7	mg/L	1.65	1.64%
QC value	within limits	for Ba 233.527	Recovery =	100.70%				
Be 313.107†	26454498.4	96.77	mg/L	0.251	96.77	mg/L	0.251	0.26%
QC value	within limits	for Be 313.107	Recovery =	96.77%				
Ca 317.933†	581.1	0.0718	mg/L	0.01048	0.0718	mg/L	0.01048	14.60%
Cd 228.802†	2423050.0	83.87	mg/L	0.200	83.87	mg/L	0.200	0.24%
QC value	less than the	lower limit for Cd 228.802	Recovery =	83.87%				
Co 228.616†	2795857.6	100.0	mg/L	0.12	100.0	mg/L	0.12	0.12%
QC value	within limits	for Co 228.616	Recovery =	100.02%				
Cr 267.716†	4587063.8	97.37	mg/L	1.747	97.37	mg/L	1.747	1.79%
QC value	within limits	for Cr 267.716	Recovery =	97.37%				

Cu 327.393†	10612330.0	104.5 mg/L	1.92	104.5 mg/L	1.92	1.84%
QC value within limits for Cu 327.393 Recovery = 104.55%						
Fe 238.204†	344032.6	102.3 mg/L	0.03	102.3 mg/L	0.03	0.03%
QC value within limits for Fe 238.204 Recovery = 102.33%						
K 766.490†	-21.4	-0.0286 mg/L	0.10403	-0.0286 mg/L	0.10403	364.26%
Mg 285.213†	-1742.6	0.0024 mg/L	0.00252	0.0024 mg/L	0.00252	104.81%
Mn 257.610†	2303688.1	101.0 mg/L	0.14	101.0 mg/L	0.14	0.14%
QC value within limits for Mn 257.610 Recovery = 101.02%						
Mo 202.031†	-1099.8	-0.0580 mg/L	0.00147	-0.0580 mg/L	0.00147	2.53%
Na 589.592†	237.4	0.0254 mg/L	0.00557	0.0254 mg/L	0.00557	21.97%
Ni 231.604†	2381171.3	100.00 mg/L	0.284	100.00 mg/L	0.284	0.28%
QC value within limits for Ni 231.604 Recovery = 100.00%						
Pb 220.353†	358933.4	99.44 mg/L	0.319	99.44 mg/L	0.319	0.32%
QC value within limits for Pb 220.353 Recovery = 99.44%						
Sb 206.836†	3102.1	-0.1342 mg/L	0.01850	-0.1342 mg/L	0.01850	13.79%
Se 196.026†	165543.9	102.9 mg/L	0.60	102.9 mg/L	0.60	0.58%
QC value within limits for Se 196.026 Recovery = 102.85%						
Sn 189.927†	2.1	0.0002 mg/L	0.00214	0.0002 mg/L	0.00214	>999.9%
Ti 337.279†	-196.8	-0.0107 mg/L	0.00122	-0.0107 mg/L	0.00122	11.42%
Tl 351.924†	376828.2	111.3 mg/L	0.14	111.3 mg/L	0.14	0.12%
QC value greater than the upper limit for Tl 351.924 Recovery = 111.32%						
V 290.880†	6514522.7	104.5 mg/L	1.89	104.5 mg/L	1.89	1.81%
QC value within limits for V 290.880 Recovery = 104.50%						
Zn 206.200†	1872861.9	99.94 mg/L	0.427	99.94 mg/L	0.427	0.43%
QC value within limits for Zn 206.200 Recovery = 99.94%						
Zr 343.823†	-488.6	-0.0028 mg/L	0.00023	-0.0028 mg/L	0.00023	8.09%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 9

Sample ID: SEQ-HCV2@500/100

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 36

Date Collected: 4/18/2024 11:44:57 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147191.4	95.9 %	0.20	95.9 %	0.20	0.21%
Y axial	1691019.0	83.0 %	0.90	83.0 %	0.90	1.09%
Ag 328.068†	-870.3	-0.0033 mg/L	0.00110	-0.0033 mg/L	0.00110	33.37%
Al 396.153†	1970170.5	529.8 mg/L	10.48	529.8 mg/L	10.48	1.98%
QC value within limits for Al 396.153 Recovery = 105.96%						
As 188.979†	-87.5	-0.0246 mg/L	0.00973	-0.0246 mg/L	0.00973	39.60%
B 208.889†	640797.1	92.76 mg/L	0.133	92.76 mg/L	0.133	0.14%
Ba 233.527†	69.7	-0.0007 mg/L	0.00091	-0.0007 mg/L	0.00091	130.88%
Be 313.107†	305.7	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.37%
Ca 317.933†	2870038.2	498.8 mg/L	1.96	498.8 mg/L	1.96	0.39%
QC value within limits for Ca 317.933 Recovery = 99.77%						
Cd 228.802†	110.6	0.0048 mg/L	0.00017	0.0048 mg/L	0.00017	3.62%
Co 228.616†	145.8	0.0051 mg/L	0.00017	0.0051 mg/L	0.00017	3.45%
Cr 267.716†	-939.5	-0.0016 mg/L	0.00114	-0.0016 mg/L	0.00114	72.48%
Cu 327.393†	9028.3	0.1036 mg/L	0.00349	0.1036 mg/L	0.00349	3.37%
Fe 238.204†	1606589.8	473.7 mg/L	1.92	473.7 mg/L	1.92	0.41%
QC value within limits for Fe 238.204 Recovery = 94.74%						
K 766.490†	418353.5	209.4 mg/L	0.67	209.4 mg/L	0.67	0.32%
QC value within limits for K 766.490 Recovery = 104.68%						
Mg 285.213†	2144579.3	203.7 mg/L	0.64	203.7 mg/L	0.64	0.31%
QC value within limits for Mg 285.213 Recovery = 101.85%						
Mn 257.610†	117.9	0.0136 mg/L	0.00035	0.0136 mg/L	0.00035	2.54%
Mo 202.031†	-1057.7	-0.0456 mg/L	0.00214	-0.0456 mg/L	0.00214	4.69%
Na 589.592†	4791385.9	512.0 mg/L	9.81	512.0 mg/L	9.81	1.92%
QC value within limits for Na 589.592 Recovery = 102.41%						
Ni 231.604†	49.0	0.0021 mg/L	0.00037	0.0021 mg/L	0.00037	18.06%
Pb 220.353†	-106.5	-0.0069 mg/L	0.00098	-0.0069 mg/L	0.00098	14.24%
Sb 206.836†	21.1	-0.0035 mg/L	0.00680	-0.0035 mg/L	0.00680	195.27%
Se 196.026†	-1256.9	-0.1974 mg/L	0.00699	-0.1974 mg/L	0.00699	3.54%

Sn 189.927†	-2291.4	-0.1245 mg/L	0.00928	-0.1245 mg/L	0.00928	7.45%
Ti 337.279†	12.8	0.0007 mg/L	0.00087	0.0007 mg/L	0.00087	124.82%
Tl 351.924†	-102.4	0.0913 mg/L	0.00662	0.0913 mg/L	0.00662	7.25%
V 290.880†	3322.5	0.0078 mg/L	0.00021	0.0078 mg/L	0.00021	2.74%
Zn 206.200†	993.0	-0.0067 mg/L	0.00308	-0.0067 mg/L	0.00308	46.03%
Zr 343.823†	3063.0	0.0178 mg/L	0.00009	0.0178 mg/L	0.00009	0.48%

All analyte(s) passed QC.

User canceled analysis.

S103420

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
B370708-BS1	QC		1			24D0241	
B370708-BLK1	QC		2			24D0241	
S103420-IFA1	QC		3		24C0959	24D0241	
S103420-IFB1	QC		4		24D0240	24D0241	
B370708-MS1	QC		5			24D0241	
B370708-MSD1	QC		6			24D0241	
B370708-SRL1	QC		7			24D0241	
24D0729-03	Cadmium 6010 Dissolved	D	8			24D0241	Field Filtered CAT B - Report to
24D0729-03	Chromium 6010 Dissolved	D	9			24D0241	Field Filtered CAT B - Report to
24D0729-01	Cadmium 6010 Dissolved	A	10			24D0241	Field Filtered CAT B - Report to
24D0729-01	Chromium 6010 Dissolved	A	11			24D0241	Field Filtered CAT B - Report to
24D0729-02	Cadmium 6010 Dissolved	B	12			24D0241	Field Filtered CAT B - Report to
24D0729-02	Chromium 6010 Dissolved	B	13			24D0241	Field Filtered CAT B - Report to
24D0729-04	Cadmium 6010 Dissolved	B	14			24D0241	Field Filtered CAT B - Report to
24D0729-04	Chromium 6010 Dissolved	B	15			24D0241	Field Filtered CAT B - Report to
24D0729-05	Cadmium 6010 Dissolved	B	16			24D0241	Field Filtered CAT B - Report to
24D0729-05	Chromium 6010 Dissolved	B	17			24D0241	Field Filtered CAT B - Report to
24D0729-06	Cadmium 6010 Dissolved	B	18			24D0241	Field Filtered CAT B - Report to
24D0729-06	Chromium 6010 Dissolved	B	19			24D0241	Field Filtered CAT B - Report to
24D0729-07	Cadmium 6010 Dissolved	B	20			24D0241	Field Filtered CAT B - Report to
24D0729-07	Chromium 6010 Dissolved	B	21			24D0241	Field Filtered CAT B - Report to
S103420-CCV1	QC		22		24D0029	24D0241	
S103420-CCB1	QC		23		23J0970	24D0241	
B371416-BLK2	QC		24			24D0241	Added 4/19/2024 by MJH
B371416-BS2	QC		25			24D0241	Added 4/19/2024 by MJH
B371416-BSD2	QC		26			24D0241	Added 4/19/2024 by MJH
B371416-MS2	QC		27			24D0241	Added 4/19/2024 by MJH
B371416-MSD2	QC		28			24D0241	Added 4/19/2024 by MJH
24D0735-04	Copper 6010 Total	A	29			24D0241	CAT B - Report to MDL
24D0735-04	Sodium 6010 Total	A	30			24D0241	CAT B - Report to MDL
24D0735-03	Copper 6010 Total	A	31			24D0241	CAT B - Report to MDL
24D0735-03	Sodium 6010 Total	A	32			24D0241	CAT B - Report to MDL
24D0735-05	Copper 6010 Total	A	33			24D0241	CAT B - Report to MDL

Samples Loaded By

Date

Data Processed By

Date

S103420

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-05	Sodium 6010 Total	A	34			24D0241	CAT B - Report to MDL
24D0735-06	Copper 6010 Total	A	35			24D0241	CAT B - Report to MDL
24D0735-06	Sodium 6010 Total	A	36			24D0241	CAT B - Report to MDL
24D0735-07	Copper 6010 Total	B	37			24D0241	CAT B - Report to MDL
24D0735-07	Sodium 6010 Total	B	38			24D0241	CAT B - Report to MDL
S103420-CCV2	QC		39		24D0029	24D0241	
S103420-CCB2	QC		40		23J0970	24D0241	
24D0735-08	Copper 6010 Total	A	41			24D0241	CAT B - Report to MDL
24D0735-08	Sodium 6010 Total	A	42			24D0241	CAT B - Report to MDL
24D0735-09	Copper 6010 Total	A	43			24D0241	CAT B - Report to MDL
24D0735-09	Sodium 6010 Total	A	44			24D0241	CAT B - Report to MDL
24D0735-10	Copper 6010 Total	A	45			24D0241	CAT B - Report to MDL
24D0735-10	Sodium 6010 Total	A	46			24D0241	CAT B - Report to MDL
24D0735-11	Copper 6010 Total	B	47			24D0241	CAT B - Report to MDL
24D0735-11	Sodium 6010 Total	B	48			24D0241	CAT B - Report to MDL
24D0735-12	Copper 6010 Total	B	49			24D0241	CAT B - Report to MDL
24D0735-12	Sodium 6010 Total	B	50			24D0241	CAT B - Report to MDL
24D0735-13	Copper 6010 Total	B	51			24D0241	CAT B - Report to MDL
24D0735-13	Sodium 6010 Total	B	52			24D0241	CAT B - Report to MDL
24D0735-14	Copper 6010 Total	B	53			24D0241	CAT B - Report to MDL
24D0735-14	Sodium 6010 Total	B	54			24D0241	CAT B - Report to MDL
24D0735-15	Copper 6010 Total	A	55			24D0241	CAT B - Report to MDL
24D0735-15	Sodium 6010 Total	A	56			24D0241	CAT B - Report to MDL
24D0735-15	Potassium 6010 Total	A	57			24D0241	CAT B - Report to MDL
24D0735-16	Copper 6010 Total	B	58			24D0241	CAT B - Report to MDL
24D0735-16	Sodium 6010 Total	B	59			24D0241	CAT B - Report to MDL
24D0735-16	Potassium 6010 Total	B	60			24D0241	CAT B - Report to MDL
24D0735-17	Copper 6010 Total	A	61			24D0241	CAT B - Report to MDL
24D0735-17	Sodium 6010 Total	A	62			24D0241	CAT B - Report to MDL
24D0735-17	Potassium 6010 Total	A	63			24D0241	CAT B - Report to MDL
S103420-CCV3	QC		64		24D0029	24D0241	
S103420-CCB3	QC		65		23J0970	24D0241	
B371351-BLK2	QC		66			24D0241	Added 4/19/2024 by MJH

Samples Loaded By

Date

Data Processed By

Date

S103420

Instrument: ICP3

Calibration ID: 2400450

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
B371351-BS2	QC		67			24D0241	Added 4/19/2024 by MJH
B371351-BSD2	QC		68			24D0241	
B371351-MS3	QC		69			24D0241	Added 4/19/2024 by MJH
B371351-MSD3	QC		70			24D0241	Added 4/19/2024 by MJH
24D1470-01	Zinc 6010 Total	J	71			24D0241	CAT B REPORT TO MDL
B371351-MS4	QC		72			24D0241	Added 4/19/2024 by MJH
B371351-MSD4	QC		73			24D0241	Added 4/19/2024 by MJH
24D1470-05	Zinc 6010 Total	J	74			24D0241	CAT B REPORT TO MDL
24D1470-02	Zinc 6010 Total	F	75			24D0241	CAT B REPORT TO MDL
S103420-CCV4	QC		76		24D0029	24D0241	
S103420-CCB4	QC		77		23J0970	24D0241	
24D1470-03	Zinc 6010 Total	F	78			24D0241	CAT B REPORT TO MDL
24D1470-04	Zinc 6010 Total	F	79			24D0241	CAT B REPORT TO MDL
24D1470-06	Sodium 6010 Total	F	80			24D0241	CAT B REPORT TO MDL
24D1470-06	Zinc 6010 Total	F	81			24D0241	CAT B REPORT TO MDL
24D1470-07	Sodium 6010 Total	F	82			24D0241	CAT B REPORT TO MDL
24D1470-07	Zinc 6010 Total	F	83			24D0241	CAT B REPORT TO MDL
24D1470-08	Sodium 6010 Total	F	84			24D0241	CAT B REPORT TO MDL
24D1470-08	Zinc 6010 Total	F	85			24D0241	CAT B REPORT TO MDL
24D1470-09	Sodium 6010 Total	F	86			24D0241	CAT B REPORT TO MDL
24D1470-09	Zinc 6010 Total	F	87			24D0241	CAT B REPORT TO MDL
24D1470-10	Sodium 6010 Total	F	88			24D0241	CAT B REPORT TO MDL
24D1470-10	Zinc 6010 Total	F	89			24D0241	CAT B REPORT TO MDL
24D1470-11	Sodium 6010 Total	F	90			24D0241	CAT B REPORT TO MDL
24D1470-11	Zinc 6010 Total	F	91			24D0241	CAT B REPORT TO MDL
S103420-IFA2	QC		92		24C0959	24D0241	
S103420-IFB2	QC		93		24D0240	24D0241	
S103420-CCV5	QC		94		24D0029	24D0241	
S103420-CCB5	QC		95		23J0970	24D0241	

Samples Loaded By

Date

Data Processed By

Date

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Analysis Begun

Start Time: 4/18/2024 11:51:54 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 11:52:04 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

User canceled analysis.

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Analysis Begun

Start Time: 4/18/2024 11:57:27 AM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 11

Autosampler Location: 7

Sample ID: RINSE

Date Collected: 4/18/2024 11:57:27 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

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Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155555.8	101	%	2.36	101	%	2.36	2.33%
Y axial	2005094.3	98.4	%	1.32	98.4	%	1.32	1.34%
Ag 328.068†	-41.6	-0.0008	mg/L	0.00143	-0.0008	mg/L	0.00143	172.27%
Al 396.153†	-1.3	-0.0003	mg/L	0.00238	-0.0003	mg/L	0.00238	727.30%
As 188.979†	9.5	0.0082	mg/L	0.00338	0.0082	mg/L	0.00338	41.16%
B 208.889†	2379.6	0.3445	mg/L	0.00936	0.3445	mg/L	0.00936	2.72%
Ba 233.527†	7.1	0.0021	mg/L	0.00099	0.0021	mg/L	0.00099	47.91%
Be 313.107†	38.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	18.38%
Ca 317.933†	1.4	0.0002	mg/L	0.00296	0.0002	mg/L	0.00296	>999.9%
Cd 228.802†	-0.6	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	90.40%
Co 228.616†	-11.2	-0.0004	mg/L	0.00005	-0.0004	mg/L	0.00005	12.17%
Cr 267.716†	22.7	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	7.38%
Cu 327.393†	3778.2	0.0372	mg/L	0.00073	0.0372	mg/L	0.00073	1.95%
Fe 238.204†	14.1	0.0042	mg/L	0.00073	0.0042	mg/L	0.00073	17.48%
K 766.490†	74.9	0.0375	mg/L	0.03803	0.0375	mg/L	0.03803	101.40%
Mg 285.213†	10.7	0.0010	mg/L	0.00043	0.0010	mg/L	0.00043	42.33%
Mn 257.610†	2.0	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	275.68%
Mo 202.031†	-3.0	-0.0002	mg/L	0.00042	-0.0002	mg/L	0.00042	196.52%
Na 589.592†	519.8	0.0555	mg/L	0.00508	0.0555	mg/L	0.00508	9.15%
Ni 231.604†	-2.1	-0.0001	mg/L	0.00033	-0.0001	mg/L	0.00033	381.66%
Pb 220.353†	17.6	0.0048	mg/L	0.00203	0.0048	mg/L	0.00203	41.83%
Sb 206.836†	1.7	0.0009	mg/L	0.00284	0.0009	mg/L	0.00284	314.79%

Se 196.026†	2.7	0.0017 mg/L	0.00348	0.0017 mg/L	0.00348	206.43%
Sn 189.927†	7.1	0.0016 mg/L	0.00108	0.0016 mg/L	0.00108	66.47%
Ti 337.279†	-12.8	-0.0007 mg/L	0.00357	-0.0007 mg/L	0.00357	513.40%
Tl 351.924†	-29.8	-0.0085 mg/L	0.00188	-0.0085 mg/L	0.00188	22.17%
V 290.880†	20.1	0.0003 mg/L	0.00025	0.0003 mg/L	0.00025	78.01%
Zn 206.200†	254.9	0.0135 mg/L	0.00084	0.0135 mg/L	0.00084	6.24%
Zr 343.823†	39.2	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	75.92%

Batch ID: OPTIMA 3

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 7

Date Collected: 4/18/2024 12:05:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153087.9	99.8	%	2.87	99.8	%	2.87	2.87%
Y axial	2032539.0	99.8	%	4.63	99.8	%	4.63	4.64%
Ag 328.068†	-51.3	-0.0010	mg/L	0.00014	-0.0010	mg/L	0.00014	13.58%
Al 396.153†	-1.4	-0.0004	mg/L	0.00286	-0.0004	mg/L	0.00286	751.80%
As 188.979†	8.4	0.0072	mg/L	0.00323	0.0072	mg/L	0.00323	44.63%
B 208.889†	1523.6	0.2205	mg/L	0.01284	0.2205	mg/L	0.01284	5.82%
Ba 233.527†	6.5	0.0019	mg/L	0.00151	0.0019	mg/L	0.00151	79.58%
Be 313.107†	36.2	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	33.93%
Ca 317.933†	4.5	0.0008	mg/L	0.00462	0.0008	mg/L	0.00462	584.75%
Cd 228.802†	-1.7	-0.0002	mg/L	0.00034	-0.0002	mg/L	0.00034	225.22%
Co 228.616†	-17.0	-0.0006	mg/L	0.00030	-0.0006	mg/L	0.00030	49.61%
Cr 267.716†	18.7	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	52.00%
Cu 327.393†	3005.3	0.0296	mg/L	0.00155	0.0296	mg/L	0.00155	5.25%
Fe 238.204†	10.4	0.0031	mg/L	0.00245	0.0031	mg/L	0.00245	80.02%
K 766.490†	51.4	0.0257	mg/L	0.02902	0.0257	mg/L	0.02902	112.72%
Mg 285.213†	18.2	0.0017	mg/L	0.00056	0.0017	mg/L	0.00056	32.59%
Mn 257.610†	-0.0	-0.0000	mg/L	0.00040	-0.0000	mg/L	0.00040	>999.9%
Mo 202.031†	0.2	0.0000	mg/L	0.00012	0.0000	mg/L	0.00012	830.45%
Na 589.592†	286.4	0.0306	mg/L	0.00143	0.0306	mg/L	0.00143	4.69%
Ni 231.604†	-8.9	-0.0004	mg/L	0.00048	-0.0004	mg/L	0.00048	127.40%
Pb 220.353†	14.1	0.0039	mg/L	0.00093	0.0039	mg/L	0.00093	23.91%
Sb 206.836†	4.6	0.0024	mg/L	0.00166	0.0024	mg/L	0.00166	69.77%
Se 196.026†	1.6	0.0010	mg/L	0.00539	0.0010	mg/L	0.00539	530.25%
Sn 189.927†	4.9	0.0011	mg/L	0.00064	0.0011	mg/L	0.00064	56.66%
Ti 337.279†	-11.3	-0.0006	mg/L	0.00141	-0.0006	mg/L	0.00141	228.95%
Tl 351.924†	-9.6	-0.0026	mg/L	0.00228	-0.0026	mg/L	0.00228	87.61%
V 290.880†	3.4	0.0001	mg/L	0.00067	0.0001	mg/L	0.00067	>999.9%
Zn 206.200†	174.0	0.0092	mg/L	0.00045	0.0092	mg/L	0.00045	4.87%
Zr 343.823†	48.3	0.0003	mg/L	0.00034	0.0003	mg/L	0.00034	121.87%

Batch ID: OPTIMA 3

Sequence No.: 13

Sample ID: B370708-MS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 38

Date Collected: 4/18/2024 12:12:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370708-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151250.0	98.6	%	1.21	98.6	%	1.21	1.23%
Y axial	1985854.3	97.5	%	1.35	97.5	%	1.35	1.39%
Ag 328.068†	120742.2	2.418	mg/L	0.0302	2.418	mg/L	0.0302	1.25%
Al 396.153†	8017.3	2.057	mg/L	0.0279	2.057	mg/L	0.0279	1.36%
As 188.979†	2266.3	1.977	mg/L	0.0366	1.977	mg/L	0.0366	1.85%
B 208.889†	28838.2	4.076	mg/L	0.0638	4.076	mg/L	0.0638	1.57%

Ba 233.527†	6947.2	2.014 mg/L	0.0243	2.014 mg/L	0.0243	1.21%
Be 313.107†	565529.8	2.069 mg/L	0.0690	2.069 mg/L	0.0690	3.34%
Ca 317.933†	197414.2	34.32 mg/L	1.206	34.32 mg/L	1.206	3.51%
Cd 228.802†	59540.7	2.064 mg/L	0.0104	2.064 mg/L	0.0104	0.51%
Co 228.616†	56151.5	2.009 mg/L	0.0132	2.009 mg/L	0.0132	0.66%
Cr 267.716†	95392.4	2.025 mg/L	0.0104	2.025 mg/L	0.0104	0.51%
Cu 327.393†	402193.3	3.966 mg/L	0.0174	3.966 mg/L	0.0174	0.44%
Fe 238.204†	56804.9	16.77 mg/L	0.178	16.77 mg/L	0.178	1.06%
K 766.490†	37341.3	18.69 mg/L	0.157	18.69 mg/L	0.157	0.84%
Mg 285.213†	215919.9	20.49 mg/L	0.647	20.49 mg/L	0.647	3.16%
Mn 257.610†	52230.6	2.291 mg/L	0.0236	2.291 mg/L	0.0236	1.03%
Mo 202.031†	29171.7	2.033 mg/L	0.0310	2.033 mg/L	0.0310	1.52%
Na 589.592†	392233.0	41.92 mg/L	1.275	41.92 mg/L	1.275	3.04%
Ni 231.604†	48108.2	2.021 mg/L	0.0097	2.021 mg/L	0.0097	0.48%
Pb 220.353†	7196.7	1.995 mg/L	0.0283	1.995 mg/L	0.0283	1.42%
Sb 206.836†	3963.9	2.068 mg/L	0.0334	2.068 mg/L	0.0334	1.61%
Se 196.026†	3377.7	2.115 mg/L	0.0357	2.115 mg/L	0.0357	1.69%
Sn 189.927†	8355.3	1.957 mg/L	0.0309	1.957 mg/L	0.0309	1.58%
Ti 337.279†	37257.4	2.021 mg/L	0.0167	2.021 mg/L	0.0167	0.82%
Tl 351.924†	7287.0	2.161 mg/L	0.0323	2.161 mg/L	0.0323	1.49%
V 290.880†	127799.9	2.096 mg/L	0.0060	2.096 mg/L	0.0060	0.28%
Zn 206.200†	79813.4	4.233 mg/L	0.0088	4.233 mg/L	0.0088	0.21%
Zr 343.823†	404.7	0.0023 mg/L	0.00053	0.0023 mg/L	0.00053	22.53%

Batch ID: OPTIMA 3

Sequence No.: 14

Sample ID: B370708-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 39

Date Collected: 4/18/2024 12:19:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B370708-MSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	154789.3	101 %		1.22	101 %	1.22	1.21%
Y axial	1962164.1	96.3 %		2.03	96.3 %	2.03	2.11%
Ag 328.068†	124236.7	2.488 mg/L		0.0075	2.488 mg/L	0.0075	0.30%
Al 396.153†	7700.1	1.972 mg/L		0.0131	1.972 mg/L	0.0131	0.67%
As 188.979†	2258.1	1.969 mg/L		0.0514	1.969 mg/L	0.0514	2.61%
B 208.889†	28627.0	4.045 mg/L		0.0881	4.045 mg/L	0.0881	2.18%
Ba 233.527†	6955.9	2.016 mg/L		0.0462	2.016 mg/L	0.0462	2.29%
Be 313.107†	546294.5	1.998 mg/L		0.0082	1.998 mg/L	0.0082	0.41%
Ca 317.933†	191960.5	33.37 mg/L		0.057	33.37 mg/L	0.057	0.17%
Cd 228.802†	58814.7	2.039 mg/L		0.0050	2.039 mg/L	0.0050	0.24%
Co 228.616†	55571.5	1.989 mg/L		0.0003	1.989 mg/L	0.0003	0.02%
Cr 267.716†	94216.1	2.000 mg/L		0.0029	2.000 mg/L	0.0029	0.15%
Cu 327.393†	397154.5	3.916 mg/L		0.0097	3.916 mg/L	0.0097	0.25%
Fe 238.204†	54693.3	16.14 mg/L		0.071	16.14 mg/L	0.071	0.44%
K 766.490†	36384.8	18.21 mg/L		0.027	18.21 mg/L	0.027	0.15%
Mg 285.213†	208094.1	19.75 mg/L		0.070	19.75 mg/L	0.070	0.35%
Mn 257.610†	50615.2	2.220 mg/L		0.0050	2.220 mg/L	0.0050	0.23%
Mo 202.031†	29152.1	2.032 mg/L		0.0460	2.032 mg/L	0.0460	2.26%
Na 589.592†	380215.0	40.63 mg/L		0.151	40.63 mg/L	0.151	0.37%
Ni 231.604†	47696.7	2.004 mg/L		0.0057	2.004 mg/L	0.0057	0.28%
Pb 220.353†	7211.0	1.999 mg/L		0.0436	1.999 mg/L	0.0436	2.18%
Sb 206.836†	3952.4	2.063 mg/L		0.0452	2.063 mg/L	0.0452	2.19%
Se 196.026†	3353.5	2.099 mg/L		0.0469	2.099 mg/L	0.0469	2.23%
Sn 189.927†	8331.8	1.950 mg/L		0.0429	1.950 mg/L	0.0429	2.20%
Ti 337.279†	35924.2	1.949 mg/L		0.0033	1.949 mg/L	0.0033	0.17%
Tl 351.924†	7266.0	2.155 mg/L		0.0475	2.155 mg/L	0.0475	2.21%
V 290.880†	126191.5	2.070 mg/L		0.0044	2.070 mg/L	0.0044	0.21%
Zn 206.200†	79079.3	4.194 mg/L		0.0114	4.194 mg/L	0.0114	0.27%
Zr 343.823†	230.4	0.0013 mg/L		0.00020	0.0013 mg/L	0.00020	15.18%

Batch ID: OPTIMA 3

Sequence No.: 15

Autosampler Location: 40

Sample ID: B370708-SRL1

Date Collected: 4/18/2024 12:26:34 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: B370708-SRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152283.5	99.3	%	0.63	99.3	%	0.63	0.64%
Y axial	2004673.5	98.4	%	1.73	98.4	%	1.73	1.76%
Ag 328.068†	151.9	0.0030	mg/L	0.00033	0.0030	mg/L	0.00033	10.76%
Al 396.153†	40.5	0.0102	mg/L	0.00899	0.0102	mg/L	0.00899	87.89%
As 188.979†	8.4	0.0073	mg/L	0.00319	0.0073	mg/L	0.00319	43.96%
B 208.889†	910.1	0.1317	mg/L	0.00396	0.1317	mg/L	0.00396	3.01%
Ba 233.527†	18.6	0.0054	mg/L	0.00103	0.0054	mg/L	0.00103	19.15%
Be 313.107†	28.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	13.22%
Ca 317.933†	20110.0	3.496	mg/L	0.0107	3.496	mg/L	0.0107	0.31%
Cd 228.802†	33.5	0.0011	mg/L	0.00024	0.0011	mg/L	0.00024	22.42%
Co 228.616†	-6.4	-0.0002	mg/L	0.00036	-0.0002	mg/L	0.00036	160.74%
Cr 267.716†	20.3	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	2.33%
Cu 327.393†	1748.6	0.0172	mg/L	0.00116	0.0172	mg/L	0.00116	6.73%
Fe 238.204†	231.1	0.0681	mg/L	0.00039	0.0681	mg/L	0.00039	0.57%
K 766.490†	900.9	0.4510	mg/L	0.01351	0.4510	mg/L	0.01351	2.99%
Mg 285.213†	8018.1	0.7597	mg/L	0.00052	0.7597	mg/L	0.00052	0.07%
Mn 257.610†	1184.0	0.0519	mg/L	0.00076	0.0519	mg/L	0.00076	1.46%
Mo 202.031†	17.3	0.0011	mg/L	0.00031	0.0011	mg/L	0.00031	27.82%
Na 589.592†	46257.6	4.943	mg/L	0.0107	4.943	mg/L	0.0107	0.22%
Ni 231.604†	-2.3	-0.0001	mg/L	0.00046	-0.0001	mg/L	0.00046	450.92%
Pb 220.353†	16.2	0.0045	mg/L	0.00041	0.0045	mg/L	0.00041	9.00%
Sb 206.836†	-1.4	-0.0008	mg/L	0.00281	-0.0008	mg/L	0.00281	357.82%
Se 196.026†	3.9	0.0023	mg/L	0.00116	0.0023	mg/L	0.00116	49.87%
Sn 189.927†	-20.3	-0.0031	mg/L	0.00161	-0.0031	mg/L	0.00161	51.97%
Ti 337.279†	11.8	0.0006	mg/L	0.00123	0.0006	mg/L	0.00123	193.11%
Tl 351.924†	-16.1	-0.0047	mg/L	0.00127	-0.0047	mg/L	0.00127	26.91%
V 290.880†	12.0	0.0002	mg/L	0.00042	0.0002	mg/L	0.00042	238.65%
Zn 206.200†	121.4	0.0060	mg/L	0.00019	0.0060	mg/L	0.00019	3.14%
Zr 343.823†	-20.9	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	57.72%

Batch ID: OPTIMA 3

Sequence No.: 16

Sample ID: 24D0729-01

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 41

Date Collected: 4/18/2024 12:34:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155109.5	101	%	0.37	101	%	0.37	0.37%
Y axial	1975857.8	97.0	%	0.70	97.0	%	0.70	0.72%
Ag 328.068†	-56.5	-0.0012	mg/L	0.00058	-0.0012	mg/L	0.00058	49.52%
Al 396.153†	121.0	0.0294	mg/L	0.00763	0.0294	mg/L	0.00763	25.92%
As 188.979†	3.6	0.0031	mg/L	0.00458	0.0031	mg/L	0.00458	147.83%
B 208.889†	875.1	0.1266	mg/L	0.00174	0.1266	mg/L	0.00174	1.37%
Ba 233.527†	82.1	0.0238	mg/L	0.00148	0.0238	mg/L	0.00148	6.23%
Be 313.107†	19.0	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	66.97%
Ca 317.933†	102885.3	17.89	mg/L	0.011	17.89	mg/L	0.011	0.06%
Cd 228.802†	143.2	0.0050	mg/L	0.00015	0.0050	mg/L	0.00015	3.04%
Co 228.616†	9.2	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	17.47%
Cr 267.716†	55.2	0.0011	mg/L	0.00013	0.0011	mg/L	0.00013	11.67%
Cu 327.393†	134.3	0.0013	mg/L	0.00039	0.0013	mg/L	0.00039	29.37%
Fe 238.204†	1127.9	0.3326	mg/L	0.00411	0.3326	mg/L	0.00411	1.24%
K 766.490†	4497.5	2.252	mg/L	0.0485	2.252	mg/L	0.0485	2.15%
Mg 285.213†	40719.7	3.858	mg/L	0.0420	3.858	mg/L	0.0420	1.09%
Mn 257.610†	5982.2	0.2622	mg/L	0.00204	0.2622	mg/L	0.00204	0.78%

Mo 202.031†	21.2	0.0010 mg/L	0.00064	0.0010 mg/L	0.00064	62.20%
Na 589.592†	237230.6	25.35 mg/L	0.012	25.35 mg/L	0.012	0.05%
Ni 231.604†	13.6	0.0005 mg/L	0.00036	0.0005 mg/L	0.00036	66.06%
Pb 220.353†	3.9	0.0013 mg/L	0.00076	0.0013 mg/L	0.00076	60.11%
Sb 206.836†	2.2	0.0008 mg/L	0.00297	0.0008 mg/L	0.00297	352.26%
Se 196.026†	-6.6	-0.0046 mg/L	0.00450	-0.0046 mg/L	0.00450	98.79%
Sn 189.927†	-130.2	-0.0219 mg/L	0.00194	-0.0219 mg/L	0.00194	8.82%
Ti 337.279†	10.1	0.0005 mg/L	0.00218	0.0005 mg/L	0.00218	396.51%
Tl 351.924†	-12.6	-0.0040 mg/L	0.01003	-0.0040 mg/L	0.01003	248.29%
V 290.880†	56.0	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	29.02%
Zn 206.200†	203.2	0.0085 mg/L	0.00008	0.0085 mg/L	0.00008	0.88%
Zr 343.823†	31.9	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	23.26%

Batch ID: OPTIMA 3

Sequence No.: 17

Sample ID: 24D0729-02

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

729-01

MJH 4-19-24

Autosampler Location: 42

Date Collected: 4/18/2024 12:40:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153607.2	100	%	1.54	100	%	1.54	1.53%
Y axial	2007995.2	98.6	%	1.85	98.6	%	1.85	1.88%
Ag 328.068†	-53.2	-0.0011	mg/L	0.00120	-0.0011	mg/L	0.00120	105.24%
Al 396.153†	33.9	0.0062	mg/L	0.00079	0.0062	mg/L	0.00079	12.72%
As 188.979†	1.8	0.0016	mg/L	0.00700	0.0016	mg/L	0.00700	450.45%
B 208.889†	732.6	0.1060	mg/L	0.00378	0.1060	mg/L	0.00378	3.57%
Ba 233.527†	89.5	0.0260	mg/L	0.00129	0.0260	mg/L	0.00129	4.99%
Be 313.107†	7.3	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	331.26%
Ca 317.933†	95855.3	16.67	mg/L	0.029	16.67	mg/L	0.029	0.17%
Cd 228.802†	73.9	0.0026	mg/L	0.00013	0.0026	mg/L	0.00013	5.00%
Co 228.616†	4.5	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	145.55%
Cr 267.716†	32.4	0.0006	mg/L	0.00015	0.0006	mg/L	0.00015	25.64%
Cu 327.393†	-82.3	-0.0008	mg/L	0.00038	-0.0008	mg/L	0.00038	47.02%
Fe 238.204†	698.4	0.2059	mg/L	0.00320	0.2059	mg/L	0.00320	1.55%
K 766.490†	4077.0	2.041	mg/L	0.0691	2.041	mg/L	0.0691	3.39%
Mg 285.213†	40878.4	3.874	mg/L	0.0556	3.874	mg/L	0.0556	1.43%
Mn 257.610†	8747.4	0.3835	mg/L	0.00380	0.3835	mg/L	0.00380	0.99%
Mo 202.031†	15.8	0.0007	mg/L	0.00033	0.0007	mg/L	0.00033	49.39%
Na 589.592†	239483.1	25.59	mg/L	0.029	25.59	mg/L	0.029	0.12%
Ni 231.604†	5.7	0.0002	mg/L	0.00040	0.0002	mg/L	0.00040	204.13%
Pb 220.353†	8.8	0.0026	mg/L	0.00245	0.0026	mg/L	0.00245	94.18%
Sb 206.836†	0.9	0.0001	mg/L	0.00101	0.0001	mg/L	0.00101	740.00%
Se 196.026†	-5.0	-0.0037	mg/L	0.00501	-0.0037	mg/L	0.00501	134.89%
Sn 189.927†	-139.9	-0.0242	mg/L	0.00081	-0.0242	mg/L	0.00081	3.35%
Ti 337.279†	-10.7	-0.0006	mg/L	0.00067	-0.0006	mg/L	0.00067	115.90%
Tl 351.924†	14.9	0.0041	mg/L	0.00187	0.0041	mg/L	0.00187	45.85%
V 290.880†	53.2	0.0007	mg/L	0.00026	0.0007	mg/L	0.00026	39.63%
Zn 206.200†	127.6	0.0045	mg/L	0.00038	0.0045	mg/L	0.00038	8.40%
Zr 343.823†	9.4	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	443.29%

Batch ID: OPTIMA 3

Sequence No.: 18

Sample ID: 24D0729-03

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

729-02

MJH 4-19-24

Autosampler Location: 43

Date Collected: 4/18/2024 12:46:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155183.0	101	%	0.74	101	%	0.74	0.73%

Y axial	2024413.6	99.4 %	0.64	99.4 %	0.64	0.64%
Ag 328.068†	-66.2	-0.0014 mg/L	0.00076	-0.0014 mg/L	0.00076	55.67%
Al 396.153†	47.6	0.0100 mg/L	0.00886	0.0100 mg/L	0.00886	88.64%
As 188.979†	7.3	0.0064 mg/L	0.00098	0.0064 mg/L	0.00098	15.30%
B 208.889†	638.5	0.0924 mg/L	0.00041	0.0924 mg/L	0.00041	0.44%
Ba 233.527†	96.9	0.0281 mg/L	0.00048	0.0281 mg/L	0.00048	1.71%
Be 313.107†	16.0	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	10.83%
Ca 317.933†	94567.2	16.44 mg/L	0.047	16.44 mg/L	0.047	0.29%
Cd 228.802†	57.5	0.0019 mg/L	0.00007	0.0019 mg/L	0.00007	3.50%
Co 228.616†	5.6	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	85.31%
Cr 267.716†	22.8	0.0004 mg/L	0.00032	0.0004 mg/L	0.00032	78.16%
Cu 327.393†	4.9	0.0001 mg/L	0.00024	0.0001 mg/L	0.00024	391.36%
Fe 238.204†	1176.1	0.3468 mg/L	0.00436	0.3468 mg/L	0.00436	1.26%
K 766.490†	3941.3	1.973 mg/L	0.0380	1.973 mg/L	0.0380	1.92%
Mg 285.213†	41041.8	3.889 mg/L	0.0071	3.889 mg/L	0.0071	0.18%
Mn 257.610†	6389.2	0.2801 mg/L	0.00381	0.2801 mg/L	0.00381	1.36%
Mo 202.031†	12.1	0.0004 mg/L	0.00030	0.0004 mg/L	0.00030	69.94%
Na 589.592†	227494.8	24.31 mg/L	0.029	24.31 mg/L	0.029	0.12%
Ni 231.604†	13.6	0.0005 mg/L	0.00016	0.0005 mg/L	0.00016	29.65%
Pb 220.353†	11.6	0.0034 mg/L	0.00170	0.0034 mg/L	0.00170	50.41%
Sb 206.836†	-0.7	-0.0007 mg/L	0.00362	-0.0007 mg/L	0.00362	537.87%
Se 196.026†	-4.2	-0.0030 mg/L	0.00255	-0.0030 mg/L	0.00255	85.79%
Sn 189.927†	-132.4	-0.0224 mg/L	0.00096	-0.0224 mg/L	0.00096	4.27%
Ti 337.279†	22.5	0.0012 mg/L	0.00092	0.0012 mg/L	0.00092	75.41%
Tl 351.924†	-43.3	-0.0131 mg/L	0.01236	-0.0131 mg/L	0.01236	94.55%
V 290.880†	56.8	0.0007 mg/L	0.00039	0.0007 mg/L	0.00039	55.47%
Zn 206.200†	119.5	0.0042 mg/L	0.00017	0.0042 mg/L	0.00017	4.00%
Zr 343.823†	46.2	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	34.61%

Batch ID: OPTIMA 3

Sequence No.: 19

Sample ID: 24D0729-04

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 44

Date Collected: 4/18/2024 12:52:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	157758.5	103 %		0.83	103 %	0.83	0.81%
Y axial	2012683.2	98.8 %		1.48	98.8 %	1.48	1.50%
Ag 328.068†	-59.8	-0.0012 mg/L		0.00058	-0.0012 mg/L	0.00058	47.40%
Al 396.153†	87.4	0.0202 mg/L		0.00555	0.0202 mg/L	0.00555	27.42%
As 188.979†	7.6	0.0067 mg/L		0.00370	0.0067 mg/L	0.00370	55.54%
B 208.889†	636.8	0.0922 mg/L		0.00143	0.0922 mg/L	0.00143	1.56%
Ba 233.527†	75.3	0.0218 mg/L		0.00073	0.0218 mg/L	0.00073	3.36%
Be 313.107†	15.2	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	30.10%
Ca 317.933†	110063.0	19.14 mg/L		0.017	19.14 mg/L	0.017	0.09%
Cd 228.802†	457.5	0.0159 mg/L		0.00033	0.0159 mg/L	0.00033	2.06%
Co 228.616†	-12.3	-0.0004 mg/L		0.00034	-0.0004 mg/L	0.00034	78.63%
Cr 267.716†	82.7	0.0017 mg/L		0.00016	0.0017 mg/L	0.00016	9.35%
Cu 327.393†	108.7	0.0011 mg/L		0.00046	0.0011 mg/L	0.00046	42.83%
Fe 238.204†	676.9	0.1996 mg/L		0.00078	0.1996 mg/L	0.00078	0.39%
K 766.490†	4703.7	2.355 mg/L		0.0616	2.355 mg/L	0.0616	2.62%
Mg 285.213†	40417.9	3.829 mg/L		0.0633	3.829 mg/L	0.0633	1.65%
Mn 257.610†	4428.8	0.1941 mg/L		0.00381	0.1941 mg/L	0.00381	1.96%
Mo 202.031†	9.6	0.0002 mg/L		0.00038	0.0002 mg/L	0.00038	216.27%
Na 589.592†	229432.4	24.52 mg/L		0.044	24.52 mg/L	0.044	0.18%
Ni 231.604†	17.6	0.0007 mg/L		0.00016	0.0007 mg/L	0.00016	21.74%
Pb 220.353†	7.8	0.0024 mg/L		0.00253	0.0024 mg/L	0.00253	106.62%
Sb 206.836†	-1.2	-0.0010 mg/L		0.00260	-0.0010 mg/L	0.00260	270.98%
Se 196.026†	-10.2	-0.0069 mg/L		0.00567	-0.0069 mg/L	0.00567	81.91%
Sn 189.927†	-137.2	-0.0235 mg/L		0.00293	-0.0235 mg/L	0.00293	12.46%
Ti 337.279†	20.0	0.0011 mg/L		0.00336	0.0011 mg/L	0.00336	310.65%
Tl 351.924†	-22.1	-0.0069 mg/L		0.02022	-0.0069 mg/L	0.02022	293.16%
V 290.880†	60.4	0.0008 mg/L		0.00024	0.0008 mg/L	0.00024	31.23%
Zn 206.200†	206.2	0.0088 mg/L		0.00031	0.0088 mg/L	0.00031	3.57%

Zr 343.823† 57.1 0.0003 mg/L 0.00021 0.0003 mg/L 0.00021 62.67%

Batch ID: OPTIMA 3

Sequence No.: 20

Sample ID: 24D0729-05

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 45

Date Collected: 4/18/2024 12:58:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153449.3	100	%	1.33	100	%	1.33	1.33%
Y axial	1996741.6	98.0	%	0.81	98.0	%	0.81	0.82%
Ag 328.068†	-73.4	-0.0015	mg/L	0.00079	-0.0015	mg/L	0.00079	52.57%
Al 396.153†	94.1	0.0219	mg/L	0.00582	0.0219	mg/L	0.00582	26.61%
As 188.979†	6.5	0.0057	mg/L	0.00043	0.0057	mg/L	0.00043	7.57%
B 208.889†	606.3	0.0877	mg/L	0.00160	0.0877	mg/L	0.00160	1.82%
Ba 233.527†	73.3	0.0212	mg/L	0.00029	0.0212	mg/L	0.00029	1.38%
Be 313.107†	15.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	64.87%
Ca 317.933†	115753.7	20.12	mg/L	0.134	20.12	mg/L	0.134	0.67%
Cd 228.802†	516.3	0.0180	mg/L	0.00023	0.0180	mg/L	0.00023	1.25%
Co 228.616†	0.6	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	316.90%
Cr 267.716†	135.1	0.0028	mg/L	0.00008	0.0028	mg/L	0.00008	2.93%
Cu 327.393†	61.6	0.0006	mg/L	0.00039	0.0006	mg/L	0.00039	63.26%
Fe 238.204†	623.5	0.1838	mg/L	0.00119	0.1838	mg/L	0.00119	0.65%
K 766.490†	5107.5	2.557	mg/L	0.0743	2.557	mg/L	0.0743	2.90%
Mg 285.213†	42337.1	4.011	mg/L	0.0475	4.011	mg/L	0.0475	1.19%
Mn 257.610†	4392.2	0.1925	mg/L	0.00279	0.1925	mg/L	0.00279	1.45%
Mo 202.031†	11.2	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	45.01%
Na 589.592†	232542.8	24.85	mg/L	0.089	24.85	mg/L	0.089	0.36%
Ni 231.604†	7.1	0.0003	mg/L	0.00028	0.0003	mg/L	0.00028	103.08%
Pb 220.353†	6.7	0.0021	mg/L	0.00298	0.0021	mg/L	0.00298	142.56%
Sb 206.836†	-4.0	-0.0024	mg/L	0.00374	-0.0024	mg/L	0.00374	154.97%
Se 196.026†	-9.1	-0.0063	mg/L	0.00200	-0.0063	mg/L	0.00200	31.59%
Sn 189.927†	-145.6	-0.0251	mg/L	0.00047	-0.0251	mg/L	0.00047	1.88%
Ti 337.279†	14.3	0.0008	mg/L	0.00172	0.0008	mg/L	0.00172	222.45%
Tl 351.924†	-15.9	-0.0051	mg/L	0.00129	-0.0051	mg/L	0.00129	25.23%
V 290.880†	75.2	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	7.05%
Zn 206.200†	223.8	0.0097	mg/L	0.00040	0.0097	mg/L	0.00040	4.12%
Zr 343.823†	6.7	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	296.24%

Batch ID: OPTIMA 3

Sequence No.: 21

Sample ID: 24D0729-06

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 46

Date Collected: 4/18/2024 1:04:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154571.6	101	%	2.47	101	%	2.47	2.45%
Y axial	2030826.0	99.7	%	1.71	99.7	%	1.71	1.71%
Ag 328.068†	-71.8	-0.0015	mg/L	0.00054	-0.0015	mg/L	0.00054	37.02%
Al 396.153†	103.9	0.0245	mg/L	0.00720	0.0245	mg/L	0.00720	29.31%
As 188.979†	4.4	0.0038	mg/L	0.00201	0.0038	mg/L	0.00201	52.55%
B 208.889†	571.2	0.0827	mg/L	0.00128	0.0827	mg/L	0.00128	1.55%
Ba 233.527†	63.9	0.0185	mg/L	0.00047	0.0185	mg/L	0.00047	2.55%
Be 313.107†	18.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	32.29%
Ca 317.933†	114422.9	19.89	mg/L	0.057	19.89	mg/L	0.057	0.28%
Cd 228.802†	25.6	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	11.11%
Co 228.616†	0.4	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	607.33%
Cr 267.716†	29.6	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	15.69%

Cu 327.393†	45.0	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	49.82%
Fe 238.204†	827.2	0.2439 mg/L	0.00576	0.2439 mg/L	0.00576	2.36%
K 766.490†	4812.0	2.409 mg/L	0.0767	2.409 mg/L	0.0767	3.18%
Mg 285.213†	42758.2	4.051 mg/L	0.1250	4.051 mg/L	0.1250	3.09%
Mn 257.610†	3968.0	0.1739 mg/L	0.00643	0.1739 mg/L	0.00643	3.70%
Mo 202.031†	9.3	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	117.60%
Na 589.592†	217336.2	23.23 mg/L	0.076	23.23 mg/L	0.076	0.33%
Ni 231.604†	12.4	0.0005 mg/L	0.00061	0.0005 mg/L	0.00061	121.76%
Pb 220.353†	8.7	0.0026 mg/L	0.00043	0.0026 mg/L	0.00043	16.42%
Sb 206.836†	1.6	0.0006 mg/L	0.00280	0.0006 mg/L	0.00280	503.52%
Se 196.026†	-17.5	-0.0114 mg/L	0.00454	-0.0114 mg/L	0.00454	39.67%
Sn 189.927†	-141.9	-0.0242 mg/L	0.00128	-0.0242 mg/L	0.00128	5.30%
Ti 337.279†	5.5	0.0003 mg/L	0.00117	0.0003 mg/L	0.00117	393.48%
Tl 351.924†	-24.6	-0.0077 mg/L	0.01073	-0.0077 mg/L	0.01073	139.72%
V 290.880†	53.1	0.0006 mg/L	0.00046	0.0006 mg/L	0.00046	71.59%
Zn 206.200†	270.1	0.0122 mg/L	0.00048	0.0122 mg/L	0.00048	3.93%
Zr 343.823†	42.1	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015	59.92%

Batch ID: OPTIMA 3

Sequence No.: 22

Sample ID: 24D0729-07

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 47

Date Collected: 4/18/2024 1:10:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0729-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154380.3	101	%	1.70	101	%	1.70	1.69%
Y axial	2009308.4	98.6	%	1.12	98.6	%	1.12	1.13%
Ag 328.068†	-58.3	-0.0012	mg/L	0.00091	-0.0012	mg/L	0.00091	75.67%
Al 396.153†	129.9	0.0315	mg/L	0.02086	0.0315	mg/L	0.02086	66.11%
As 188.979†	8.2	0.0072	mg/L	0.00242	0.0072	mg/L	0.00242	33.77%
B 208.889†	540.4	0.0782	mg/L	0.00188	0.0782	mg/L	0.00188	2.41%
Ba 233.527†	76.0	0.0220	mg/L	0.00083	0.0220	mg/L	0.00083	3.75%
Be 313.107†	7.2	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	322.33%
Ca 317.933†	114371.0	19.88	mg/L	0.040	19.88	mg/L	0.040	0.20%
Cd 228.802†	510.7	0.0178	mg/L	0.00041	0.0178	mg/L	0.00041	2.32%
Co 228.616†	-0.4	-0.0000	mg/L	0.00014	-0.0000	mg/L	0.00014	>999.9%
Cr 267.716†	117.7	0.0024	mg/L	0.00024	0.0024	mg/L	0.00024	9.71%
Cu 327.393†	-39.0	-0.0004	mg/L	0.00057	-0.0004	mg/L	0.00057	150.45%
Fe 238.204†	625.6	0.1845	mg/L	0.00322	0.1845	mg/L	0.00322	1.74%
K 766.490†	5004.5	2.505	mg/L	0.0196	2.505	mg/L	0.0196	0.78%
Mg 285.213†	41673.4	3.948	mg/L	0.0135	3.948	mg/L	0.0135	0.34%
Mn 257.610†	4364.3	0.1913	mg/L	0.00370	0.1913	mg/L	0.00370	1.93%
Mo 202.031†	9.0	0.0001	mg/L	0.00052	0.0001	mg/L	0.00052	465.45%
Na 589.592†	231306.5	24.72	mg/L	0.078	24.72	mg/L	0.078	0.32%
Ni 231.604†	21.8	0.0009	mg/L	0.00021	0.0009	mg/L	0.00021	23.50%
Pb 220.353†	5.5	0.0018	mg/L	0.00082	0.0018	mg/L	0.00082	47.09%
Sb 206.836†	-0.5	-0.0006	mg/L	0.00094	-0.0006	mg/L	0.00094	154.49%
Se 196.026†	-5.9	-0.0043	mg/L	0.00256	-0.0043	mg/L	0.00256	58.83%
Sn 189.927†	-136.2	-0.0231	mg/L	0.00092	-0.0231	mg/L	0.00092	3.97%
Ti 337.279†	7.8	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	30.36%
Tl 351.924†	-26.6	-0.0082	mg/L	0.01660	-0.0082	mg/L	0.01660	201.24%
V 290.880†	55.4	0.0007	mg/L	0.00033	0.0007	mg/L	0.00033	47.84%
Zn 206.200†	205.8	0.0087	mg/L	0.00015	0.0087	mg/L	0.00015	1.74%
Zr 343.823†	11.5	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	94.26%

Batch ID: OPTIMA 3

Sequence No.: 23

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

User canceled analysis.

Autosampler Location: 11

Date Collected: 4/18/2024 1:16:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Analysis Begun

Start Time: 4/18/2024 2:28:15 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 2:28:16 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 2:29:29 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====

Batch ID: OPTIMA 3

Sequence No.: 23

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23IJ0975

Date Collected: 4/18/2024 2:29:30 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

=====

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151991.4	99.1	%	0.33	99.1	%	0.33	0.34%
Y axial	1931905.7	94.8	%	0.58	94.8	%	0.58	0.62%
Ag 328.068†	125695.1	2.516	mg/L	0.0911	2.516	mg/L	0.0911	3.62%
QC value within limits for Ag 328.068				Recovery = 100.66%				
Al 396.153†	38510.7	10.12	mg/L	0.001	10.12	mg/L	0.001	0.01%
QC value within limits for Al 396.153				Recovery = 101.21%				
As 188.979†	5697.1	4.965	mg/L	0.0339	4.965	mg/L	0.0339	0.68%
QC value within limits for As 188.979				Recovery = 99.29%				
B 208.889†	33971.9	4.673	mg/L	0.0343	4.673	mg/L	0.0343	0.73%
QC value within limits for B 208.889				Recovery = 93.46%				
Ba 233.527†	17743.9	5.145	mg/L	0.0412	5.145	mg/L	0.0412	0.80%
QC value within limits for Ba 233.527				Recovery = 102.89%				
Be 313.107†	1342401.4	4.909	mg/L	0.0760	4.909	mg/L	0.0760	1.55%
QC value within limits for Be 313.107				Recovery = 98.19%				
Ca 317.933†	58125.9	10.10	mg/L	0.016	10.10	mg/L	0.016	0.15%
QC value within limits for Ca 317.933				Recovery = 101.04%				
Cd 228.802†	144509.9	5.009	mg/L	0.0093	5.009	mg/L	0.0093	0.19%
QC value within limits for Cd 228.802				Recovery = 100.17%				
Co 228.616†	141019.9	5.047	mg/L	0.0114	5.047	mg/L	0.0114	0.23%
QC value within limits for Co 228.616				Recovery = 100.93%				
Cr 267.716†	236947.7	5.029	mg/L	0.0115	5.029	mg/L	0.0115	0.23%
QC value within limits for Cr 267.716				Recovery = 100.59%				

Cu 327.393†	509746.0	5.030 mg/L	0.0139	5.030 mg/L	0.0139	0.28%
QC value within limits for Cu 327.393		Recovery = 100.60%				
Fe 238.204†	16923.0	5.035 mg/L	0.0051	5.035 mg/L	0.0051	0.10%
QC value within limits for Fe 238.204		Recovery = 100.69%				
K 766.490†	20434.9	10.23 mg/L	0.020	10.23 mg/L	0.020	0.19%
QC value within limits for K 766.490		Recovery = 102.29%				
Mg 285.213†	107821.0	10.23 mg/L	0.014	10.23 mg/L	0.014	0.14%
QC value within limits for Mg 285.213		Recovery = 102.34%				
Mn 257.610†	116093.6	5.091 mg/L	0.0086	5.091 mg/L	0.0086	0.17%
QC value within limits for Mn 257.610		Recovery = 101.82%				
Mo 202.031†	72349.5	5.042 mg/L	0.0196	5.042 mg/L	0.0196	0.39%
QC value within limits for Mo 202.031		Recovery = 100.83%				
Na 589.592†	93649.9	10.01 mg/L	0.123	10.01 mg/L	0.123	1.23%
QC value within limits for Na 589.592		Recovery = 100.08%				
Ni 231.604†	120850.3	5.077 mg/L	0.0167	5.077 mg/L	0.0167	0.33%
QC value within limits for Ni 231.604		Recovery = 101.54%				
Pb 220.353†	18240.1	5.061 mg/L	0.0324	5.061 mg/L	0.0324	0.64%
QC value within limits for Pb 220.353		Recovery = 101.22%				
Sb 206.836†	9618.4	5.024 mg/L	0.0371	5.024 mg/L	0.0371	0.74%
QC value within limits for Sb 206.836		Recovery = 100.49%				
Se 196.026†	8027.5	4.987 mg/L	0.0317	4.987 mg/L	0.0317	0.64%
QC value within limits for Se 196.026		Recovery = 99.75%				
Sn 189.927†	22021.4	5.072 mg/L	0.0343	5.072 mg/L	0.0343	0.68%
QC value within limits for Sn 189.927		Recovery = 101.43%				
Ti 337.279†	92953.7	5.043 mg/L	0.0072	5.043 mg/L	0.0072	0.14%
QC value within limits for Ti 337.279		Recovery = 100.85%				
Tl 351.924†	8717.9	2.596 mg/L	0.0195	2.596 mg/L	0.0195	0.75%
QC value within limits for Tl 351.924		Recovery = 103.85%				
V 290.880†	314199.3	5.158 mg/L	0.0129	5.158 mg/L	0.0129	0.25%
QC value within limits for V 290.880		Recovery = 103.17%				
Zn 206.200†	95647.1	5.104 mg/L	0.0144	5.104 mg/L	0.0144	0.28%
QC value within limits for Zn 206.200		Recovery = 102.07%				
Zr 343.823†	870892.6	5.050 mg/L	0.0138	5.050 mg/L	0.0138	0.27%
All analyte(s) passed QC.						

Batch ID: OPTIMA 3

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 2:36:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

RR MJH 4-19-24

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	148880.2	97.1 %		1.20	97.1 %	1.20	1.24%
Y axial	2028920.4	99.6 %		1.03	99.6 %	1.03	1.04%
Ag 328.068†	2901.0	0.0581 mg/L		0.00083	0.0581 mg/L	0.00083	1.43%
QC value greater than the upper limit for Ag 328.068		Recovery = Not calculated					
Al 396.153†	-49.3	-0.0133 mg/L		0.00396	-0.0133 mg/L	0.00396	29.78%
QC value within limits for Al 396.153		Recovery = Not calculated					
As 188.979†	7.5	0.0066 mg/L		0.00267	0.0066 mg/L	0.00267	40.59%
QC value within limits for As 188.979		Recovery = Not calculated					
B 208.889†	185.0	0.0268 mg/L		0.00140	0.0268 mg/L	0.00140	5.21%
QC value within limits for B 208.889		Recovery = Not calculated					
Ba 233.527†	4.3	0.0012 mg/L		0.00077	0.0012 mg/L	0.00077	62.26%
QC value within limits for Ba 233.527		Recovery = Not calculated					
Be 313.107†	17.4	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	49.35%
QC value within limits for Be 313.107		Recovery = Not calculated					
Ca 317.933†	17.7	0.0031 mg/L		0.00281	0.0031 mg/L	0.00281	91.36%
QC value within limits for Ca 317.933		Recovery = Not calculated					
Cd 228.802†	-0.7	-0.0001 mg/L		0.00012	-0.0001 mg/L	0.00012	111.72%
QC value within limits for Cd 228.802		Recovery = Not calculated					
Co 228.616†	-9.7	-0.0003 mg/L		0.00005	-0.0003 mg/L	0.00005	13.80%
QC value within limits for Co 228.616		Recovery = Not calculated					
Cr 267.716†	0.6	0.0000 mg/L		0.00022	0.0000 mg/L	0.00022	>999.9%
QC value within limits for Cr 267.716		Recovery = Not calculated					

Method: ICP3 012424_IEC*

Page 3

Date: 4/18/2024 2:47:52 PM

Cu 327.393†	1003.8	0.0099 mg/L	0.00021	0.0099 mg/L	0.00021	2.10%
QC value within limits for Cu 327.393		Recovery = Not calculated				
Fe 238.204†	2.0	0.0006 mg/L	0.00102	0.0006 mg/L	0.00102	172.72%
QC value within limits for Fe 238.204		Recovery = Not calculated				
K 766.490†	-7.7	-0.0039 mg/L	0.01270	-0.0039 mg/L	0.01270	329.71%
QC value within limits for K 766.490		Recovery = Not calculated				
Mg 285.213†	12.8	0.0012 mg/L	0.00097	0.0012 mg/L	0.00097	79.61%
QC value within limits for Mg 285.213		Recovery = Not calculated				
Mn 257.610†	-10.9	-0.0005 mg/L	0.00047	-0.0005 mg/L	0.00047	97.99%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	7.2	0.0005 mg/L	0.00040	0.0005 mg/L	0.00040	79.24%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592†	-49.6	-0.0053 mg/L	0.00903	-0.0053 mg/L	0.00903	170.44%
QC value within limits for Na 589.592		Recovery = Not calculated				
Ni 231.604†	-5.4	-0.0002 mg/L	0.00017	-0.0002 mg/L	0.00017	77.60%
QC value within limits for Ni 231.604		Recovery = Not calculated				
Pb 220.353†	8.1	0.0023 mg/L	0.00331	0.0023 mg/L	0.00331	146.79%
QC value within limits for Pb 220.353		Recovery = Not calculated				
Sb 206.836†	1.4	0.0008 mg/L	0.00305	0.0008 mg/L	0.00305	405.12%
QC value within limits for Sb 206.836		Recovery = Not calculated				
Se 196.026†	-4.3	-0.0027 mg/L	0.00271	-0.0027 mg/L	0.00271	100.38%
QC value within limits for Se 196.026		Recovery = Not calculated				
Sn 189.927†	5.4	0.0012 mg/L	0.00011	0.0012 mg/L	0.00011	8.55%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 337.279†	8.9	0.0005 mg/L	0.00114	0.0005 mg/L	0.00114	235.96%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 351.924†	-7.1	-0.0021 mg/L	0.00485	-0.0021 mg/L	0.00485	232.80%
QC value within limits for Tl 351.924		Recovery = Not calculated				
V 290.880†	-24.3	-0.0004 mg/L	0.00024	-0.0004 mg/L	0.00024	62.81%
QC value within limits for V 290.880		Recovery = Not calculated				
Zn 206.200†	57.4	0.0030 mg/L	0.00038	0.0030 mg/L	0.00038	12.59%
QC value within limits for Zn 206.200		Recovery = Not calculated				
Zr 343.823†	21.3	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	50.22%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 25

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 48

Date Collected: 4/18/2024 2:44:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151788.8	98.9	%	2.05	98.9	%	2.05	2.07%
Y axial	2000945.9	98.2	%	1.26	98.2	%	1.26	1.29%
Ag 328.068†	835.6	0.0167	mg/L	0.00054	0.0167	mg/L	0.00054	3.24%
Al 396.153†	1.5	0.0004	mg/L	0.01499	0.0004	mg/L	0.01499	>999.9%
As 188.979†	3.8	0.0033	mg/L	0.00314	0.0033	mg/L	0.00314	93.81%
B 208.889†	136.7	0.0198	mg/L	0.00090	0.0198	mg/L	0.00090	4.56%
Ba 233.527†	12.0	0.0035	mg/L	0.00309	0.0035	mg/L	0.00309	88.66%
Be 313.107†	4.0	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	370.84%
Ca 317.933†	92.3	0.0160	mg/L	0.00355	0.0160	mg/L	0.00355	22.10%
Cd 228.802†	-0.4	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	66.93%
Co 228.616†	-1.6	-0.0001	mg/L	0.00043	-0.0001	mg/L	0.00043	854.19%
Cr 267.716†	4.0	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	229.10%
Cu 327.393†	1449.6	0.0143	mg/L	0.00030	0.0143	mg/L	0.00030	2.10%
Fe 238.204†	8.7	0.0026	mg/L	0.00023	0.0026	mg/L	0.00023	8.97%
K 766.490†	84.4	0.0423	mg/L	0.04282	0.0423	mg/L	0.04282	101.33%
Mg 285.213†	27.5	0.0026	mg/L	0.00070	0.0026	mg/L	0.00070	26.84%
Mn 257.610†	-1.8	-0.0001	mg/L	0.00032	-0.0001	mg/L	0.00032	415.28%
Mo 202.031†	10.3	0.0007	mg/L	0.00011	0.0007	mg/L	0.00011	15.71%
Na 589.592†	93.9	0.0100	mg/L	0.00890	0.0100	mg/L	0.00890	88.74%
Ni 231.604†	7.2	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	31.47%
Pb 220.353†	2.1	0.0006	mg/L	0.00154	0.0006	mg/L	0.00154	269.43%
Sb 206.836†	5.3	0.0028	mg/L	0.00310	0.0028	mg/L	0.00310	112.01%

Method: ICP3 012424_IEC*

Page 4

Date: 4/18/2024 2:57:33 PM

Se 196.026†	1.9	0.0012 mg/L	0.00380	0.0012 mg/L	0.00380	318.93%
Sn 189.927†	10.3	0.0024 mg/L	0.00054	0.0024 mg/L	0.00054	22.67%
Ti 337.279†	-20.8	-0.0011 mg/L	0.00179	-0.0011 mg/L	0.00179	158.26%
Tl 351.924†	-3.8	-0.0011 mg/L	0.00202	-0.0011 mg/L	0.00202	182.87%
V 290.880†	-9.9	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	97.98%
Zn 206.200†	86.2	0.0046 mg/L	0.00029	0.0046 mg/L	0.00029	6.43%
Zr 343.823†	45.9	0.0003 mg/L	0.00022	0.0003 mg/L	0.00022	83.47%

Batch ID: OPTIMA 3

Sequence No.: 26

Sample ID: B371416-BS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 49

Date Collected: 4/18/2024 2:51:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152048.3	99.1	%	0.38	99.1	%	0.38	0.38%
Y axial	2014651.4	98.9	%	1.40	98.9	%	1.40	1.42%
Ag 328.068†	32116.9	0.6431	mg/L	0.01404	0.6431	mg/L	0.01404	2.18%
Al 396.153†	1965.2	0.5050	mg/L	0.00153	0.5050	mg/L	0.00153	0.30%
As 188.979†	540.3	0.4714	mg/L	0.01011	0.4714	mg/L	0.01011	2.14%
B 208.889†	6636.0	0.9365	mg/L	0.01882	0.9365	mg/L	0.01882	2.01%
Ba 233.527†	1716.2	0.4974	mg/L	0.00845	0.4974	mg/L	0.00845	1.70%
Be 313.107†	139090.0	0.5088	mg/L	0.00059	0.5088	mg/L	0.00059	0.12%
Ca 317.933†	23307.7	4.051	mg/L	0.0299	4.051	mg/L	0.0299	0.74%
Cd 228.802†	14427.1	0.5003	mg/L	0.00470	0.5003	mg/L	0.00470	0.94%
Co 228.616†	14084.4	0.5040	mg/L	0.00271	0.5040	mg/L	0.00271	0.54%
Cr 267.716†	23700.2	0.5032	mg/L	0.00551	0.5032	mg/L	0.00551	1.10%
Cu 327.393†	101478.0	1.001	mg/L	0.0078	1.001	mg/L	0.0078	0.78%
Fe 238.204†	13927.4	4.111	mg/L	0.0312	4.111	mg/L	0.0312	0.76%
K 766.490†	8234.6	4.122	mg/L	0.0438	4.122	mg/L	0.0438	1.06%
Mg 285.213†	43170.2	4.098	mg/L	0.0173	4.098	mg/L	0.0173	0.42%
Mn 257.610†	11580.6	0.5079	mg/L	0.00353	0.5079	mg/L	0.00353	0.70%
Mo 202.031†	7122.1	0.4965	mg/L	0.00360	0.4965	mg/L	0.00360	0.72%
Na 589.592†	38213.7	4.084	mg/L	0.0150	4.084	mg/L	0.0150	0.37%
Ni 231.604†	11973.3	0.5030	mg/L	0.00414	0.5030	mg/L	0.00414	0.82%
Pb 220.353†	1812.4	0.5025	mg/L	0.00850	0.5025	mg/L	0.00850	1.69%
Sb 206.836†	958.4	0.5002	mg/L	0.00834	0.5002	mg/L	0.00834	1.67%
Se 196.026†	784.7	0.4917	mg/L	0.00751	0.4917	mg/L	0.00751	1.53%
Sn 189.927†	2062.4	0.4810	mg/L	0.00970	0.4810	mg/L	0.00970	2.02%
Ti 337.279†	9248.9	0.5017	mg/L	0.00354	0.5017	mg/L	0.00354	0.70%
Tl 351.924†	1698.7	0.5040	mg/L	0.01677	0.5040	mg/L	0.01677	3.33%
V 290.880†	31214.5	0.5120	mg/L	0.00256	0.5120	mg/L	0.00256	0.50%
Zn 206.200†	19206.1	1.019	mg/L	0.0040	1.019	mg/L	0.0040	0.39%
Zr 343.823†	169.5	0.0010	mg/L	0.00009	0.0010	mg/L	0.00009	8.99%

User canceled analysis.

Analysis Begun

Start Time: 4/18/2024 2:57:23 PM

Originator: Optima8300

Spectrometer: Optima 8300 , S/N 078S1703073

Plasma On Time: 4/18/2024 8:09:32 AM

Technique: ICP Continuous

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Autosampler Location: 1

Date Collected: 4/18/2024 2:57:33 PM

Data Type: Original

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	150927.8	98.4	%	1.64	98.4	%	1.64	1.66%
Y axial	2018317.1	99.1	%	2.06	99.1	%	2.06	2.08%
Ag 328.068†	18.7	0.0004	mg/L	0.00042	0.0004	mg/L	0.00042	111.18%
QC value within limits for Ag 328.068								
Recovery =								
Al 396.153†	-46.8	-0.0126	mg/L	0.00786	-0.0126	mg/L	0.00786	62.41%
QC value within limits for Al 396.153								
Recovery =								
As 188.979†	5.2	0.0045	mg/L	0.00458	0.0045	mg/L	0.00458	101.55%
QC value within limits for As 188.979								
Recovery =								
B 208.889†	121.2	0.0175	mg/L	0.00063	0.0175	mg/L	0.00063	3.58%
QC value within limits for B 208.889								
Recovery =								
Ba 233.527†	-2.6	-0.0007	mg/L	0.00040	-0.0007	mg/L	0.00040	53.48%
QC value within limits for Ba 233.527								
Recovery =								
Be 313.107†	4.4	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	151.20%
QC value within limits for Be 313.107								
Recovery =								
Ca 317.933†	-5.9	-0.0010	mg/L	0.00343	-0.0010	mg/L	0.00343	335.07%
QC value within limits for Ca 317.933								
Recovery =								
Cd 228.802†	-2.4	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	77.26%
QC value within limits for Cd 228.802								
Recovery =								
Co 228.616†	-4.7	-0.0002	mg/L	0.00013	-0.0002	mg/L	0.00013	79.08%
QC value within limits for Co 228.616								
Recovery =								
Cr 267.716†	1.2	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	607.68%
QC value within limits for Cr 267.716								
Recovery =								
Cu 327.393†	610.2	0.0060	mg/L	0.00052	0.0060	mg/L	0.00052	8.57%
QC value within limits for Cu 327.393								
Recovery =								
Fe 238.204†	0.8	0.0002	mg/L	0.00039	0.0002	mg/L	0.00039	161.94%
QC value within limits for Fe 238.204								
Recovery =								
K 766.490†	78.2	0.0392	mg/L	0.04000	0.0392	mg/L	0.04000	102.15%
QC value within limits for K 766.490								
Recovery =								
Mg 285.213†	10.5	0.0010	mg/L	0.00029	0.0010	mg/L	0.00029	28.68%
QC value within limits for Mg 285.213								
Recovery =								
Mn 257.610†	-11.4	-0.0005	mg/L	0.00031	-0.0005	mg/L	0.00031	61.07%
QC value within limits for Mn 257.610								
Recovery =								
Mo 202.031†	4.7	0.0003	mg/L	0.00023	0.0003	mg/L	0.00023	69.57%
QC value within limits for Mo 202.031								
Recovery =								
Na 589.592†	-33.2	-0.0035	mg/L	0.00674	-0.0035	mg/L	0.00674	190.19%
QC value within limits for Na 589.592								
Recovery =								
Ni 231.604†	0.5	0.0000	mg/L	0.00030	0.0000	mg/L	0.00030	>999.9%
QC value within limits for Ni 231.604								
Recovery =								
Pb 220.353†	2.9	0.0008	mg/L	0.00190	0.0008	mg/L	0.00190	234.40%
QC value within limits for Pb 220.353								
Recovery =								
Sb 206.836†	0.7	0.0004	mg/L	0.00132	0.0004	mg/L	0.00132	362.23%
QC value within limits for Sb 206.836								
Recovery =								
Se 196.026†	-6.3	-0.0039	mg/L	0.00489	-0.0039	mg/L	0.00489	125.06%
QC value within limits for Se 196.026								
Recovery =								
Sn 189.927†	-0.1	-0.0000	mg/L	0.00146	-0.0000	mg/L	0.00146	>999.9%
QC value within limits for Sn 189.927								
Recovery =								
Ti 337.279†	7.2	0.0004	mg/L	0.00151	0.0004	mg/L	0.00151	385.87%
QC value within limits for Ti 337.279								
Recovery =								
Tl 351.924†	-3.9	-0.0011	mg/L	0.00236	-0.0011	mg/L	0.00236	207.19%
QC value within limits for Tl 351.924								
Recovery =								
V 290.880†	-19.3	-0.0003	mg/L	0.00058	-0.0003	mg/L	0.00058	192.25%
QC value within limits for V 290.880								
Recovery =								
Zn 206.200†	33.5	0.0018	mg/L	0.00057	0.0018	mg/L	0.00057	32.19%
QC value within limits for Zn 206.200								
Recovery =								
Zr 343.823†	27.1	0.0002	mg/L	0.00024	0.0002	mg/L	0.00024	150.31%
All analyte(s) passed QC.								

Batch ID: OPTIMA 3

Sequence No.: 25

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Autosampler Location: 48

Date Collected: 4/18/2024 3:05:19 PM

Data Type: Original

Initial Sample Vol:

Dilution:
Rinse Time (before sample): 220

Sample Prep Vol: **RR MJH 4-19-24**

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148985.1	97.1	%	0.70	97.1	%	0.70	0.73%
Y axial	2035573.4	99.9	%	0.37	99.9	%	0.37	0.37%
Ag 328.068†	-22.5	-0.0005	mg/L	0.00045	-0.0005	mg/L	0.00045	98.89%
Al 396.153†	-21.8	-0.0059	mg/L	0.01144	-0.0059	mg/L	0.01144	195.13%
As 188.979†	6.7	0.0058	mg/L	0.00353	0.0058	mg/L	0.00353	60.77%
B 208.889†	90.9	0.0132	mg/L	0.00072	0.0132	mg/L	0.00072	5.50%
Ba 233.527†	7.4	0.0022	mg/L	0.00117	0.0022	mg/L	0.00117	54.22%
Be 313.107†	0.7	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	>999.9%
Ca 317.933†	134.7	0.0234	mg/L	0.00263	0.0234	mg/L	0.00263	11.23%
Cd 228.802†	-3.6	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	26.97%
Co 228.616†	-7.4	-0.0003	mg/L	0.00023	-0.0003	mg/L	0.00023	87.38%
Cr 267.716†	3.9	0.0001	mg/L	0.00029	0.0001	mg/L	0.00029	349.63%
Cu 327.393†	1206.6	0.0119	mg/L	0.00067	0.0119	mg/L	0.00067	5.63%
Fe 238.204†	7.7	0.0023	mg/L	0.00143	0.0023	mg/L	0.00143	63.19%
K 766.490†	77.6	0.0388	mg/L	0.05768	0.0388	mg/L	0.05768	148.50%
Mg 285.213†	21.8	0.0021	mg/L	0.00061	0.0021	mg/L	0.00061	29.72%
Mn 257.610†	-1.9	-0.0001	mg/L	0.00023	-0.0001	mg/L	0.00023	276.83%
Mo 202.031†	-0.1	-0.0000	mg/L	0.00014	-0.0000	mg/L	0.00014	>999.9%
Na 589.592†	129.1	0.0138	mg/L	0.00346	0.0138	mg/L	0.00346	25.07%
Ni 231.604†	-9.5	-0.0004	mg/L	0.00042	-0.0004	mg/L	0.00042	105.92%
Pb 220.353†	2.1	0.0006	mg/L	0.00138	0.0006	mg/L	0.00138	245.23%
Sb 206.836†	-1.0	-0.0005	mg/L	0.00239	-0.0005	mg/L	0.00239	451.29%
Se 196.026†	1.3	0.0008	mg/L	0.00087	0.0008	mg/L	0.00087	110.27%
Sn 189.927†	3.4	0.0008	mg/L	0.00113	0.0008	mg/L	0.00113	144.74%
Ti 337.279†	17.0	0.0009	mg/L	0.00243	0.0009	mg/L	0.00243	263.91%
Tl 351.924†	-13.8	-0.0041	mg/L	0.00436	-0.0041	mg/L	0.00436	107.40%
V 290.880†	-21.8	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	27.33%
Zn 206.200†	64.7	0.0034	mg/L	0.00020	0.0034	mg/L	0.00020	5.89%
Zr 343.823†	50.3	0.0003	mg/L	0.00030	0.0003	mg/L	0.00030	104.15%

User canceled analysis.

Analysis Begun

Start Time: 4/18/2024 3:13:21 PM
Originator: Optima8300
Spectrometer: Optima 8300 , S/N 078S1703073

Plasma On Time: 4/18/2024 8:09:32 AM
Technique: ICP Continuous
Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

Batch ID: OPTIMA 3

Sequence No.: 25

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 48

Date Collected: 4/18/2024 3:13:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153805.7	100	%	1.65	100	%	1.65	1.64%
Y axial	2017892.9	99.0	%	1.00	99.0	%	1.00	1.01%
Ag 328.068†	-31.5	-0.0006	mg/L	0.00037	-0.0006	mg/L	0.00037	58.07%
Al 396.153†	-32.7	-0.0088	mg/L	0.00416	-0.0088	mg/L	0.00416	47.20%
As 188.979†	4.9	0.0043	mg/L	0.00188	0.0043	mg/L	0.00188	44.25%
B 208.889†	72.6	0.0105	mg/L	0.00055	0.0105	mg/L	0.00055	5.28%
Ba 233.527†	2.9	0.0008	mg/L	0.00031	0.0008	mg/L	0.00031	37.17%

Be 313.107†	5.5	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	95.29%
Ca 317.933†	107.4	0.0187	mg/L	0.00274	0.0187	mg/L	0.00274	14.68%
Cd 228.802†	-3.3	-0.0002	mg/L	0.00018	-0.0002	mg/L	0.00018	106.58%
Co 228.616†	-11.3	-0.0004	mg/L	0.00017	-0.0004	mg/L	0.00017	41.58%
Cr 267.716†	7.0	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	70.78%
Cu 327.393†	1087.3	0.0107	mg/L	0.00012	0.0107	mg/L	0.00012	1.14%
Fe 238.204†	10.4	0.0031	mg/L	0.00078	0.0031	mg/L	0.00078	25.25%
K 766.490†	48.0	0.0240	mg/L	0.02796	0.0240	mg/L	0.02796	116.33%
Mg 285.213†	5.6	0.0005	mg/L	0.00051	0.0005	mg/L	0.00051	97.38%
Mn 257.610†	5.4	0.0002	mg/L	0.00034	0.0002	mg/L	0.00034	146.95%
Mo 202.031†	7.3	0.0005	mg/L	0.00054	0.0005	mg/L	0.00054	106.36%
Na 589.592†	121.3	0.0130	mg/L	0.00691	0.0130	mg/L	0.00691	53.33%
Ni 231.604†	-11.8	-0.0005	mg/L	0.00034	-0.0005	mg/L	0.00034	69.01%
Pb 220.353†	6.4	0.0018	mg/L	0.00037	0.0018	mg/L	0.00037	20.59%
Sb 206.836†	-3.3	-0.0017	mg/L	0.00260	-0.0017	mg/L	0.00260	152.36%
Se 196.026†	-0.9	-0.0005	mg/L	0.00384	-0.0005	mg/L	0.00384	708.75%
Sn 189.927†	4.3	0.0010	mg/L	0.00121	0.0010	mg/L	0.00121	123.30%
Ti 337.279†	20.1	0.0011	mg/L	0.00204	0.0011	mg/L	0.00204	187.45%
Tl 351.924†	-17.2	-0.0050	mg/L	0.00258	-0.0050	mg/L	0.00258	51.03%
V 290.880†	-39.2	-0.0006	mg/L	0.00004	-0.0006	mg/L	0.00004	5.76%
Zn 206.200†	51.3	0.0027	mg/L	0.00043	0.0027	mg/L	0.00043	15.72%
Zr 343.823†	29.7	0.0002	mg/L	0.00025	0.0002	mg/L	0.00025	142.22%

Batch ID: OPTIMA 3

Sequence No.: 26

Sample ID: B371416-BS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 49

Date Collected: 4/18/2024 3:21:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	147860.9	96.4	%	2.59	96.4	%	2.59	2.69%
Y axial	2036841.9	100.0	%	2.06	100.0	%	2.06	2.06%
Ag 328.068†	31947.2	0.6397	mg/L	0.02018	0.6397	mg/L	0.02018	3.15%
Al 396.153†	2009.2	0.5170	mg/L	0.01810	0.5170	mg/L	0.01810	3.50%
As 188.979†	527.8	0.4604	mg/L	0.00925	0.4604	mg/L	0.00925	2.01%
B 208.889†	6500.7	0.9171	mg/L	0.01321	0.9171	mg/L	0.01321	1.44%
Ba 233.527†	1668.3	0.4835	mg/L	0.01121	0.4835	mg/L	0.01121	2.32%
Be 313.107†	136903.8	0.5008	mg/L	0.00198	0.5008	mg/L	0.00198	0.40%
Ca 317.933†	23596.3	4.101	mg/L	0.1438	4.101	mg/L	0.1438	3.51%
Cd 228.802†	14281.0	0.4953	mg/L	0.00854	0.4953	mg/L	0.00854	1.72%
Co 228.616†	13892.5	0.4971	mg/L	0.00847	0.4971	mg/L	0.00847	1.70%
Cr 267.716†	23460.5	0.4981	mg/L	0.01064	0.4981	mg/L	0.01064	2.14%
Cu 327.393†	100523.6	0.9912	mg/L	0.01707	0.9912	mg/L	0.01707	1.72%
Fe 238.204†	14096.2	4.161	mg/L	0.1304	4.161	mg/L	0.1304	3.13%
K 766.490†	8262.3	4.136	mg/L	0.0205	4.136	mg/L	0.0205	0.50%
Mg 285.213†	42786.4	4.062	mg/L	0.0007	4.062	mg/L	0.0007	0.02%
Mn 257.610†	11733.5	0.5146	mg/L	0.01580	0.5146	mg/L	0.01580	3.07%
Mo 202.031†	7064.7	0.4925	mg/L	0.00846	0.4925	mg/L	0.00846	1.72%
Na 589.592†	37909.2	4.051	mg/L	0.0108	4.051	mg/L	0.0108	0.27%
Ni 231.604†	11810.7	0.4961	mg/L	0.00620	0.4961	mg/L	0.00620	1.25%
Pb 220.353†	1774.5	0.4920	mg/L	0.00767	0.4920	mg/L	0.00767	1.56%
Sb 206.836†	942.5	0.4918	mg/L	0.00906	0.4918	mg/L	0.00906	1.84%
Se 196.026†	767.5	0.4810	mg/L	0.00661	0.4810	mg/L	0.00661	1.37%
Sn 189.927†	2009.9	0.4689	mg/L	0.00733	0.4689	mg/L	0.00733	1.56%
Ti 337.279†	9385.2	0.5091	mg/L	0.01531	0.5091	mg/L	0.01531	3.01%
Tl 351.924†	1680.6	0.4986	mg/L	0.00545	0.4986	mg/L	0.00545	1.09%
V 290.880†	30902.2	0.5069	mg/L	0.00886	0.5069	mg/L	0.00886	1.75%
Zn 206.200†	18947.1	1.006	mg/L	0.0119	1.006	mg/L	0.0119	1.19%
Zr 343.823†	98.9	0.0006	mg/L	0.00010	0.0006	mg/L	0.00010	18.06%

Batch ID: OPTIMA 3

Sequence No.: 27

Sample ID: B371416-BSD1

Autosampler Location: 50

Date Collected: 4/18/2024 3:29:07 PM

Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B371416-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	149801.0	97.7	%	1.13	97.7	%	1.13	1.15%
Y axial	2017325.5	99.0	%	0.11	99.0	%	0.11	0.11%
Ag 328.068†	31321.0	0.6271	mg/L	0.00698	0.6271	mg/L	0.00698	1.11%
Al 396.153†	1976.2	0.5081	mg/L	0.00915	0.5081	mg/L	0.00915	1.80%
As 188.979†	533.4	0.4653	mg/L	0.00338	0.4653	mg/L	0.00338	0.73%
B 208.889†	6595.0	0.9307	mg/L	0.00200	0.9307	mg/L	0.00200	0.22%
Ba 233.527†	1686.6	0.4889	mg/L	0.00307	0.4889	mg/L	0.00307	0.63%
Be 313.107†	137078.6	0.5014	mg/L	0.00116	0.5014	mg/L	0.00116	0.23%
Ca 317.933†	23141.4	4.022	mg/L	0.0470	4.022	mg/L	0.0470	1.17%
Cd 228.802†	14388.9	0.4991	mg/L	0.00085	0.4991	mg/L	0.00085	0.17%
Co 228.616†	14005.4	0.5012	mg/L	0.00099	0.5012	mg/L	0.00099	0.20%
Cr 267.716†	23536.3	0.4997	mg/L	0.00739	0.4997	mg/L	0.00739	1.48%
Cu 327.393†	100623.5	0.9922	mg/L	0.01219	0.9922	mg/L	0.01219	1.23%
Fe 238.204†	13917.7	4.108	mg/L	0.0487	4.108	mg/L	0.0487	1.19%
K 766.490†	8273.7	4.141	mg/L	0.0102	4.141	mg/L	0.0102	0.25%
Mg 285.213†	43105.8	4.092	mg/L	0.0457	4.092	mg/L	0.0457	1.12%
Mn 257.610†	11522.4	0.5054	mg/L	0.00539	0.5054	mg/L	0.00539	1.07%
Mo 202.031†	7076.6	0.4934	mg/L	0.00179	0.4934	mg/L	0.00179	0.36%
Na 589.592†	37829.4	4.043	mg/L	0.0049	4.043	mg/L	0.0049	0.12%
Ni 231.604†	11746.5	0.4934	mg/L	0.00784	0.4934	mg/L	0.00784	1.59%
Pb 220.353†	1768.6	0.4903	mg/L	0.00147	0.4903	mg/L	0.00147	0.30%
Sb 206.836†	948.6	0.4950	mg/L	0.00302	0.4950	mg/L	0.00302	0.61%
Se 196.026†	774.1	0.4851	mg/L	0.00109	0.4851	mg/L	0.00109	0.22%
Sn 189.927†	2024.8	0.4723	mg/L	0.00124	0.4723	mg/L	0.00124	0.26%
Ti 337.279†	9240.9	0.5013	mg/L	0.00530	0.5013	mg/L	0.00530	1.06%
Tl 351.924†	1699.8	0.5042	mg/L	0.00364	0.5042	mg/L	0.00364	0.72%
V 290.880†	30865.8	0.5063	mg/L	0.00680	0.5063	mg/L	0.00680	1.34%
Zn 206.200†	18876.8	1.002	mg/L	0.0157	1.002	mg/L	0.0157	1.57%
Zr 343.823†	73.1	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	13.36%

Batch ID: OPTIMA 3

Sequence No.: 28

Sample ID: B371416-MS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 51

Date Collected: 4/18/2024 3:36:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154738.7	101	%	1.36	101	%	1.36	1.34%
Y axial	1972082.4	96.8	%	0.31	96.8	%	0.31	0.32%
Ag 328.068†	31359.2	0.6279	mg/L	0.00970	0.6279	mg/L	0.00970	1.54%
Al 396.153†	2111.3	0.5394	mg/L	0.01206	0.5394	mg/L	0.01206	2.24%
As 188.979†	552.0	0.4819	mg/L	0.00639	0.4819	mg/L	0.00639	1.33%
B 208.889†	6938.5	0.9800	mg/L	0.00739	0.9800	mg/L	0.00739	0.75%
Ba 233.527†	1772.7	0.5137	mg/L	0.00265	0.5137	mg/L	0.00265	0.52%
Be 313.107†	137857.4	0.5042	mg/L	0.00120	0.5042	mg/L	0.00120	0.24%
Ca 317.933†	182437.0	31.72	mg/L	0.107	31.72	mg/L	0.107	0.34%
Cd 228.802†	14626.6	0.5072	mg/L	0.00266	0.5072	mg/L	0.00266	0.52%
Co 228.616†	14018.1	0.5017	mg/L	0.00316	0.5017	mg/L	0.00316	0.63%
Cr 267.716†	24010.0	0.5098	mg/L	0.00956	0.5098	mg/L	0.00956	1.88%
Cu 327.393†	104319.8	1.029	mg/L	0.0153	1.029	mg/L	0.0153	1.48%
Fe 238.204†	21182.4	6.250	mg/L	0.1355	6.250	mg/L	0.1355	2.17%
K 766.490†	9701.8	4.856	mg/L	0.0317	4.856	mg/L	0.0317	0.65%
Mg 285.213†	97438.0	9.240	mg/L	0.0100	9.240	mg/L	0.0100	0.11%
Mn 257.610†	15447.3	0.6774	mg/L	0.01488	0.6774	mg/L	0.01488	2.20%
Mo 202.031†	7205.0	0.5018	mg/L	0.00426	0.5018	mg/L	0.00426	0.85%

Na 589.592†	647764.1	69.22 mg/L	0.071	69.22 mg/L	0.071	0.10%
Ni 231.604†	11695.8	0.4913 mg/L	0.01327	0.4913 mg/L	0.01327	2.70%
Pb 220.353†	1749.3	0.4852 mg/L	0.00539	0.4852 mg/L	0.00539	1.11%
Sb 206.836†	967.5	0.5045 mg/L	0.00233	0.5045 mg/L	0.00233	0.46%
Se 196.026†	788.5	0.4954 mg/L	0.00569	0.4954 mg/L	0.00569	1.15%
Sn 189.927†	1886.7	0.4514 mg/L	0.00373	0.4514 mg/L	0.00373	0.83%
Ti 337.279†	8964.0	0.4863 mg/L	0.00991	0.4863 mg/L	0.00991	2.04%
Tl 351.924†	1708.8	0.5063 mg/L	0.00438	0.5063 mg/L	0.00438	0.87%
V 290.880†	31710.7	0.5197 mg/L	0.00909	0.5197 mg/L	0.00909	1.75%
Zn 206.200†	20830.3	1.099 mg/L	0.0282	1.099 mg/L	0.0282	2.56%
Zr 343.823†	106.9	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	5.18%

Batch ID: OPTIMA 3

Sequence No.: 29

Sample ID: B371416-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 52

Date Collected: 4/18/2024 3:44:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148544.6	96.8	%	3.33	96.8	%	3.33	3.44%
Y axial	1957160.4	96.1	%	0.87	96.1	%	0.87	0.90%
Ag 328.068†	31935.4	0.6395 mg/L		0.01013	0.6395 mg/L		0.01013	1.58%
Al 396.153†	2223.4	0.5694 mg/L		0.02085	0.5694 mg/L		0.02085	3.66%
As 188.979†	557.4	0.4867 mg/L		0.00549	0.4867 mg/L		0.00549	1.13%
B 208.889†	6965.7	0.9840 mg/L		0.00862	0.9840 mg/L		0.00862	0.88%
Ba 233.527†	1805.5	0.5232 mg/L		0.00534	0.5232 mg/L		0.00534	1.02%
Be 313.107†	142692.5	0.5220 mg/L		0.02090	0.5220 mg/L		0.02090	4.00%
Ca 317.933†	187827.8	32.65 mg/L		1.298	32.65 mg/L		1.298	3.98%
Cd 228.802†	14694.3	0.5095 mg/L		0.00418	0.5095 mg/L		0.00418	0.82%
Co 228.616†	14048.6	0.5027 mg/L		0.00530	0.5027 mg/L		0.00530	1.05%
Cr 267.716†	24177.0	0.5133 mg/L		0.00614	0.5133 mg/L		0.00614	1.20%
Cu 327.393†	104489.9	1.030 mg/L		0.0099	1.030 mg/L		0.0099	0.96%
Fe 238.204†	22235.5	6.561 mg/L		0.2382	6.561 mg/L		0.2382	3.63%
K 766.490†	10185.4	5.098 mg/L		0.2172	5.098 mg/L		0.2172	4.26%
Mg 285.213†	100905.8	9.569 mg/L		0.3860	9.569 mg/L		0.3860	4.03%
Mn 257.610†	16171.7	0.7092 mg/L		0.02470	0.7092 mg/L		0.02470	3.48%
Mo 202.031†	7192.4	0.5009 mg/L		0.00395	0.5009 mg/L		0.00395	0.79%
Na 589.592†	667150.3	71.29 mg/L		2.760	71.29 mg/L		2.760	3.87%
Ni 231.604†	11726.4	0.4926 mg/L		0.00529	0.4926 mg/L		0.00529	1.07%
Pb 220.353†	1764.7	0.4895 mg/L		0.00598	0.4895 mg/L		0.00598	1.22%
Sb 206.836†	978.3	0.5100 mg/L		0.00228	0.5100 mg/L		0.00228	0.45%
Se 196.026†	783.1	0.4924 mg/L		0.00754	0.4924 mg/L		0.00754	1.53%
Sn 189.927†	1913.6	0.4582 mg/L		0.00272	0.4582 mg/L		0.00272	0.59%
Ti 337.279†	9403.8	0.5101 mg/L		0.01734	0.5101 mg/L		0.01734	3.40%
Tl 351.924†	1732.0	0.5132 mg/L		0.00873	0.5132 mg/L		0.00873	1.70%
V 290.880†	31904.6	0.5227 mg/L		0.00556	0.5227 mg/L		0.00556	1.06%
Zn 206.200†	20976.8	1.107 mg/L		0.0142	1.107 mg/L		0.0142	1.28%
Zr 343.823†	139.9	0.0008 mg/L		0.00006	0.0008 mg/L		0.00006	7.74%

Batch ID: OPTIMA 3

Sequence No.: 30

Sample ID: 24D0735-04

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 53

Date Collected: 4/18/2024 3:52:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	153966.9	100	%	0.41	100	%	0.41	0.41%
Y axial	2009144.2	98.6	%	2.17	98.6	%	2.17	2.20%

Ag 328.068†	-37.2	-0.0007 mg/L	0.00055	-0.0007 mg/L	0.00055	76.13%
Al 396.153†	186.4	0.0453 mg/L	0.00818	0.0453 mg/L	0.00818	18.05%
As 188.979†	7.4	0.0069 mg/L	0.00339	0.0069 mg/L	0.00339	49.41%
B 208.889†	226.1	0.0326 mg/L	0.00190	0.0326 mg/L	0.00190	5.83%
Ba 233.527†	72.3	0.0209 mg/L	0.00100	0.0209 mg/L	0.00100	4.79%
Be 313.107†	-1.8	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	171.10%
Ca 317.933†	160776.8	27.95 mg/L	0.085	27.95 mg/L	0.085	0.30%
Cd 228.802†	27.6	0.0009 mg/L	0.00043	0.0009 mg/L	0.00043	48.22%
Co 228.616†	6.4	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	43.09%
Cr 267.716†	195.6	0.0042 mg/L	0.00019	0.0042 mg/L	0.00019	4.55%
Cu 327.393†	1135.8	0.0113 mg/L	0.00006	0.0113 mg/L	0.00006	0.53%
Fe 238.204†	7760.0	2.288 mg/L	0.0337	2.288 mg/L	0.0337	1.47%
K 766.490†	1817.6	0.9096 mg/L	0.01649	0.9096 mg/L	0.01649	1.81%
Mg 285.213†	54842.1	5.197 mg/L	0.0563	5.197 mg/L	0.0563	1.08%
Mn 257.610†	4426.6	0.1941 mg/L	0.00221	0.1941 mg/L	0.00221	1.14%
Mo 202.031†	41.0	0.0023 mg/L	0.00032	0.0023 mg/L	0.00032	13.77%
Na 589.592†	610571.3	65.25 mg/L	0.149	65.25 mg/L	0.149	0.23%
Ni 231.604†	28.3	0.0012 mg/L	0.00054	0.0012 mg/L	0.00054	45.86%
Pb 220.353†	0.8	0.0005 mg/L	0.00228	0.0005 mg/L	0.00228	496.48%
Sb 206.836†	4.3	0.0018 mg/L	0.00376	0.0018 mg/L	0.00376	213.51%
Se 196.026†	-8.0	-0.0035 mg/L	0.00587	-0.0035 mg/L	0.00587	169.98%
Sn 189.927†	-180.4	-0.0306 mg/L	0.00222	-0.0306 mg/L	0.00222	7.26%
Ti 337.279†	28.4	0.0015 mg/L	0.00134	0.0015 mg/L	0.00134	87.17%
Tl 351.924†	-8.6	-0.0031 mg/L	0.01293	-0.0031 mg/L	0.01293	411.65%
V 290.880†	106.0	0.0014 mg/L	0.00040	0.0014 mg/L	0.00040	29.81%
Zn 206.200†	1637.5	0.0807 mg/L	0.00198	0.0807 mg/L	0.00198	2.45%
Zr 343.823†	71.7	0.0004 mg/L	0.00013	0.0004 mg/L	0.00013	30.18%

Batch ID: OPTIMA 3

Sequence No.: 31

Sample ID: 24D0735-03

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 54

Date Collected: 4/18/2024 4:00:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151583.6	98.8	%	1.53	98.8	%	1.53	1.55%
Y axial	2004737.2	98.4	%	1.24	98.4	%	1.24	1.26%
Ag 328.068†	-15.4	-0.0005 mg/L		0.00018	-0.0005 mg/L		0.00018	37.44%
Al 396.153†	80.6	0.0175 mg/L		0.00674	0.0175 mg/L		0.00674	38.53%
As 188.979†	6.8	0.0065 mg/L		0.00368	0.0065 mg/L		0.00368	56.94%
B 208.889†	451.2	0.0653 mg/L		0.00107	0.0653 mg/L		0.00107	1.63%
Ba 233.527†	122.3	0.0353 mg/L		0.00021	0.0353 mg/L		0.00021	0.60%
Be 313.107†	14.9	0.0001 mg/L		0.00000	0.0001 mg/L		0.00000	7.84%
Ca 317.933†	145580.3	25.31 mg/L		0.091	25.31 mg/L		0.091	0.36%
Cd 228.802†	8.8	0.0003 mg/L		0.00028	0.0003 mg/L		0.00028	109.35%
Co 228.616†	193.2	0.0069 mg/L		0.00037	0.0069 mg/L		0.00037	5.39%
Cr 267.716†	16.7	0.0000 mg/L		0.00037	0.0000 mg/L		0.00037	780.51%
Cu 327.393†	1032.1	0.0103 mg/L		0.00132	0.0103 mg/L		0.00132	12.87%
Fe 238.204†	13366.6	3.941 mg/L		0.0218	3.941 mg/L		0.0218	0.55%
K 766.490†	5283.6	2.644 mg/L		0.0293	2.644 mg/L		0.0293	1.11%
Mg 285.213†	45214.2	4.286 mg/L		0.0057	4.286 mg/L		0.0057	0.13%
Mn 257.610†	31616.6	1.386 mg/L		0.0035	1.386 mg/L		0.0035	0.25%
Mo 202.031†	17.6	0.0009 mg/L		0.00043	0.0009 mg/L		0.00043	48.50%
Na 589.592†	146854.6	15.69 mg/L		0.034	15.69 mg/L		0.034	0.22%
Ni 231.604†	23.7	0.0008 mg/L		0.00037	0.0008 mg/L		0.00037	44.13%
Pb 220.353†	-1.1	-0.0004 mg/L		0.00035	-0.0004 mg/L		0.00035	101.08%
Sb 206.836†	-2.0	-0.0014 mg/L		0.00164	-0.0014 mg/L		0.00164	113.38%
Se 196.026†	-15.1	-0.0065 mg/L		0.00245	-0.0065 mg/L		0.00245	37.56%
Sn 189.927†	-146.9	-0.0247 mg/L		0.00063	-0.0247 mg/L		0.00063	2.55%
Ti 337.279†	16.5	0.0009 mg/L		0.00018	0.0009 mg/L		0.00018	19.64%
Tl 351.924†	-3.1	-0.0014 mg/L		0.01549	-0.0014 mg/L		0.01549	>999.9%
V 290.880†	49.6	0.0003 mg/L		0.00020	0.0003 mg/L		0.00020	60.81%
Zn 206.200†	65.8	0.0018 mg/L		0.00016	0.0018 mg/L		0.00016	8.90%
Zr 343.823†	54.8	0.0003 mg/L		0.00026	0.0003 mg/L		0.00026	80.97%

Batch ID: OPTIMA 3

Sequence No.: 32

Sample ID: 24D0735-05

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 55

Date Collected: 4/18/2024 4:08:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148113.0	96.5	%	0.53	96.5	%	0.53	0.54%
Y axial	1966038.5	96.5	%	0.63	96.5	%	0.63	0.65%
Ag 328.068†	-72.3	-0.0014	mg/L	0.00096	-0.0014	mg/L	0.00096	66.35%
Al 396.153†	207.5	0.0542	mg/L	0.00345	0.0542	mg/L	0.00345	6.38%
As 188.979†	2.3	0.0021	mg/L	0.00319	0.0021	mg/L	0.00319	153.47%
B 208.889†	260.4	0.0377	mg/L	0.00144	0.0377	mg/L	0.00144	3.83%
Ba 233.527†	115.2	0.0334	mg/L	0.00087	0.0334	mg/L	0.00087	2.61%
Be 313.107†	12.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	113.07%
Ca 317.933†	53811.3	9.355	mg/L	0.0170	9.355	mg/L	0.0170	0.18%
Cd 228.802†	26.4	0.0009	mg/L	0.00011	0.0009	mg/L	0.00011	11.80%
Co 228.616†	-2.1	-0.0001	mg/L	0.00018	-0.0001	mg/L	0.00018	261.57%
Cr 267.716†	893.4	0.0190	mg/L	0.00026	0.0190	mg/L	0.00026	1.36%
Cu 327.393†	1118.3	0.0110	mg/L	0.00105	0.0110	mg/L	0.00105	9.51%
Fe 238.204†	405.7	0.1196	mg/L	0.00094	0.1196	mg/L	0.00094	0.79%
K 766.490†	3158.2	1.581	mg/L	0.0636	1.581	mg/L	0.0636	4.02%
Mg 285.213†	16302.8	1.544	mg/L	0.0043	1.544	mg/L	0.0043	0.28%
Mn 257.610†	485.3	0.0213	mg/L	0.00014	0.0213	mg/L	0.00014	0.64%
Mo 202.031†	8.7	0.0004	mg/L	0.00049	0.0004	mg/L	0.00049	131.79%
Na 589.592†	127408.3	13.62	mg/L	0.027	13.62	mg/L	0.027	0.20%
Ni 231.604†	18.1	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	33.71%
Pb 220.353†	-1.5	-0.0003	mg/L	0.00097	-0.0003	mg/L	0.00097	314.51%
Sb 206.836†	1.9	0.0006	mg/L	0.00255	0.0006	mg/L	0.00255	433.41%
Se 196.026†	-4.8	-0.0032	mg/L	0.00214	-0.0032	mg/L	0.00214	66.44%
Sn 189.927†	-52.3	-0.0087	mg/L	0.00111	-0.0087	mg/L	0.00111	12.65%
Ti 337.279†	31.3	0.0017	mg/L	0.00054	0.0017	mg/L	0.00054	31.74%
Tl 351.924†	-0.5	-0.0003	mg/L	0.01321	-0.0003	mg/L	0.01321	>999.9%
V 290.880†	10.5	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	86.53%
Zn 206.200†	86.4	0.0036	mg/L	0.00016	0.0036	mg/L	0.00016	4.60%
Zr 343.823†	-13.5	-0.0001	mg/L	0.00026	-0.0001	mg/L	0.00026	337.77%

Batch ID: OPTIMA 3

Sequence No.: 33

Sample ID: 24D0735-06

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 56

Date Collected: 4/18/2024 4:15:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	155188.2	101	%	1.16	101	%	1.16	1.15%
Y axial	1981875.6	97.3	%	0.35	97.3	%	0.35	0.36%
Ag 328.068†	-92.4	-0.0017	mg/L	0.00020	-0.0017	mg/L	0.00020	11.64%
Al 396.153†	3413.6	0.9125	mg/L	0.02260	0.9125	mg/L	0.02260	2.48%
As 188.979†	8.1	0.0081	mg/L	0.00136	0.0081	mg/L	0.00136	16.80%
B 208.889†	248.8	0.0359	mg/L	0.00154	0.0359	mg/L	0.00154	4.30%
Ba 233.527†	183.2	0.0529	mg/L	0.00116	0.0529	mg/L	0.00116	2.18%
Be 313.107†	18.5	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	50.00%
Ca 317.933†	193761.0	33.69	mg/L	0.129	33.69	mg/L	0.129	0.38%
Cd 228.802†	15837.1	0.5536	mg/L	0.00546	0.5536	mg/L	0.00546	0.99%
Co 228.616†	179.5	0.0064	mg/L	0.00013	0.0064	mg/L	0.00013	1.98%
Cr 267.716†	165.6	0.0036	mg/L	0.00024	0.0036	mg/L	0.00024	6.73%
Cu 327.393†	5147.2	0.0509	mg/L	0.00138	0.0509	mg/L	0.00138	2.72%

Fe 238.204†	19892.9	5.866 mg/L	0.0467	5.866 mg/L	0.0467	0.80%
K 766.490†	7204.5	3.606 mg/L	0.0232	3.606 mg/L	0.0232	0.64%
Mg 285.213†	60889.8	5.772 mg/L	0.0471	5.772 mg/L	0.0471	0.82%
Mn 257.610†	7261.3	0.3184 mg/L	0.00372	0.3184 mg/L	0.00372	1.17%
Mo 202.031†	31.4	0.0018 mg/L	0.00037	0.0018 mg/L	0.00037	20.53%
Na 589.592†	563008.0	60.17 mg/L	0.321	60.17 mg/L	0.321	0.53%
Ni 231.604†	182.5	0.0076 mg/L	0.00011	0.0076 mg/L	0.00011	1.41%
Pb 220.353†	52.3	0.0147 mg/L	0.00081	0.0147 mg/L	0.00081	5.52%
Sb 206.836†	8.8	0.0039 mg/L	0.00187	0.0039 mg/L	0.00187	48.25%
Se 196.026†	-20.1	-0.0069 mg/L	0.00246	-0.0069 mg/L	0.00246	35.39%
Sn 189.927†	-197.6	-0.0332 mg/L	0.00086	-0.0332 mg/L	0.00086	2.58%
Ti 337.279†	752.4	0.0408 mg/L	0.00028	0.0408 mg/L	0.00028	0.69%
Tl 351.924†	-0.1	-0.0002 mg/L	0.01063	-0.0002 mg/L	0.01063	>999.9%
V 290.880†	426.0	0.0062 mg/L	0.00047	0.0062 mg/L	0.00047	7.62%
Zn 206.200†	2419.1	0.1222 mg/L	0.00069	0.1222 mg/L	0.00069	0.56%
Zr 343.823†	137.9	0.0008 mg/L	0.00032	0.0008 mg/L	0.00032	39.77%

Batch ID: OPTIMA 3

Sequence No.: 34

Sample ID: 24D0735-07

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 57

Date Collected: 4/18/2024 4:23:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150976.5	98.4	%	2.84	98.4	%	2.84	2.89%
Y axial	1966269.1	96.5	%	1.13	96.5	%	1.13	1.17%
Ag 328.068†	-56.2	-0.0011	mg/L	0.00027	-0.0011	mg/L	0.00027	24.14%
Al 396.153†	940.5	0.2515	mg/L	0.01023	0.2515	mg/L	0.01023	4.07%
As 188.979†	9.0	0.0079	mg/L	0.00061	0.0079	mg/L	0.00061	7.74%
B 208.889†	242.6	0.0351	mg/L	0.00130	0.0351	mg/L	0.00130	3.71%
Ba 233.527†	52.6	0.0152	mg/L	0.00100	0.0152	mg/L	0.00100	6.57%
Be 313.107†	24.8	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	68.91%
Ca 317.933†	47100.3	8.189	mg/L	0.0464	8.189	mg/L	0.0464	0.57%
Cd 228.802†	8.3	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	58.80%
Co 228.616†	10.0	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	31.57%
Cr 267.716†	49.6	0.0011	mg/L	0.00015	0.0011	mg/L	0.00015	13.73%
Cu 327.393†	939.7	0.0093	mg/L	0.00056	0.0093	mg/L	0.00056	6.00%
Fe 238.204†	1326.6	0.3912	mg/L	0.01254	0.3912	mg/L	0.01254	3.21%
K 766.490†	3115.9	1.560	mg/L	0.0725	1.560	mg/L	0.0725	4.65%
Mg 285.213†	14793.9	1.402	mg/L	0.0042	1.402	mg/L	0.0042	0.30%
Mn 257.610†	399.3	0.0175	mg/L	0.00036	0.0175	mg/L	0.00036	2.06%
Mo 202.031†	17.7	0.0010	mg/L	0.00038	0.0010	mg/L	0.00038	36.33%
Na 589.592†	125494.2	13.41	mg/L	0.077	13.41	mg/L	0.077	0.57%
Ni 231.604†	36.2	0.0015	mg/L	0.00034	0.0015	mg/L	0.00034	22.26%
Pb 220.353†	0.4	0.0002	mg/L	0.00115	0.0002	mg/L	0.00115	512.94%
Sb 206.836†	6.4	0.0032	mg/L	0.00112	0.0032	mg/L	0.00112	35.38%
Se 196.026†	-0.6	-0.0002	mg/L	0.00280	-0.0002	mg/L	0.00280	>999.9%
Sn 189.927†	-45.6	-0.0075	mg/L	0.00115	-0.0075	mg/L	0.00115	15.31%
Ti 337.279†	180.0	0.0098	mg/L	0.00066	0.0098	mg/L	0.00066	6.72%
Tl 351.924†	-36.4	-0.0109	mg/L	0.01686	-0.0109	mg/L	0.01686	155.31%
V 290.880†	38.5	0.0006	mg/L	0.00023	0.0006	mg/L	0.00023	42.06%
Zn 206.200†	77.3	0.0029	mg/L	0.00012	0.0029	mg/L	0.00012	4.07%
Zr 343.823†	16.8	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	168.80%

Batch ID: OPTIMA 3

Sequence No.: 35

Sample ID: SEQ-CCV@ 23IJ0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 4:31:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150086.5	97.8	%	1.19	97.8 %	1.19	1.22%
Y axial	1960054.4	96.2	%	1.20	96.2 %	1.20	1.25%
Ag 328.068†	117115.3	2.345	mg/L	0.0228	2.345 mg/L	0.0228	0.97%
QC value within limits for Ag 328.068				Recovery = 93.79%			
Al 396.153†	38504.3	10.12	mg/L	0.018	10.12 mg/L	0.018	0.18%
QC value within limits for Al 396.153				Recovery = 101.23%			
As 188.979†	5670.4	4.942	mg/L	0.0196	4.942 mg/L	0.0196	0.40%
QC value within limits for As 188.979				Recovery = 98.84%			
B 208.889†	33413.0	4.595	mg/L	0.0207	4.595 mg/L	0.0207	0.45%
QC value within limits for B 208.889				Recovery = 91.91%			
Ba 233.527†	17186.9	4.983	mg/L	0.0030	4.983 mg/L	0.0030	0.06%
QC value within limits for Ba 233.527				Recovery = 99.66%			
Be 313.107†	1383923.8	5.062	mg/L	0.2301	5.062 mg/L	0.2301	4.55%
QC value within limits for Be 313.107				Recovery = 101.24%			
Ca 317.933†	56960.8	9.902	mg/L	0.0161	9.902 mg/L	0.0161	0.16%
QC value within limits for Ca 317.933				Recovery = 99.02%			
Cd 228.802†	146232.5	5.069	mg/L	0.0060	5.069 mg/L	0.0060	0.12%
QC value within limits for Cd 228.802				Recovery = 101.39%			
Co 228.616†	142622.0	5.104	mg/L	0.0077	5.104 mg/L	0.0077	0.15%
QC value within limits for Co 228.616				Recovery = 102.08%			
Cr 267.716†	240452.6	5.104	mg/L	0.0038	5.104 mg/L	0.0038	0.07%
QC value within limits for Cr 267.716				Recovery = 102.08%			
Cu 327.393†	504387.5	4.977	mg/L	0.0126	4.977 mg/L	0.0126	0.25%
QC value within limits for Cu 327.393				Recovery = 99.54%			
Fe 238.204†	17035.7	5.068	mg/L	0.0023	5.068 mg/L	0.0023	0.05%
QC value within limits for Fe 238.204				Recovery = 101.37%			
K 766.490†	20487.2	10.26	mg/L	0.036	10.26 mg/L	0.036	0.35%
QC value within limits for K 766.490				Recovery = 102.56%			
Mg 285.213†	108796.3	10.33	mg/L	0.021	10.33 mg/L	0.021	0.20%
QC value within limits for Mg 285.213				Recovery = 103.27%			
Mn 257.610†	114544.0	5.023	mg/L	0.0093	5.023 mg/L	0.0093	0.19%
QC value within limits for Mn 257.610				Recovery = 100.46%			
Mo 202.031†	71388.1	4.975	mg/L	0.0105	4.975 mg/L	0.0105	0.21%
QC value within limits for Mo 202.031				Recovery = 99.50%			
Na 589.592†	94996.5	10.15	mg/L	0.051	10.15 mg/L	0.051	0.51%
QC value within limits for Na 589.592				Recovery = 101.52%			
Ni 231.604†	117489.5	4.936	mg/L	0.0070	4.936 mg/L	0.0070	0.14%
QC value within limits for Ni 231.604				Recovery = 98.71%			
Pb 220.353†	17713.2	4.915	mg/L	0.0310	4.915 mg/L	0.0310	0.63%
QC value within limits for Pb 220.353				Recovery = 98.30%			
Sb 206.836†	9521.0	4.971	mg/L	0.0377	4.971 mg/L	0.0377	0.76%
QC value within limits for Sb 206.836				Recovery = 99.43%			
Se 196.026†	7964.5	4.948	mg/L	0.0230	4.948 mg/L	0.0230	0.46%
QC value within limits for Se 196.026				Recovery = 98.97%			
Sn 189.927†	21781.8	5.017	mg/L	0.0187	5.017 mg/L	0.0187	0.37%
QC value within limits for Sn 189.927				Recovery = 100.33%			
Ti 337.279†	92333.3	5.009	mg/L	0.0078	5.009 mg/L	0.0078	0.16%
QC value within limits for Ti 337.279				Recovery = 100.18%			
Tl 351.924†	8564.8	2.551	mg/L	0.0346	2.551 mg/L	0.0346	1.36%
QC value within limits for Tl 351.924				Recovery = 102.03%			
V 290.880†	315175.4	5.173	mg/L	0.0042	5.173 mg/L	0.0042	0.08%
QC value within limits for V 290.880				Recovery = 103.46%			
Zn 206.200†	94353.1	5.036	mg/L	0.0141	5.036 mg/L	0.0141	0.28%
QC value within limits for Zn 206.200				Recovery = 100.72%			
Zr 343.823†	850049.3	4.929	mg/L	0.0050	4.929 mg/L	0.0050	0.10%
All analyte(s) passed QC.							

Batch ID: OPTIMA 3

Sequence No.: 36

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 4:37:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	145353.6	94.8 %		2.29	94.8 %	2.29	2.41%
Y axial	1988875.2	97.6 %		0.53	97.6 %	0.53	0.55%
Ag 328.068†	1179.8	0.0236 mg/L		0.00132	0.0236 mg/L	0.00132	5.60%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated							
Al 396.153†	8.4	0.0022 mg/L		0.00807	0.0022 mg/L	0.00807	361.15%
QC value within limits for Al 396.153 Recovery = Not calculated							
As 188.979†	2.3	0.0020 mg/L		0.00257	0.0020 mg/L	0.00257	129.07%
QC value within limits for As 188.979 Recovery = Not calculated							
B 208.889†	105.4	0.0152 mg/L		0.00020	0.0152 mg/L	0.00020	1.30%
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	2.4	0.0007 mg/L		0.00031	0.0007 mg/L	0.00031	44.32%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	38.8	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	24.79%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933†	17.4	0.0030 mg/L		0.00430	0.0030 mg/L	0.00430	142.60%
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 228.802†	12.5	0.0004 mg/L		0.00002	0.0004 mg/L	0.00002	5.22%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	8.2	0.0003 mg/L		0.00017	0.0003 mg/L	0.00017	58.55%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-11.4	-0.0002 mg/L		0.00020	-0.0002 mg/L	0.00020	83.82%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	357.6	0.0035 mg/L		0.00058	0.0035 mg/L	0.00058	16.60%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	1.2	0.0004 mg/L		0.00197	0.0004 mg/L	0.00197	530.79%
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	168.9	0.0846 mg/L		0.03500	0.0846 mg/L	0.03500	41.40%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	14.7	0.0014 mg/L		0.00048	0.0014 mg/L	0.00048	34.13%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	-19.2	-0.0008 mg/L		0.00048	-0.0008 mg/L	0.00048	56.99%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.5	0.0008 mg/L		0.00049	0.0008 mg/L	0.00049	61.50%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	88.6	0.0095 mg/L		0.00292	0.0095 mg/L	0.00292	30.89%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	20.8	0.0009 mg/L		0.00051	0.0009 mg/L	0.00051	58.72%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	1.3	0.0004 mg/L		0.00287	0.0004 mg/L	0.00287	790.08%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-1.9	-0.0010 mg/L		0.00165	-0.0010 mg/L	0.00165	163.88%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.2	0.0032 mg/L		0.00382	0.0032 mg/L	0.00382	118.23%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	1.4	0.0003 mg/L		0.00114	0.0003 mg/L	0.00114	349.99%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	-18.7	-0.0010 mg/L		0.00068	-0.0010 mg/L	0.00068	67.30%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 351.924†	-20.0	-0.0059 mg/L		0.00151	-0.0059 mg/L	0.00151	25.65%
QC value within limits for Tl 351.924 Recovery = Not calculated							
V 290.880†	-39.9	-0.0006 mg/L		0.00011	-0.0006 mg/L	0.00011	18.05%
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	25.8	0.0014 mg/L		0.00033	0.0014 mg/L	0.00033	24.10%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Zr 343.823†	2.2	0.0000 mg/L		0.00037	0.0000 mg/L	0.00037	>999.9%
QC Failed. Continue with analysis.							

Batch ID: OPTIMA 3

Sequence No.: 37

Sample ID: 24D0735-08

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 58

Date Collected: 4/18/2024 4:43:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	149659.4	97.6	%	1.35	97.6	%	1.35	1.39%
Y axial	1973218.1	96.9	%	0.88	96.9	%	0.88	0.91%
Ag 328.068†	202.3	0.0040	mg/L	0.00056	0.0040	mg/L	0.00056	13.99%
Al 396.153†	1128.1	0.2936	mg/L	0.00811	0.2936	mg/L	0.00811	2.76%
As 188.979†	8.9	0.0078	mg/L	0.00158	0.0078	mg/L	0.00158	20.34%
B 208.889†	492.5	0.0711	mg/L	0.00022	0.0711	mg/L	0.00022	0.31%
Ba 233.527†	84.1	0.0244	mg/L	0.00033	0.0244	mg/L	0.00033	1.35%
Be 313.107†	22.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	42.05%
Ca 317.933†	326795.1	56.82	mg/L	0.057	56.82	mg/L	0.057	0.10%
Cd 228.802†	1445.7	0.0505	mg/L	0.00066	0.0505	mg/L	0.00066	1.31%
Co 228.616†	23.2	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	31.84%
Cr 267.716†	40.2	0.0008	mg/L	0.00009	0.0008	mg/L	0.00009	11.63%
Cu 327.393†	1113.1	0.0110	mg/L	0.00075	0.0110	mg/L	0.00075	6.83%
Fe 238.204†	1068.6	0.3151	mg/L	0.00328	0.3151	mg/L	0.00328	1.04%
K 766.490†	12484.7	6.250	mg/L	0.0383	6.250	mg/L	0.0383	0.61%
Mg 285.213†	64622.8	6.115	mg/L	0.0027	6.115	mg/L	0.0027	0.04%
Mn 257.610†	5022.2	0.2202	mg/L	0.00087	0.2202	mg/L	0.00087	0.39%
Mo 202.031†	52.1	0.0021	mg/L	0.00012	0.0021	mg/L	0.00012	5.71%
Na 589.592†	221509.6	23.67	mg/L	0.085	23.67	mg/L	0.085	0.36%
Ni 231.604†	55.5	0.0023	mg/L	0.00012	0.0023	mg/L	0.00012	5.02%
Pb 220.353†	-6.5	-0.0011	mg/L	0.00067	-0.0011	mg/L	0.00067	62.27%
Sb 206.836†	0.1	-0.0004	mg/L	0.00038	-0.0004	mg/L	0.00038	93.88%
Se 196.026†	-9.6	-0.0078	mg/L	0.00503	-0.0078	mg/L	0.00503	64.11%
Sn 189.927†	-210.4	-0.0346	mg/L	0.00204	-0.0346	mg/L	0.00204	5.90%
Ti 337.279†	161.0	0.0087	mg/L	0.00296	0.0087	mg/L	0.00296	33.91%
Tl 351.924†	0.7	-0.0011	mg/L	0.01308	-0.0011	mg/L	0.01308	>999.9%
V 290.880†	69.1	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	5.46%
Zn 206.200†	119.5	0.0043	mg/L	0.00025	0.0043	mg/L	0.00025	5.96%
Zr 343.823†	24.1	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	112.04%

Batch ID: OPTIMA 3

Sequence No.: 38

Sample ID: 24D0735-09

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 59

Date Collected: 4/18/2024 4:51:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148707.3	96.9	%	2.61	96.9	%	2.61	2.69%
Y axial	1980730.1	97.2	%	1.94	97.2	%	1.94	2.00%
Ag 328.068†	-49.0	-0.0010	mg/L	0.00063	-0.0010	mg/L	0.00063	65.49%
Al 396.153†	796.6	0.2092	mg/L	0.00830	0.2092	mg/L	0.00830	3.97%
As 188.979†	7.8	0.0070	mg/L	0.00243	0.0070	mg/L	0.00243	34.60%
B 208.889†	260.7	0.0376	mg/L	0.00248	0.0376	mg/L	0.00248	6.60%
Ba 233.527†	61.7	0.0178	mg/L	0.00078	0.0178	mg/L	0.00078	4.37%
Be 313.107†	27.5	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	69.43%
Ca 317.933†	169404.1	29.45	mg/L	0.030	29.45	mg/L	0.030	0.10%
Cd 228.802†	153.5	0.0053	mg/L	0.00029	0.0053	mg/L	0.00029	5.45%
Co 228.616†	19.7	0.0007	mg/L	0.00023	0.0007	mg/L	0.00023	31.88%
Cr 267.716†	35.1	0.0008	mg/L	0.00027	0.0008	mg/L	0.00027	34.94%
Cu 327.393†	3320.7	0.0328	mg/L	0.00052	0.0328	mg/L	0.00052	1.59%
Fe 238.204†	5256.6	1.550	mg/L	0.0298	1.550	mg/L	0.0298	1.92%
K 766.490†	8690.9	4.351	mg/L	0.1026	4.351	mg/L	0.1026	2.36%
Mg 285.213†	58493.2	5.542	mg/L	0.1134	5.542	mg/L	0.1134	2.05%
Mn 257.610†	3213.7	0.1409	mg/L	0.00408	0.1409	mg/L	0.00408	2.89%
Mo 202.031†	34.2	0.0017	mg/L	0.00019	0.0017	mg/L	0.00019	10.90%
Na 589.592†	353548.6	37.78	mg/L	0.149	37.78	mg/L	0.149	0.39%
Ni 231.604†	49.3	0.0021	mg/L	0.00034	0.0021	mg/L	0.00034	16.32%
Pb 220.353†	1.7	0.0008	mg/L	0.00179	0.0008	mg/L	0.00179	229.94%
Sb 206.836†	1.3	0.0003	mg/L	0.00159	0.0003	mg/L	0.00159	631.19%
Se 196.026†	-10.9	-0.0061	mg/L	0.00294	-0.0061	mg/L	0.00294	48.22%
Sn 189.927†	-180.7	-0.0299	mg/L	0.00344	-0.0299	mg/L	0.00344	11.50%

Ti 337.279†	80.4	0.0044 mg/L	0.00094	0.0044 mg/L	0.00094	21.53%
Tl 351.924†	-41.9	-0.0130 mg/L	0.00478	-0.0130 mg/L	0.00478	36.75%
V 290.880†	229.1	0.0033 mg/L	0.00067	0.0033 mg/L	0.00067	20.05%
Zn 206.200†	297.7	0.0123 mg/L	0.00024	0.0123 mg/L	0.00024	1.96%
Zr 343.823†	55.2	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	53.66%

Batch ID: OPTIMA 3

Sequence No.: 39

Sample ID: 24D0735-10

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 60

Date Collected: 4/18/2024 4:59:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-10

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	152868.2	99.6 %	0.49	99.6 %	0.49	0.49%
Y axial	2008713.4	98.6 %	1.87	98.6 %	1.87	1.90%
Ag 328.068†	35.0	0.0008 mg/L	0.00053	0.0008 mg/L	0.00053	66.15%
Al 396.153†	6297.6	1.692 mg/L	0.0027	1.692 mg/L	0.0027	0.16%
As 188.979†	2.2	0.0027 mg/L	0.00240	0.0027 mg/L	0.00240	89.52%
B 208.889†	75.3	0.0108 mg/L	0.00201	0.0108 mg/L	0.00201	18.58%
Ba 233.527†	113.9	0.0329 mg/L	0.00186	0.0329 mg/L	0.00186	5.66%
Be 313.107†	34.6	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	27.07%
Ca 317.933†	47367.9	8.234 mg/L	0.0130	8.234 mg/L	0.0130	0.16%
Cd 228.802†	106.8	0.0037 mg/L	0.00038	0.0037 mg/L	0.00038	10.28%
Co 228.616†	70.0	0.0023 mg/L	0.00041	0.0023 mg/L	0.00041	17.31%
Cr 267.716†	353.0	0.0076 mg/L	0.00010	0.0076 mg/L	0.00010	1.37%
Cu 327.393†	3947.0	0.0391 mg/L	0.00149	0.0391 mg/L	0.00149	3.81%
Fe 238.204†	13087.2	3.859 mg/L	0.0149	3.859 mg/L	0.0149	0.39%
K 766.490†	1926.9	0.9640 mg/L	0.01589	0.9640 mg/L	0.01589	1.65%
Mg 285.213†	20776.0	1.972 mg/L	0.0022	1.972 mg/L	0.0022	0.11%
Mn 257.610†	1957.0	0.0859 mg/L	0.00064	0.0859 mg/L	0.00064	0.74%
Mo 202.031†	17.4	0.0013 mg/L	0.00057	0.0013 mg/L	0.00057	42.72%
Na 589.592†	96462.5	10.31 mg/L	0.034	10.31 mg/L	0.034	0.33%
Ni 231.604†	179.7	0.0075 mg/L	0.00066	0.0075 mg/L	0.00066	8.71%
Pb 220.353†	29.8	0.0083 mg/L	0.00209	0.0083 mg/L	0.00209	25.08%
Sb 206.836†	4.0	0.0015 mg/L	0.00270	0.0015 mg/L	0.00270	176.14%
Se 196.026†	-7.1	-0.0001 mg/L	0.00116	-0.0001 mg/L	0.00116	>999.9%
Sn 189.927†	-63.6	-0.0106 mg/L	0.00027	-0.0106 mg/L	0.00027	2.59%
Ti 337.279†	1604.6	0.0870 mg/L	0.00245	0.0870 mg/L	0.00245	2.82%
Tl 351.924†	-5.9	-0.0016 mg/L	0.00140	-0.0016 mg/L	0.00140	88.19%
V 290.880†	666.5	0.0103 mg/L	0.00038	0.0103 mg/L	0.00038	3.71%
Zn 206.200†	3499.4	0.1839 mg/L	0.00545	0.1839 mg/L	0.00545	2.96%
Zr 343.823†	131.0	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	27.20%

Batch ID: OPTIMA 3

Sequence No.: 40

Sample ID: 24D0735-11

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 61

Date Collected: 4/18/2024 5:07:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-11

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150722.9	98.3 %	1.96	98.3 %	1.96	2.00%
Y axial	2023436.0	99.3 %	1.25	99.3 %	1.25	1.26%
Ag 328.068†	-14.6	-0.0003 mg/L	0.00079	-0.0003 mg/L	0.00079	270.92%
Al 396.153†	303.2	0.0781 mg/L	0.00331	0.0781 mg/L	0.00331	4.24%
As 188.979†	6.4	0.0056 mg/L	0.00233	0.0056 mg/L	0.00233	41.66%
B 208.889†	192.4	0.0278 mg/L	0.00116	0.0278 mg/L	0.00116	4.17%
Ba 233.527†	50.5	0.0147 mg/L	0.00140	0.0147 mg/L	0.00140	9.56%
Be 313.107†	6.1	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	156.31%

Ca 317.933†	114908.7	19.98 mg/L	0.042	19.98 mg/L	0.042	0.21%
Cd 228.802†	1.7	-0.0000 mg/L	0.00035	-0.0000 mg/L	0.00035	>999.9%
Co 228.616†	6.5	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	78.19%
Cr 267.716†	6.2	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	29.14%
Cu 327.393†	965.9	0.0095 mg/L	0.00028	0.0095 mg/L	0.00028	2.90%
Fe 238.204†	272.8	0.0804 mg/L	0.00135	0.0804 mg/L	0.00135	1.68%
K 766.490†	3050.5	1.527 mg/L	0.0403	1.527 mg/L	0.0403	2.64%
Mg 285.213†	64573.7	6.121 mg/L	0.0071	6.121 mg/L	0.0071	0.12%
Mn 257.610†	36.9	0.0016 mg/L	0.00036	0.0016 mg/L	0.00036	22.14%
Mo 202.031†	24.9	0.0012 mg/L	0.00081	0.0012 mg/L	0.00081	67.15%
Na 589.592†	121551.2	12.99 mg/L	0.019	12.99 mg/L	0.019	0.15%
Ni 231.604†	39.2	0.0016 mg/L	0.00040	0.0016 mg/L	0.00040	24.56%
Pb 220.353†	-0.5	0.0001 mg/L	0.00225	0.0001 mg/L	0.00225	>999.9%
Sb 206.836†	1.8	0.0005 mg/L	0.00366	0.0005 mg/L	0.00366	701.61%
Se 196.026†	-6.6	-0.0048 mg/L	0.00527	-0.0048 mg/L	0.00527	110.85%
Sn 189.927†	-194.6	-0.0324 mg/L	0.00042	-0.0324 mg/L	0.00042	1.30%
Ti 337.279†	44.1	0.0024 mg/L	0.00056	0.0024 mg/L	0.00056	23.25%
Tl 351.924†	9.6	0.0024 mg/L	0.00819	0.0024 mg/L	0.00819	346.83%
V 290.880†	27.6	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	64.95%
Zn 206.200†	173.9	0.0081 mg/L	0.00053	0.0081 mg/L	0.00053	6.52%
Zr 343.823†	80.7	0.0005 mg/L	0.00019	0.0005 mg/L	0.00019	40.43%

Batch ID: OPTIMA 3

Sequence No.: 41

Sample ID: 24D0735-12

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 62

Date Collected: 4/18/2024 5:14:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152458.8	99.4	%	2.22	99.4	%	2.22	2.23%
Y axial	1987490.1	97.6	%	1.47	97.6	%	1.47	1.50%
Ag 328.068†	-56.1	-0.0011 mg/L		0.00061	-0.0011 mg/L		0.00061	56.36%
Al 396.153†	56.8	0.0132 mg/L		0.00696	0.0132 mg/L		0.00696	52.66%
As 188.979†	4.2	0.0041 mg/L		0.00311	0.0041 mg/L		0.00311	76.62%
B 208.889†	233.7	0.0338 mg/L		0.00058	0.0338 mg/L		0.00058	1.71%
Ba 233.527†	140.9	0.0408 mg/L		0.00080	0.0408 mg/L		0.00080	1.97%
Be 313.107†	38.4	0.0001 mg/L		0.00002	0.0001 mg/L		0.00002	16.89%
Ca 317.933†	71425.0	12.42 mg/L		0.235	12.42 mg/L		0.235	1.89%
Cd 228.802†	7.6	0.0002 mg/L		0.00004	0.0002 mg/L		0.00004	15.60%
Co 228.616†	35.8	0.0013 mg/L		0.00045	0.0013 mg/L		0.00045	34.25%
Cr 267.716†	7.6	0.0002 mg/L		0.00035	0.0002 mg/L		0.00035	166.61%
Cu 327.393†	586.4	0.0059 mg/L		0.00008	0.0059 mg/L		0.00008	1.31%
Fe 238.204†	8162.3	2.407 mg/L		0.0424	2.407 mg/L		0.0424	1.76%
K 766.490†	2875.6	1.439 mg/L		0.0548	1.439 mg/L		0.0548	3.81%
Mg 285.213†	57599.3	5.463 mg/L		0.0997	5.463 mg/L		0.0997	1.82%
Mn 257.610†	3012.2	0.1321 mg/L		0.00260	0.1321 mg/L		0.00260	1.97%
Mo 202.031†	13.7	0.0008 mg/L		0.00051	0.0008 mg/L		0.00051	61.36%
Na 589.592†	343097.2	36.66 mg/L		0.689	36.66 mg/L		0.689	1.88%
Ni 231.604†	47.9	0.0020 mg/L		0.00056	0.0020 mg/L		0.00056	27.80%
Pb 220.353†	-7.3	-0.0020 mg/L		0.00067	-0.0020 mg/L		0.00067	33.74%
Sb 206.836†	3.6	0.0014 mg/L		0.00263	0.0014 mg/L		0.00263	184.39%
Se 196.026†	-7.7	-0.0025 mg/L		0.00436	-0.0025 mg/L		0.00436	176.21%
Sn 189.927†	-175.3	-0.0295 mg/L		0.00095	-0.0295 mg/L		0.00095	3.24%
Ti 337.279†	0.8	0.0000 mg/L		0.00101	0.0000 mg/L		0.00101	>999.9%
Tl 351.924†	-42.0	-0.0126 mg/L		0.01562	-0.0126 mg/L		0.01562	124.13%
V 290.880†	33.3	0.0001 mg/L		0.00051	0.0001 mg/L		0.00051	459.58%
Zn 206.200†	126.9	0.0033 mg/L		0.00038	0.0033 mg/L		0.00038	11.36%
Zr 343.823†	41.4	0.0002 mg/L		0.00007	0.0002 mg/L		0.00007	29.90%

Batch ID: OPTIMA 3

Sequence No.: 42

Sample ID: 24D0735-13

Analyst:

Autosampler Location: 63

Date Collected: 4/18/2024 5:22:36 PM

Data Type: Original

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-13

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151210.6	98.6	%	0.59	98.6	%	0.59	0.60%
Y axial	1997319.9	98.0	%	2.69	98.0	%	2.69	2.74%
Ag 328.068†	-67.0	-0.0014	mg/L	0.00113	-0.0014	mg/L	0.00113	78.43%
Al 396.153†	297.2	0.0772	mg/L	0.00791	0.0772	mg/L	0.00791	10.24%
As 188.979†	6.2	0.0054	mg/L	0.00292	0.0054	mg/L	0.00292	54.43%
B 208.889†	169.9	0.0246	mg/L	0.00166	0.0246	mg/L	0.00166	6.77%
Ba 233.527†	44.4	0.0129	mg/L	0.00045	0.0129	mg/L	0.00045	3.47%
Be 313.107†	15.9	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	84.61%
Ca 317.933†	91875.0	15.97	mg/L	0.056	15.97	mg/L	0.056	0.35%
Cd 228.802†	835.6	0.0291	mg/L	0.00107	0.0291	mg/L	0.00107	3.65%
Co 228.616†	9.9	0.0004	mg/L	0.00026	0.0004	mg/L	0.00026	72.52%
Cr 267.716†	196.5	0.0040	mg/L	0.00022	0.0040	mg/L	0.00022	5.52%
Cu 327.393†	1082.9	0.0107	mg/L	0.00117	0.0107	mg/L	0.00117	10.96%
Fe 238.204†	512.1	0.1510	mg/L	0.00254	0.1510	mg/L	0.00254	1.68%
K 766.490†	4104.0	2.055	mg/L	0.0268	2.055	mg/L	0.0268	1.30%
Mg 285.213†	18411.9	1.742	mg/L	0.0064	1.742	mg/L	0.0064	0.37%
Mn 257.610†	11420.4	0.5006	mg/L	0.00115	0.5006	mg/L	0.00115	0.23%
Mo 202.031†	10.8	0.0003	mg/L	0.00057	0.0003	mg/L	0.00057	168.80%
Na 589.592†	99313.9	10.61	mg/L	0.037	10.61	mg/L	0.037	0.35%
Ni 231.604†	32.4	0.0013	mg/L	0.00079	0.0013	mg/L	0.00079	60.79%
Pb 220.353†	15.7	0.0045	mg/L	0.00185	0.0045	mg/L	0.00185	41.09%
Sb 206.836†	5.8	0.0028	mg/L	0.00155	0.0028	mg/L	0.00155	55.18%
Se 196.026†	-1.7	-0.0018	mg/L	0.00043	-0.0018	mg/L	0.00043	24.28%
Sn 189.927†	-62.8	-0.0105	mg/L	0.00104	-0.0105	mg/L	0.00104	9.87%
Ti 337.279†	67.0	0.0036	mg/L	0.00112	0.0036	mg/L	0.00112	30.78%
Tl 351.924†	-10.6	-0.0035	mg/L	0.00361	-0.0035	mg/L	0.00361	104.24%
V 290.880†	-2.5	-0.0001	mg/L	0.00053	-0.0001	mg/L	0.00053	516.59%
Zn 206.200†	78.7	0.0033	mg/L	0.00024	0.0033	mg/L	0.00024	7.21%
Zr 343.823†	38.5	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	74.67%

=====

Batch ID: OPTIMA 3

Sequence No.: 43

Sample ID: 24D0735-14

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 64

Date Collected: 4/18/2024 5:30:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150553.7	98.1	%	2.32	98.1	%	2.32	2.37%
Y axial	2006520.9	98.5	%	1.73	98.5	%	1.73	1.75%
Ag 328.068†	-76.3	-0.0016	mg/L	0.00068	-0.0016	mg/L	0.00068	43.41%
Al 396.153†	138.4	0.0344	mg/L	0.00249	0.0344	mg/L	0.00249	7.26%
As 188.979†	2.2	0.0019	mg/L	0.00283	0.0019	mg/L	0.00283	152.07%
B 208.889†	55.0	0.0079	mg/L	0.00042	0.0079	mg/L	0.00042	5.28%
Ba 233.527†	28.1	0.0081	mg/L	0.00079	0.0081	mg/L	0.00079	9.69%
Be 313.107†	-5.5	-0.0000	mg/L	0.00007	-0.0000	mg/L	0.00007	373.22%
Ca 317.933†	95286.7	16.57	mg/L	0.077	16.57	mg/L	0.077	0.46%
Cd 228.802†	0.3	-0.0000	mg/L	0.00031	-0.0000	mg/L	0.00031	>999.9%
Co 228.616†	5.1	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	83.20%
Cr 267.716†	50.8	0.0010	mg/L	0.00022	0.0010	mg/L	0.00022	22.12%
Cu 327.393†	670.6	0.0066	mg/L	0.00040	0.0066	mg/L	0.00040	6.07%
Fe 238.204†	210.5	0.0621	mg/L	0.00196	0.0621	mg/L	0.00196	3.16%
K 766.490†	1675.1	0.8386	mg/L	0.03012	0.8386	mg/L	0.03012	3.59%
Mg 285.213†	18574.4	1.758	mg/L	0.0091	1.758	mg/L	0.0091	0.52%
Mn 257.610†	4375.7	0.1918	mg/L	0.00123	0.1918	mg/L	0.00123	0.64%
Mo 202.031†	21.2	0.0010	mg/L	0.00034	0.0010	mg/L	0.00034	32.36%
Na 589.592†	52098.9	5.567	mg/L	0.0187	5.567	mg/L	0.0187	0.34%

Ni 231.604†	29.1	0.0012 mg/L	0.00055	0.0012 mg/L	0.00055	46.02%
Pb 220.353†	0.6	0.0004 mg/L	0.00080	0.0004 mg/L	0.00080	218.01%
Sb 206.836†	-0.8	-0.0006 mg/L	0.00168	-0.0006 mg/L	0.00168	289.20%
Se 196.026†	-0.5	-0.0010 mg/L	0.00265	-0.0010 mg/L	0.00265	275.76%
Sn 189.927†	-70.6	-0.0123 mg/L	0.00041	-0.0123 mg/L	0.00041	3.30%
Ti 337.279†	40.7	0.0022 mg/L	0.00222	0.0022 mg/L	0.00222	100.61%
Tl 351.924†	-5.4	-0.0020 mg/L	0.00572	-0.0020 mg/L	0.00572	285.64%
V 290.880†	-11.8	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	54.72%
Zn 206.200†	123.8	0.0061 mg/L	0.00025	0.0061 mg/L	0.00025	4.08%
Zr 343.823†	30.1	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.90%

Batch ID: OPTIMA 3

Sequence No.: 44

Sample ID: 24D0735-15

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 65

Date Collected: 4/18/2024 5:38:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D0735-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	152602.4	99.5 %		0.70	99.5 %	0.70	0.70%
Y axial	1985881.8	97.5 %		1.07	97.5 %	1.07	1.10%
Ag 328.068†	-71.6	-0.0014 mg/L		0.00093	-0.0014 mg/L	0.00093	64.59%
Al 396.153†	164.4	0.0382 mg/L		0.01144	0.0382 mg/L	0.01144	29.92%
As 188.979†	1.4	0.0012 mg/L		0.00137	0.0012 mg/L	0.00137	110.17%
B 208.889†	151.6	0.0218 mg/L		0.00046	0.0218 mg/L	0.00046	2.10%
Ba 233.527†	164.5	0.0477 mg/L		0.00125	0.0477 mg/L	0.00125	2.62%
Be 313.107†	-5.9	-0.0000 mg/L		0.00005	-0.0000 mg/L	0.00005	205.56%
Ca 317.933†	198260.1	34.47 mg/L		0.404	34.47 mg/L	0.404	1.17%
Cd 228.802†	125.0	0.0044 mg/L		0.00020	0.0044 mg/L	0.00020	4.59%
Co 228.616†	6.1	0.0002 mg/L		0.00013	0.0002 mg/L	0.00013	55.23%
Cr 267.716†	19.5	0.0004 mg/L		0.00018	0.0004 mg/L	0.00018	42.56%
Cu 327.393†	640.2	0.0063 mg/L		0.00065	0.0063 mg/L	0.00065	10.24%
Fe 238.204†	200.5	0.0591 mg/L		0.00035	0.0591 mg/L	0.00035	0.59%
K 766.490†	6494.7	3.251 mg/L		0.0541	3.251 mg/L	0.0541	1.66%
Mg 285.213†	46550.8	4.407 mg/L		0.0060	4.407 mg/L	0.0060	0.14%
Mn 257.610†	86.5	0.0038 mg/L		0.00036	0.0038 mg/L	0.00036	9.52%
Mo 202.031†	36.2	0.0016 mg/L		0.00023	0.0016 mg/L	0.00023	14.59%
Na 589.592†	510940.2	54.60 mg/L		0.382	54.60 mg/L	0.382	0.70%
Ni 231.604†	36.6	0.0015 mg/L		0.00026	0.0015 mg/L	0.00026	17.07%
Pb 220.353†	-0.2	0.0004 mg/L		0.00076	0.0004 mg/L	0.00076	183.02%
Sb 206.836†	0.8	0.0001 mg/L		0.00183	0.0001 mg/L	0.00183	>999.9%
Se 196.026†	-2.2	-0.0026 mg/L		0.00617	-0.0026 mg/L	0.00617	235.20%
Sn 189.927†	-155.2	-0.0260 mg/L		0.00186	-0.0260 mg/L	0.00186	7.13%
Ti 337.279†	22.2	0.0012 mg/L		0.00020	0.0012 mg/L	0.00020	16.19%
Tl 351.924†	4.7	0.0005 mg/L		0.01109	0.0005 mg/L	0.01109	>999.9%
V 290.880†	43.4	0.0005 mg/L		0.00055	0.0005 mg/L	0.00055	104.74%
Zn 206.200†	114.7	0.0013 mg/L		0.00025	0.0013 mg/L	0.00025	18.77%
Zr 343.823†	47.1	0.0003 mg/L		0.00017	0.0003 mg/L	0.00017	60.87%

User canceled analysis.

=====
Analysis Begun

Start Time: 4/18/2024 5:42:54 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====
Batch ID: OPTIMA 3

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23I0972

Date Collected: 4/18/2024 5:43:05 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

User canceled analysis.

=====
Analysis Begun

Start Time: 4/18/2024 5:43:29 PM

Plasma On Time: 4/18/2024 8:09:32 AM

Originator: Optima8300

Technique: ICP Continuous

Spectrometer: Optima 8300 , S/N 078S1703073

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\
0418A24.sifx

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

=====
Batch ID: OPTIMA 3

Sequence No.: 45

Autosampler Location: 66

Sample ID: 24D0735-16

Date Collected: 4/18/2024 5:43:30 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample):

=====
Mean Data: 24D0735-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152558.3	99.4	%	1.11	99.4	%	1.11	1.12%
Y axial	1995448.5	97.9	%	0.96	97.9	%	0.96	0.98%
Ag 328.068†	-66.1	-0.0014	mg/L	0.00085	-0.0014	mg/L	0.00085	59.98%
Al 396.153†	197.1	0.0496	mg/L	0.00891	0.0496	mg/L	0.00891	17.98%
As 188.979†	5.8	0.0051	mg/L	0.00161	0.0051	mg/L	0.00161	31.34%
B 208.889†	197.9	0.0286	mg/L	0.00069	0.0286	mg/L	0.00069	2.42%
Ba 233.527†	92.0	0.0266	mg/L	0.00123	0.0266	mg/L	0.00123	4.61%
Be 313.107†	-2.1	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	301.60%
Ca 317.933†	114756.1	19.95	mg/L	0.030	19.95	mg/L	0.030	0.15%
Cd 228.802†	173.7	0.0060	mg/L	0.00015	0.0060	mg/L	0.00015	2.54%
Co 228.616†	145.0	0.0052	mg/L	0.00013	0.0052	mg/L	0.00013	2.51%
Cr 267.716†	110.3	0.0022	mg/L	0.00014	0.0022	mg/L	0.00014	6.44%
Cu 327.393†	745.3	0.0074	mg/L	0.00046	0.0074	mg/L	0.00046	6.22%
Fe 238.204†	2892.3	0.8529	mg/L	0.00920	0.8529	mg/L	0.00920	1.08%
K 766.490†	4418.8	2.212	mg/L	0.0494	2.212	mg/L	0.0494	2.23%
Mg 285.213†	30474.3	2.886	mg/L	0.0806	2.886	mg/L	0.0806	2.79%
Mn 257.610†	13021.6	0.5708	mg/L	0.01574	0.5708	mg/L	0.01574	2.76%
Mo 202.031†	18.9	0.0009	mg/L	0.00042	0.0009	mg/L	0.00042	49.29%
Na 589.592†	295743.8	31.60	mg/L	0.110	31.60	mg/L	0.110	0.35%
Ni 231.604†	80.4	0.0033	mg/L	0.00046	0.0033	mg/L	0.00046	13.94%
Pb 220.353†	-6.8	-0.0017	mg/L	0.00133	-0.0017	mg/L	0.00133	76.29%
Sb 206.836†	-2.2	-0.0014	mg/L	0.00372	-0.0014	mg/L	0.00372	264.95%

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151730.9	98.9	%	1.68	98.9	%	1.68	1.70%
Y axial	1978056.0	97.1	%	1.35	97.1	%	1.35	1.39%
Ag 328.068†	109301.5	2.188	mg/L	0.0468	2.188	mg/L	0.0468	2.14%
QC value	less than the	lower limit	for Ag 328.068	Recovery =	87.53%			
Al 396.153†	38142.2	10.03	mg/L	0.047	10.03	mg/L	0.047	0.47%
QC value	within limits	for Al 396.153	Recovery =	100.29%				

As	188.979†	5848.2	5.098 mg/L	0.1581	5.098 mg/L	0.1581	3.10%
	QC value within limits for As 188.979		Recovery = 101.95%				
B	208.889†	34335.0	4.732 mg/L	0.1632	4.732 mg/L	0.1632	3.45%
	QC value within limits for B 208.889		Recovery = 94.65%				
Ba	233.527†	17186.1	4.983 mg/L	0.1245	4.983 mg/L	0.1245	2.50%
	QC value within limits for Ba 233.527		Recovery = 99.66%				
Be	313.107†	1372750.2	5.021 mg/L	0.1314	5.021 mg/L	0.1314	2.62%
	QC value within limits for Be 313.107		Recovery = 100.42%				
Ca	317.933†	56347.6	9.795 mg/L	0.0049	9.795 mg/L	0.0049	0.05%
	QC value within limits for Ca 317.933		Recovery = 97.95%				
Cd	228.802†	145176.4	5.030 mg/L	0.0129	5.030 mg/L	0.0129	0.26%
	QC value within limits for Cd 228.802		Recovery = 100.61%				
Co	228.616†	141769.8	5.073 mg/L	0.0094	5.073 mg/L	0.0094	0.19%
	QC value within limits for Co 228.616		Recovery = 101.47%				
Cr	267.716†	239781.2	5.090 mg/L	0.0045	5.090 mg/L	0.0045	0.09%
	QC value within limits for Cr 267.716		Recovery = 101.79%				
Cu	327.393†	496725.1	4.902 mg/L	0.0030	4.902 mg/L	0.0030	0.06%
	QC value within limits for Cu 327.393		Recovery = 98.03%				
Fe	238.204†	16999.1	5.057 mg/L	0.0150	5.057 mg/L	0.0150	0.30%
	QC value within limits for Fe 238.204		Recovery = 101.15%				
K	766.490†	20262.0	10.14 mg/L	0.054	10.14 mg/L	0.054	0.54%
	QC value within limits for K 766.490		Recovery = 101.43%				
Mg	285.213†	108247.3	10.27 mg/L	0.033	10.27 mg/L	0.033	0.32%
	QC value within limits for Mg 285.213		Recovery = 102.75%				
Mn	257.610†	113982.4	4.998 mg/L	0.0115	4.998 mg/L	0.0115	0.23%
	QC value within limits for Mn 257.610		Recovery = 99.97%				
Mo	202.031†	70334.0	4.901 mg/L	0.0094	4.901 mg/L	0.0094	0.19%
	QC value within limits for Mo 202.031		Recovery = 98.03%				
Na	589.592†	94238.4	10.07 mg/L	0.036	10.07 mg/L	0.036	0.35%
	QC value within limits for Na 589.592		Recovery = 100.71%				
Ni	231.604†	115407.2	4.848 mg/L	0.0122	4.848 mg/L	0.0122	0.25%
	QC value within limits for Ni 231.604		Recovery = 96.96%				
Pb	220.353†	18098.0	5.022 mg/L	0.1487	5.022 mg/L	0.1487	2.96%
	QC value within limits for Pb 220.353		Recovery = 100.43%				
Sb	206.836†	9733.4	5.082 mg/L	0.1653	5.082 mg/L	0.1653	3.25%
	QC value within limits for Sb 206.836		Recovery = 101.63%				
Se	196.026†	8271.0	5.139 mg/L	0.1798	5.139 mg/L	0.1798	3.50%
	QC value within limits for Se 196.026		Recovery = 102.78%				
Sn	189.927†	22553.4	5.194 mg/L	0.1553	5.194 mg/L	0.1553	2.99%
	QC value within limits for Sn 189.927		Recovery = 103.87%				
Ti	337.279†	91912.5	4.986 mg/L	0.0096	4.986 mg/L	0.0096	0.19%
	QC value within limits for Ti 337.279		Recovery = 99.72%				
Tl	351.924†	8734.1	2.601 mg/L	0.0704	2.601 mg/L	0.0704	2.71%
	QC value within limits for Tl 351.924		Recovery = 104.05%				
V	290.880†	312529.3	5.129 mg/L	0.0077	5.129 mg/L	0.0077	0.15%
	QC value within limits for V 290.880		Recovery = 102.57%				
Zn	206.200†	93299.7	4.980 mg/L	0.0158	4.980 mg/L	0.0158	0.32%
	QC value within limits for Zn 206.200		Recovery = 99.60%				
Zr	343.823†	836553.1	4.851 mg/L	0.0043	4.851 mg/L	0.0043	0.09%
QC Failed. Continue with analysis.							

Batch ID: OPTIMA 3

Sequence No.: 48

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 6:05:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150097.2	97.8 %	1.97	97.8 %	1.97	2.01%
Y axial	2037640.8	100 %	1.36	100 %	1.36	1.36%
Ag 328.068†	969.0	0.0194 mg/L	0.00155	0.0194 mg/L	0.00155	7.99%
	QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated					
Al 396.153†	-32.0	-0.0087 mg/L	0.00586	-0.0087 mg/L	0.00586	67.71%
	QC value within limits for Al 396.153 Recovery = Not calculated					

As 188.979†	0.4	0.0003 mg/L	0.00241	0.0003 mg/L	0.00241	724.07%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	66.3	0.0095 mg/L	0.00111	0.0095 mg/L	0.00111	11.65%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	-0.2	-0.0001 mg/L	0.00211	-0.0001 mg/L	0.00211	>999.9%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	11.5	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	35.90%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	23.5	0.0041 mg/L	0.00303	0.0041 mg/L	0.00303	74.41%
QC value within limits for Ca 317.933			Recovery = Not calculated			
Cd 228.802†	9.5	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	12.39%
QC value within limits for Cd 228.802			Recovery = Not calculated			
Co 228.616†	17.1	0.0006 mg/L	0.00041	0.0006 mg/L	0.00041	66.49%
QC value within limits for Co 228.616			Recovery = Not calculated			
Cr 267.716†	-15.0	-0.0003 mg/L	0.00013	-0.0003 mg/L	0.00013	42.38%
QC value within limits for Cr 267.716			Recovery = Not calculated			
Cu 327.393†	103.7	0.0010 mg/L	0.00054	0.0010 mg/L	0.00054	52.48%
QC value within limits for Cu 327.393			Recovery = Not calculated			
Fe 238.204†	3.5	0.0010 mg/L	0.00053	0.0010 mg/L	0.00053	50.45%
QC value within limits for Fe 238.204			Recovery = Not calculated			
K 766.490†	95.6	0.0478 mg/L	0.03924	0.0478 mg/L	0.03924	82.03%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	9.0	0.0009 mg/L	0.00106	0.0009 mg/L	0.00106	124.10%
QC value within limits for Mg 285.213			Recovery = Not calculated			
Mn 257.610†	-3.1	-0.0001 mg/L	0.00041	-0.0001 mg/L	0.00041	304.72%
QC value within limits for Mn 257.610			Recovery = Not calculated			
Mo 202.031†	17.9	0.0012 mg/L	0.00010	0.0012 mg/L	0.00010	8.29%
QC value within limits for Mo 202.031			Recovery = Not calculated			
Na 589.592†	64.9	0.0069 mg/L	0.00307	0.0069 mg/L	0.00307	44.28%
QC value within limits for Na 589.592			Recovery = Not calculated			
Ni 231.604†	26.9	0.0011 mg/L	0.00041	0.0011 mg/L	0.00041	35.83%
QC value within limits for Ni 231.604			Recovery = Not calculated			
Pb 220.353†	-2.8	-0.0008 mg/L	0.00043	-0.0008 mg/L	0.00043	55.16%
QC value within limits for Pb 220.353			Recovery = Not calculated			
Sb 206.836†	-2.1	-0.0011 mg/L	0.00187	-0.0011 mg/L	0.00187	166.59%
QC value within limits for Sb 206.836			Recovery = Not calculated			
Se 196.026†	10.5	0.0065 mg/L	0.00331	0.0065 mg/L	0.00331	50.54%
QC value within limits for Se 196.026			Recovery = Not calculated			
Sn 189.927†	-0.7	-0.0002 mg/L	0.00054	-0.0002 mg/L	0.00054	354.66%
QC value within limits for Sn 189.927			Recovery = Not calculated			
Ti 337.279†	-2.0	-0.0001 mg/L	0.00183	-0.0001 mg/L	0.00183	>999.9%
QC value within limits for Ti 337.279			Recovery = Not calculated			
Tl 351.924†	-14.5	-0.0043 mg/L	0.00184	-0.0043 mg/L	0.00184	43.25%
QC value within limits for Tl 351.924			Recovery = Not calculated			
V 290.880†	-55.7	-0.0009 mg/L	0.00039	-0.0009 mg/L	0.00039	45.22%
QC value within limits for V 290.880			Recovery = Not calculated			
Zn 206.200†	12.8	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	14.89%
QC value within limits for Zn 206.200			Recovery = Not calculated			
Zr 343.823†	17.4	0.0001 mg/L	0.00049	0.0001 mg/L	0.00049	487.30%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 49

Sample ID: B371351-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 68

Date Collected: 4/18/2024 6:11:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	146880.6	95.7 %	1.09	95.7 %	1.09	1.13%
Y axial	1983744.9	97.4 %	1.25	97.4 %	1.25	1.28%
Ag 328.068†	189.6	0.0038 mg/L	0.00126	0.0038 mg/L	0.00126	33.11%
Al 396.153†	-25.3	-0.0068 mg/L	0.00252	-0.0068 mg/L	0.00252	36.82%
As 188.979†	3.4	0.0029 mg/L	0.00180	0.0029 mg/L	0.00180	61.58%
B 208.889†	39.4	0.0057 mg/L	0.00075	0.0057 mg/L	0.00075	13.28%

Ba 233.527†	5.6	0.0016 mg/L	0.00159	0.0016 mg/L	0.00159	97.32%
Be 313.107†	11.2	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	60.93%
Ca 317.933†	130.7	0.0227 mg/L	0.00430	0.0227 mg/L	0.00430	18.95%
Cd 228.802†	12.1	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	52.81%
Co 228.616†	12.0	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	24.31%
Cr 267.716†	-2.0	-0.0000 mg/L	0.00019	-0.0000 mg/L	0.00019	439.26%
Cu 327.393†	440.5	0.0043 mg/L	0.00027	0.0043 mg/L	0.00027	6.12%
Fe 238.204†	4.3	0.0013 mg/L	0.00107	0.0013 mg/L	0.00107	83.90%
K 766.490†	101.1	0.0506 mg/L	0.03825	0.0506 mg/L	0.03825	75.58%
Mg 285.213†	24.7	0.0023 mg/L	0.00037	0.0023 mg/L	0.00037	15.65%
Mn 257.610†	-11.9	-0.0005 mg/L	0.00025	-0.0005 mg/L	0.00025	47.11%
Mo 202.031†	13.2	0.0009 mg/L	0.00044	0.0009 mg/L	0.00044	47.55%
Na 589.592†	153.8	0.0164 mg/L	0.00692	0.0164 mg/L	0.00692	42.07%
Ni 231.604†	26.7	0.0011 mg/L	0.00039	0.0011 mg/L	0.00039	35.03%
Pb 220.353†	-7.2	-0.0020 mg/L	0.00192	-0.0020 mg/L	0.00192	95.91%
Sb 206.836†	-2.8	-0.0014 mg/L	0.00098	-0.0014 mg/L	0.00098	68.91%
Se 196.026†	3.5	0.0022 mg/L	0.00141	0.0022 mg/L	0.00141	65.19%
Sn 189.927†	5.3	0.0012 mg/L	0.00109	0.0012 mg/L	0.00109	89.65%
Ti 337.279†	-46.3	-0.0025 mg/L	0.00137	-0.0025 mg/L	0.00137	54.44%
Tl 351.924†	-13.9	-0.0041 mg/L	0.00674	-0.0041 mg/L	0.00674	164.34%
V 290.880†	-44.6	-0.0007 mg/L	0.00041	-0.0007 mg/L	0.00041	58.87%
Zn 206.200†	29.7	0.0016 mg/L	0.00043	0.0016 mg/L	0.00043	27.60%
Zr 343.823†	26.3	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	25.16%

Batch ID: OPTIMA 3

Sequence No.: 50

Sample ID: B371351-BS1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 69

Date Collected: 4/18/2024 6:17:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151342.2	98.7	%	2.20	98.7	2.20	2.23%
Y axial	1980382.9	97.2	%	1.50	97.2	1.50	1.54%
Ag 328.068†	32660.7	0.6540	mg/L	0.00756	0.6540	0.00756	1.16%
Al 396.153†	2036.4	0.5234	mg/L	0.01677	0.5234	0.01677	3.20%
As 188.979†	565.8	0.4936	mg/L	0.00946	0.4936	0.00946	1.92%
B 208.889†	6925.6	0.9776	mg/L	0.01882	0.9776	0.01882	1.92%
Ba 233.527†	1775.2	0.5145	mg/L	0.01162	0.5145	0.01162	2.26%
Be 313.107†	143454.2	0.5247	mg/L	0.00132	0.5247	0.00132	0.25%
Ca 317.933†	23390.6	4.065	mg/L	0.1179	4.065	0.1179	2.90%
Cd 228.802†	15197.7	0.5271	mg/L	0.00937	0.5271	0.00937	1.78%
Co 228.616†	14634.1	0.5237	mg/L	0.00572	0.5237	0.00572	1.09%
Cr 267.716†	24796.9	0.5265	mg/L	0.00578	0.5265	0.00578	1.10%
Cu 327.393†	103872.2	1.024	mg/L	0.0089	1.024	0.0089	0.87%
Fe 238.204†	14376.3	4.244	mg/L	0.1211	4.244	0.1211	2.85%
K 766.490†	8588.8	4.299	mg/L	0.0833	4.299	0.0833	1.94%
Mg 285.213†	44709.3	4.244	mg/L	0.0150	4.244	0.0150	0.35%
Mn 257.610†	11767.2	0.5161	mg/L	0.01365	0.5161	0.01365	2.64%
Mo 202.031†	7355.6	0.5128	mg/L	0.00880	0.5128	0.00880	1.72%
Na 589.592†	39222.8	4.192	mg/L	0.0130	4.192	0.0130	0.31%
Ni 231.604†	11963.9	0.5026	mg/L	0.00314	0.5026	0.00314	0.62%
Pb 220.353†	1837.3	0.5094	mg/L	0.00905	0.5094	0.00905	1.78%
Sb 206.836†	1006.8	0.5253	mg/L	0.01143	0.5253	0.01143	2.18%
Se 196.026†	821.8	0.5149	mg/L	0.01055	0.5149	0.01055	2.05%
Sn 189.927†	2155.6	0.5026	mg/L	0.00871	0.5026	0.00871	1.73%
Ti 337.279†	9472.7	0.5139	mg/L	0.01304	0.5139	0.01304	2.54%
Tl 351.924†	1797.9	0.5333	mg/L	0.01031	0.5333	0.01031	1.93%
V 290.880†	32313.3	0.5300	mg/L	0.00642	0.5300	0.00642	1.21%
Zn 206.200†	19312.6	1.025	mg/L	0.0154	1.025	0.0154	1.50%
Zr 343.823†	147.2	0.0009	mg/L	0.00007	0.0009	0.00007	8.05%

Batch ID: OPTIMA 3

Sequence No.: 51

Autosampler Location: 70

Sample ID: B371351-BSD1

Date Collected: 4/18/2024 6:24:49 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: B371351-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152394.1	99.3	%	1.76	99.3	%	1.76	1.77%
Y axial	2004843.2	98.4	%	0.78	98.4	%	0.78	0.80%
Ag 328.068†	32380.7	0.6484	mg/L	0.00817	0.6484	mg/L	0.00817	1.26%
Al 396.153†	2009.4	0.5164	mg/L	0.00789	0.5164	mg/L	0.00789	1.53%
As 188.979†	552.9	0.4823	mg/L	0.00514	0.4823	mg/L	0.00514	1.07%
B 208.889†	6834.7	0.9647	mg/L	0.00404	0.9647	mg/L	0.00404	0.42%
Ba 233.527†	1743.3	0.5053	mg/L	0.00248	0.5053	mg/L	0.00248	0.49%
Be 313.107†	142234.5	0.5203	mg/L	0.00153	0.5203	mg/L	0.00153	0.29%
Ca 317.933†	23179.0	4.029	mg/L	0.0686	4.029	mg/L	0.0686	1.70%
Cd 228.802†	14977.1	0.5195	mg/L	0.00088	0.5195	mg/L	0.00088	0.17%
Co 228.616†	14421.5	0.5161	mg/L	0.00591	0.5161	mg/L	0.00591	1.15%
Cr 267.716†	24317.6	0.5163	mg/L	0.00838	0.5163	mg/L	0.00838	1.62%
Cu 327.393†	102734.8	1.013	mg/L	0.0101	1.013	mg/L	0.0101	1.00%
Fe 238.204†	14174.4	4.184	mg/L	0.0712	4.184	mg/L	0.0712	1.70%
K 766.490†	8422.3	4.216	mg/L	0.0735	4.216	mg/L	0.0735	1.74%
Mg 285.213†	44102.5	4.187	mg/L	0.0135	4.187	mg/L	0.0135	0.32%
Mn 257.610†	11645.3	0.5107	mg/L	0.00816	0.5107	mg/L	0.00816	1.60%
Mo 202.031†	7273.2	0.5071	mg/L	0.00165	0.5071	mg/L	0.00165	0.33%
Na 589.592†	38985.9	4.166	mg/L	0.0109	4.166	mg/L	0.0109	0.26%
Ni 231.604†	11913.5	0.5004	mg/L	0.00508	0.5004	mg/L	0.00508	1.02%
Pb 220.353†	1825.4	0.5061	mg/L	0.00118	0.5061	mg/L	0.00118	0.23%
Sb 206.836†	989.1	0.5161	mg/L	0.00051	0.5161	mg/L	0.00051	0.10%
Se 196.026†	806.1	0.5051	mg/L	0.00395	0.5051	mg/L	0.00395	0.78%
Sn 189.927†	2111.9	0.4925	mg/L	0.00317	0.4925	mg/L	0.00317	0.64%
Ti 337.279†	9351.7	0.5073	mg/L	0.00845	0.5073	mg/L	0.00845	1.67%
Tl 351.924†	1760.1	0.5221	mg/L	0.00183	0.5221	mg/L	0.00183	0.35%
V 290.880†	31904.9	0.5233	mg/L	0.00641	0.5233	mg/L	0.00641	1.22%
Zn 206.200†	19241.6	1.021	mg/L	0.0140	1.021	mg/L	0.0140	1.37%
Zr 343.823†	88.2	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	18.48%

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Batch ID: OPTIMA 3

Sequence No.: 52

Autosampler Location: 71

Sample ID: B371351-MS1

Date Collected: 4/18/2024 6:32:37 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Rinse Time (before sample): 220

Mean Data: B371351-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152230.8	99.2	%	1.02	99.2	%	1.02	1.03%
Y axial	1993522.2	97.9	%	1.10	97.9	%	1.10	1.12%
Ag 328.068†	31822.6	0.6372	mg/L	0.01428	0.6372	mg/L	0.01428	2.24%
Al 396.153†	2319.0	0.5981	mg/L	0.01052	0.5981	mg/L	0.01052	1.76%
As 188.979†	551.8	0.4814	mg/L	0.00434	0.4814	mg/L	0.00434	0.90%
B 208.889†	7127.3	1.007	mg/L	0.0103	1.007	mg/L	0.0103	1.02%
Ba 233.527†	1794.7	0.5202	mg/L	0.00687	0.5202	mg/L	0.00687	1.32%
Be 313.107†	140961.6	0.5156	mg/L	0.00117	0.5156	mg/L	0.00117	0.23%
Ca 317.933†	80191.9	13.94	mg/L	0.035	13.94	mg/L	0.035	0.25%
Cd 228.802†	14703.9	0.5099	mg/L	0.00658	0.5099	mg/L	0.00658	1.29%
Co 228.616†	14149.8	0.5064	mg/L	0.00555	0.5064	mg/L	0.00555	1.10%
Cr 267.716†	24462.0	0.5194	mg/L	0.00850	0.5194	mg/L	0.00850	1.64%
Cu 327.393†	102131.1	1.007	mg/L	0.0121	1.007	mg/L	0.0121	1.20%
Fe 238.204†	14724.4	4.346	mg/L	0.0409	4.346	mg/L	0.0409	0.94%
K 766.490†	10647.8	5.330	mg/L	0.0946	5.330	mg/L	0.0946	1.77%
Mg 285.213†	88799.9	8.424	mg/L	0.0225	8.424	mg/L	0.0225	0.27%
Mn 257.610†	11605.8	0.5090	mg/L	0.00459	0.5090	mg/L	0.00459	0.90%

Mo 202.031†	7218.4	0.5030 mg/L	0.00624	0.5030 mg/L	0.00624	1.24%
Na 589.592†	101307.4	10.83 mg/L	0.021	10.83 mg/L	0.021	0.20%
Ni 231.604†	11802.9	0.4958 mg/L	0.00801	0.4958 mg/L	0.00801	1.62%
Pb 220.353†	1787.1	0.4956 mg/L	0.00456	0.4956 mg/L	0.00456	0.92%
Sb 206.836†	983.8	0.5131 mg/L	0.00378	0.5131 mg/L	0.00378	0.74%
Se 196.026†	787.3	0.4932 mg/L	0.00234	0.4932 mg/L	0.00234	0.47%
Sn 189.927†	1998.7	0.4749 mg/L	0.00571	0.4749 mg/L	0.00571	1.20%
Ti 337.279†	9311.1	0.5051 mg/L	0.00479	0.5051 mg/L	0.00479	0.95%
Tl 351.924†	1752.5	0.5196 mg/L	0.00719	0.5196 mg/L	0.00719	1.38%
V 290.880†	31781.9	0.5210 mg/L	0.00593	0.5210 mg/L	0.00593	1.14%
Zn 206.200†	19104.5	1.013 mg/L	0.0140	1.013 mg/L	0.0140	1.38%
Zr 343.823†	69.9	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	15.23%

Batch ID: OPTIMA 3

Sequence No.: 53

Sample ID: B371351-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 72

Date Collected: 4/18/2024 6:40:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-MSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150655.6	98.2	%	1.20	98.2	%	1.20	1.22%
Y axial	1982972.4	97.3	%	2.35	97.3	%	2.35	2.42%
Ag 328.068†	32342.0	0.6476	mg/L	0.01434	0.6476	mg/L	0.01434	2.21%
Al 396.153†	2336.2	0.6024	mg/L	0.00978	0.6024	mg/L	0.00978	1.62%
As 188.979†	556.2	0.4853	mg/L	0.01725	0.4853	mg/L	0.01725	3.55%
B 208.889†	7213.4	1.019	mg/L	0.0239	1.019	mg/L	0.0239	2.35%
Ba 233.527†	1832.5	0.5312	mg/L	0.01377	0.5312	mg/L	0.01377	2.59%
Be 313.107†	143545.9	0.5250	mg/L	0.01266	0.5250	mg/L	0.01266	2.41%
Ca 317.933†	82274.3	14.30	mg/L	0.330	14.30	mg/L	0.330	2.31%
Cd 228.802†	14886.2	0.5162	mg/L	0.01329	0.5162	mg/L	0.01329	2.57%
Co 228.616†	14329.0	0.5128	mg/L	0.01325	0.5128	mg/L	0.01325	2.58%
Cr 267.716†	25258.5	0.5363	mg/L	0.02084	0.5363	mg/L	0.02084	3.89%
Cu 327.393†	105611.6	1.041	mg/L	0.0352	1.041	mg/L	0.0352	3.39%
Fe 238.204†	14967.0	4.418	mg/L	0.0436	4.418	mg/L	0.0436	0.99%
K 766.490†	10768.5	5.390	mg/L	0.1219	5.390	mg/L	0.1219	2.26%
Mg 285.213†	90628.0	8.598	mg/L	0.1935	8.598	mg/L	0.1935	2.25%
Mn 257.610†	11856.5	0.5200	mg/L	0.00501	0.5200	mg/L	0.00501	0.96%
Mo 202.031†	7323.7	0.5103	mg/L	0.01574	0.5103	mg/L	0.01574	3.08%
Na 589.592†	103625.5	11.07	mg/L	0.237	11.07	mg/L	0.237	2.14%
Ni 231.604†	12240.6	0.5142	mg/L	0.01823	0.5142	mg/L	0.01823	3.55%
Pb 220.353†	1808.9	0.5016	mg/L	0.01170	0.5016	mg/L	0.01170	2.33%
Sb 206.836†	995.5	0.5190	mg/L	0.01841	0.5190	mg/L	0.01841	3.55%
Se 196.026†	793.6	0.4972	mg/L	0.00936	0.4972	mg/L	0.00936	1.88%
Sn 189.927†	2016.2	0.4792	mg/L	0.01140	0.4792	mg/L	0.01140	2.38%
Ti 337.279†	9521.7	0.5165	mg/L	0.00681	0.5165	mg/L	0.00681	1.32%
Tl 351.924†	1750.1	0.5190	mg/L	0.01354	0.5190	mg/L	0.01354	2.61%
V 290.880†	32754.0	0.5368	mg/L	0.01871	0.5368	mg/L	0.01871	3.49%
Zn 206.200†	19841.0	1.053	mg/L	0.0373	1.053	mg/L	0.0373	3.54%
Zr 343.823†	76.3	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	15.02%

Batch ID: OPTIMA 3

Sequence No.: 54

Sample ID: 24D1470-01

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 73

Date Collected: 4/18/2024 6:48:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152462.8	99.4	%	0.67	99.4	%	0.67	0.68%

Y axial	2025657.7	99.4 %	0.36	99.4 %	0.36	0.36%
Ag 328.068†	-34.2	-0.0007 mg/L	0.00086	-0.0007 mg/L	0.00086	126.24%
Al 396.153†	320.1	0.0843 mg/L	0.00691	0.0843 mg/L	0.00691	8.19%
As 188.979†	10.1	0.0089 mg/L	0.00195	0.0089 mg/L	0.00195	21.93%
B 208.889†	292.0	0.0422 mg/L	0.00015	0.0422 mg/L	0.00015	0.35%
Ba 233.527†	72.7	0.0211 mg/L	0.00034	0.0211 mg/L	0.00034	1.59%
Be 313.107†	1.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	181.01%
Ca 317.933†	57071.1	9.922 mg/L	0.0134	9.922 mg/L	0.0134	0.14%
Cd 228.802†	2.6	-0.0000 mg/L	0.00018	-0.0000 mg/L	0.00018	>999.9%
Co 228.616†	12.5	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	44.63%
Cr 267.716†	334.5	0.0071 mg/L	0.00020	0.0071 mg/L	0.00020	2.80%
Cu 327.393†	522.0	0.0052 mg/L	0.00074	0.0052 mg/L	0.00074	14.43%
Fe 238.204†	705.2	0.2079 mg/L	0.00107	0.2079 mg/L	0.00107	0.52%
K 766.490†	2297.4	1.150 mg/L	0.0394	1.150 mg/L	0.0394	3.43%
Mg 285.213†	45051.0	4.271 mg/L	0.0146	4.271 mg/L	0.0146	0.34%
Mn 257.610†	117.2	0.0051 mg/L	0.00020	0.0051 mg/L	0.00020	3.83%
Mo 202.031†	24.4	0.0015 mg/L	0.00041	0.0015 mg/L	0.00041	28.43%
Na 589.592†	62643.3	6.694 mg/L	0.0292	6.694 mg/L	0.0292	0.44%
Ni 231.604†	110.1	0.0046 mg/L	0.00013	0.0046 mg/L	0.00013	2.79%
Pb 220.353†	-0.6	-0.0000 mg/L	0.00213	-0.0000 mg/L	0.00213	>999.9%
Sb 206.836†	1.3	0.0002 mg/L	0.00175	0.0002 mg/L	0.00175	737.86%
Se 196.026†	-2.4	-0.0016 mg/L	0.00661	-0.0016 mg/L	0.00661	411.16%
Sn 189.927†	-136.3	-0.0229 mg/L	0.00113	-0.0229 mg/L	0.00113	4.94%
Ti 337.279†	75.3	0.0041 mg/L	0.00240	0.0041 mg/L	0.00240	58.73%
Tl 351.924†	-6.0	-0.0019 mg/L	0.00482	-0.0019 mg/L	0.00482	248.49%
V 290.880†	-8.1	-0.0003 mg/L	0.00015	-0.0003 mg/L	0.00015	50.32%
Zn 206.200†	103.2	0.0049 mg/L	0.00047	0.0049 mg/L	0.00047	9.59%
Zr 343.823†	54.0	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	67.47%

Batch ID: OPTIMA 3

Sequence No.: 55

Sample ID: B371351-MS2

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 74

Date Collected: 4/18/2024 6:56:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-MS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	154742.6	101 %	%	1.42	101 %	%	1.42	1.41%
Y axial	1996709.1	98.0 %	%	2.17	98.0 %	%	2.17	2.21%
Ag 328.068†	31063.3	0.6220 mg/L	mg/L	0.00763	0.6220 mg/L	mg/L	0.00763	1.23%
Al 396.153†	2018.4	0.5142 mg/L	mg/L	0.00799	0.5142 mg/L	mg/L	0.00799	1.55%
As 188.979†	572.0	0.4991 mg/L	mg/L	0.01869	0.4991 mg/L	mg/L	0.01869	3.74%
B 208.889†	7129.2	1.007 mg/L	mg/L	0.0274	1.007 mg/L	mg/L	0.0274	2.72%
Ba 233.527†	1999.6	0.5796 mg/L	mg/L	0.01413	0.5796 mg/L	mg/L	0.01413	2.44%
Be 313.107†	143529.4	0.5250 mg/L	mg/L	0.00108	0.5250 mg/L	mg/L	0.00108	0.21%
Ca 317.933†	178522.9	31.04 mg/L	mg/L	0.062	31.04 mg/L	mg/L	0.062	0.20%
Cd 228.802†	14844.2	0.5146 mg/L	mg/L	0.01282	0.5146 mg/L	mg/L	0.01282	2.49%
Co 228.616†	14251.2	0.5101 mg/L	mg/L	0.01268	0.5101 mg/L	mg/L	0.01268	2.49%
Cr 267.716†	24513.1	0.5204 mg/L	mg/L	0.01210	0.5204 mg/L	mg/L	0.01210	2.33%
Cu 327.393†	101296.9	0.9988 mg/L	mg/L	0.02174	0.9988 mg/L	mg/L	0.02174	2.18%
Fe 238.204†	16217.9	4.787 mg/L	mg/L	0.0642	4.787 mg/L	mg/L	0.0642	1.34%
K 766.490†	27852.6	13.94 mg/L	mg/L	0.012	13.94 mg/L	mg/L	0.012	0.09%
Mg 285.213†	187018.8	17.74 mg/L	mg/L	0.017	17.74 mg/L	mg/L	0.017	0.10%
Mn 257.610†	16489.9	0.7231 mg/L	mg/L	0.00926	0.7231 mg/L	mg/L	0.00926	1.28%
Mo 202.031†	7276.4	0.5066 mg/L	mg/L	0.01269	0.5066 mg/L	mg/L	0.01269	2.50%
Na 589.592†	321988.9	34.41 mg/L	mg/L	0.031	34.41 mg/L	mg/L	0.031	0.09%
Ni 231.604†	11516.5	0.4837 mg/L	mg/L	0.01198	0.4837 mg/L	mg/L	0.01198	2.48%
Pb 220.353†	1773.5	0.4920 mg/L	mg/L	0.01308	0.4920 mg/L	mg/L	0.01308	2.66%
Sb 206.836†	1000.7	0.5213 mg/L	mg/L	0.01435	0.5213 mg/L	mg/L	0.01435	2.75%
Se 196.026†	792.5	0.4962 mg/L	mg/L	0.01570	0.4962 mg/L	mg/L	0.01570	3.16%
Sn 189.927†	1779.0	0.4426 mg/L	mg/L	0.01065	0.4426 mg/L	mg/L	0.01065	2.41%
Ti 337.279†	9311.9	0.5052 mg/L	mg/L	0.00586	0.5052 mg/L	mg/L	0.00586	1.16%
Tl 351.924†	1752.3	0.5192 mg/L	mg/L	0.01177	0.5192 mg/L	mg/L	0.01177	2.27%
V 290.880†	31947.1	0.5233 mg/L	mg/L	0.00968	0.5233 mg/L	mg/L	0.00968	1.85%
Zn 206.200†	18936.0	1.002 mg/L	mg/L	0.0221	1.002 mg/L	mg/L	0.0221	2.20%

Zr 343.823† 68.9 0.0004 mg/L 0.00011 0.0004 mg/L 0.00011 27.31%

Batch ID: OPTIMA 3

Sequence No.: 56

Sample ID: B371351-MSD2

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 75

Date Collected: 4/18/2024 7:03:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371351-MSD2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154955.1	101	%	2.62	101	%	2.62	2.59%
Y axial	1983726.3	97.4	%	0.51	97.4	%	0.51	0.52%
Ag 328.068†	31306.7	0.6268	mg/L	0.00427	0.6268	mg/L	0.00427	0.68%
Al 396.153†	2000.1	0.5094	mg/L	0.01398	0.5094	mg/L	0.01398	2.74%
As 188.979†	569.3	0.4967	mg/L	0.00325	0.4967	mg/L	0.00325	0.66%
B 208.889†	7169.1	1.013	mg/L	0.0051	1.013	mg/L	0.0051	0.50%
Ba 233.527†	2008.6	0.5822	mg/L	0.00318	0.5822	mg/L	0.00318	0.55%
Be 313.107†	143581.4	0.5252	mg/L	0.00079	0.5252	mg/L	0.00079	0.15%
Ca 317.933†	177471.8	30.85	mg/L	0.078	30.85	mg/L	0.078	0.25%
Cd 228.802†	14868.4	0.5155	mg/L	0.00179	0.5155	mg/L	0.00179	0.35%
Co 228.616†	14165.5	0.5070	mg/L	0.00183	0.5070	mg/L	0.00183	0.36%
Cr 267.716†	24662.1	0.5236	mg/L	0.00363	0.5236	mg/L	0.00363	0.69%
Cu 327.393†	101600.5	1.002	mg/L	0.0017	1.002	mg/L	0.0017	0.17%
Fe 238.204†	16188.0	4.778	mg/L	0.1261	4.778	mg/L	0.1261	2.64%
K 766.490†	27697.0	13.87	mg/L	0.112	13.87	mg/L	0.112	0.81%
Mg 285.213†	186415.6	17.68	mg/L	0.077	17.68	mg/L	0.077	0.44%
Mn 257.610†	16400.6	0.7192	mg/L	0.01787	0.7192	mg/L	0.01787	2.48%
Mo 202.031†	7247.0	0.5046	mg/L	0.00270	0.5046	mg/L	0.00270	0.54%
Na 589.592†	320079.0	34.20	mg/L	0.172	34.20	mg/L	0.172	0.50%
Ni 231.604†	11493.6	0.4828	mg/L	0.00131	0.4828	mg/L	0.00131	0.27%
Pb 220.353†	1763.9	0.4893	mg/L	0.00177	0.4893	mg/L	0.00177	0.36%
Sb 206.836†	998.1	0.5199	mg/L	0.00424	0.5199	mg/L	0.00424	0.81%
Se 196.026†	796.5	0.4986	mg/L	0.00352	0.4986	mg/L	0.00352	0.71%
Sn 189.927†	1778.5	0.4424	mg/L	0.00388	0.4424	mg/L	0.00388	0.88%
Ti 337.279†	9267.4	0.5027	mg/L	0.01323	0.5027	mg/L	0.01323	2.63%
Tl 351.924†	1755.3	0.5201	mg/L	0.00351	0.5201	mg/L	0.00351	0.68%
V 290.880†	31925.6	0.5229	mg/L	0.00257	0.5229	mg/L	0.00257	0.49%
Zn 206.200†	18955.3	1.004	mg/L	0.0049	1.004	mg/L	0.0049	0.49%
Zr 343.823†	64.5	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.82%

Batch ID: OPTIMA 3

Sequence No.: 57

Sample ID: 24D1470-05

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 76

Date Collected: 4/18/2024 7:11:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	152776.5	99.6	%	1.19	99.6	%	1.19	1.20%
Y axial	1992854.3	97.8	%	1.93	97.8	%	1.93	1.97%
Ag 328.068†	-39.1	-0.0008	mg/L	0.00112	-0.0008	mg/L	0.00112	138.54%
Al 396.153†	38.1	0.0056	mg/L	0.01370	0.0056	mg/L	0.01370	244.74%
As 188.979†	5.7	0.0051	mg/L	0.00178	0.0051	mg/L	0.00178	34.94%
B 208.889†	255.2	0.0368	mg/L	0.00083	0.0368	mg/L	0.00083	2.25%
Ba 233.527†	243.2	0.0705	mg/L	0.00252	0.0705	mg/L	0.00252	3.57%
Be 313.107†	12.0	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	119.50%
Ca 317.933†	155257.0	26.99	mg/L	0.098	26.99	mg/L	0.098	0.36%
Cd 228.802†	15.0	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	8.66%
Co 228.616†	111.0	0.0040	mg/L	0.00022	0.0040	mg/L	0.00022	5.37%
Cr 267.716†	391.0	0.0082	mg/L	0.00007	0.0082	mg/L	0.00007	0.79%

Cu 327.393†	496.5	0.0049 mg/L	0.00081	0.0049 mg/L	0.00081	16.42%
Fe 238.204†	2152.3	0.6347 mg/L	0.00975	0.6347 mg/L	0.00975	1.54%
K 766.490†	19709.4	9.867 mg/L	0.0045	9.867 mg/L	0.0045	0.05%
Mg 285.213†	144229.1	13.68 mg/L	0.027	13.68 mg/L	0.027	0.20%
Mn 257.610†	5019.7	0.2201 mg/L	0.00337	0.2201 mg/L	0.00337	1.53%
Mo 202.031†	31.4	0.0015 mg/L	0.00041	0.0015 mg/L	0.00041	27.11%
Na 589.592†	285541.6	30.51 mg/L	0.058	30.51 mg/L	0.058	0.19%
Ni 231.604†	87.1	0.0036 mg/L	0.00022	0.0036 mg/L	0.00022	5.94%
Pb 220.353†	-4.1	-0.0008 mg/L	0.00141	-0.0008 mg/L	0.00141	168.21%
Sb 206.836†	-1.9	-0.0020 mg/L	0.00302	-0.0020 mg/L	0.00302	149.83%
Se 196.026†	-0.2	-0.0005 mg/L	0.00370	-0.0005 mg/L	0.00370	704.85%
Sn 189.927†	-383.1	-0.0611 mg/L	0.00381	-0.0611 mg/L	0.00381	6.23%
Ti 337.279†	-5.4	-0.0003 mg/L	0.00073	-0.0003 mg/L	0.00073	251.73%
Tl 351.924†	8.9	0.0020 mg/L	0.02044	0.0020 mg/L	0.02044	>999.9%
V 290.880†	63.8	0.0004 mg/L	0.00065	0.0004 mg/L	0.00065	174.52%
Zn 206.200†	85.7	0.0019 mg/L	0.00053	0.0019 mg/L	0.00053	27.77%
Zr 343.823†	13.7	0.0001 mg/L	0.00022	0.0001 mg/L	0.00022	280.86%

Batch ID: OPTIMA 3

Sequence No.: 58

Sample ID: 24D1470-02

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 77

Date Collected: 4/18/2024 7:17:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	149943.0	97.7 %		1.84	97.7 %	1.84	1.88%
Y axial	1980893.6	97.2 %		0.68	97.2 %	0.68	0.70%
Ag 328.068†	-55.1	-0.0011 mg/L		0.00076	-0.0011 mg/L	0.00076	68.84%
Al 396.153†	1307.9	0.3482 mg/L		0.01339	0.3482 mg/L	0.01339	3.84%
As 188.979†	5.3	0.0047 mg/L		0.00391	0.0047 mg/L	0.00391	83.70%
B 208.889†	659.9	0.0953 mg/L		0.00021	0.0953 mg/L	0.00021	0.22%
Ba 233.527†	101.9	0.0295 mg/L		0.00124	0.0295 mg/L	0.00124	4.21%
Be 313.107†	25.1	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	54.23%
Ca 317.933†	112369.9	19.54 mg/L		0.078	19.54 mg/L	0.078	0.40%
Cd 228.802†	14.0	0.0004 mg/L		0.00010	0.0004 mg/L	0.00010	22.57%
Co 228.616†	26.8	0.0009 mg/L		0.00033	0.0009 mg/L	0.00033	35.33%
Cr 267.716†	669.4	0.0142 mg/L		0.00024	0.0142 mg/L	0.00024	1.70%
Cu 327.393†	542.8	0.0054 mg/L		0.00008	0.0054 mg/L	0.00008	1.41%
Fe 238.204†	507.5	0.1496 mg/L		0.00245	0.1496 mg/L	0.00245	1.64%
K 766.490†	18227.7	9.125 mg/L		0.0050	9.125 mg/L	0.0050	0.05%
Mg 285.213†	100279.3	9.508 mg/L		0.0173	9.508 mg/L	0.0173	0.18%
Mn 257.610†	783.9	0.0344 mg/L		0.00012	0.0344 mg/L	0.00012	0.36%
Mo 202.031†	68.9	0.0043 mg/L		0.00023	0.0043 mg/L	0.00023	5.40%
Na 589.592†	192707.3	20.59 mg/L		0.015	20.59 mg/L	0.015	0.07%
Ni 231.604†	173.0	0.0073 mg/L		0.00072	0.0073 mg/L	0.00072	9.94%
Pb 220.353†	-2.6	-0.0004 mg/L		0.00207	-0.0004 mg/L	0.00207	481.61%
Sb 206.836†	0.7	-0.0005 mg/L		0.00168	-0.0005 mg/L	0.00168	334.91%
Se 196.026†	-1.7	-0.0016 mg/L		0.00466	-0.0016 mg/L	0.00466	288.84%
Sn 189.927†	-293.8	-0.0488 mg/L		0.00217	-0.0488 mg/L	0.00217	4.45%
Ti 337.279†	308.4	0.0167 mg/L		0.00044	0.0167 mg/L	0.00044	2.65%
Tl 351.924†	-8.9	-0.0030 mg/L		0.01018	-0.0030 mg/L	0.01018	343.48%
V 290.880†	161.2	0.0023 mg/L		0.00114	0.0023 mg/L	0.00114	50.68%
Zn 206.200†	365.8	0.0177 mg/L		0.00051	0.0177 mg/L	0.00051	2.87%
Zr 343.823†	36.1	0.0002 mg/L		0.00011	0.0002 mg/L	0.00011	52.08%

Batch ID: OPTIMA 3

Sequence No.: 59

Sample ID: SEQ-CCV@ 23IJ0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 7:25:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151806.0	99.0 %	1.23	99.0 %	1.23	1.24%
Y axial	1974805.5	96.9 %	1.49	96.9 %	1.49	1.53%
Ag 328.068†	104232.8	2.087 mg/L	0.0190	2.087 mg/L	0.0190	0.91%
QC value less than the lower limit for				Ag 328.068 Recovery =	83.47%	
Al 396.153†	37949.3	9.979 mg/L	0.0327	9.979 mg/L	0.0327	0.33%
QC value within limits for				Al 396.153 Recovery =	99.79%	
As 188.979†	5618.9	4.898 mg/L	0.0435	4.898 mg/L	0.0435	0.89%
QC value within limits for				As 188.979 Recovery =	97.96%	
B 208.889†	33289.8	4.583 mg/L	0.0527	4.583 mg/L	0.0527	1.15%
QC value within limits for				B 208.889 Recovery =	91.66%	
Ba 233.527†	17053.6	4.945 mg/L	0.1495	4.945 mg/L	0.1495	3.02%
QC value within limits for				Ba 233.527 Recovery =	98.89%	
Be 313.107†	1387322.3	5.075 mg/L	0.0718	5.075 mg/L	0.0718	1.42%
QC value within limits for				Be 313.107 Recovery =	101.50%	
Ca 317.933†	55796.7	9.699 mg/L	0.0212	9.699 mg/L	0.0212	0.22%
QC value within limits for				Ca 317.933 Recovery =	96.99%	
Cd 228.802†	144167.6	4.997 mg/L	0.0193	4.997 mg/L	0.0193	0.39%
QC value within limits for				Cd 228.802 Recovery =	99.95%	
Co 228.616†	140225.7	5.018 mg/L	0.0173	5.018 mg/L	0.0173	0.35%
QC value within limits for				Co 228.616 Recovery =	100.36%	
Cr 267.716†	237755.9	5.047 mg/L	0.0163	5.047 mg/L	0.0163	0.32%
QC value within limits for				Cr 267.716 Recovery =	100.93%	
Cu 327.393†	496526.3	4.900 mg/L	0.0137	4.900 mg/L	0.0137	0.28%
QC value within limits for				Cu 327.393 Recovery =	97.99%	
Fe 238.204†	16814.6	5.002 mg/L	0.0243	5.002 mg/L	0.0243	0.49%
QC value within limits for				Fe 238.204 Recovery =	100.05%	
K 766.490†	20086.9	10.06 mg/L	0.030	10.06 mg/L	0.030	0.30%
QC value within limits for				K 766.490 Recovery =	100.55%	
Mg 285.213†	107544.9	10.21 mg/L	0.024	10.21 mg/L	0.024	0.23%
QC value within limits for				Mg 285.213 Recovery =	102.08%	
Mn 257.610†	112455.2	4.931 mg/L	0.0090	4.931 mg/L	0.0090	0.18%
QC value within limits for				Mn 257.610 Recovery =	98.63%	
Mo 202.031†	69767.9	4.862 mg/L	0.0145	4.862 mg/L	0.0145	0.30%
QC value within limits for				Mo 202.031 Recovery =	97.24%	
Na 589.592†	93615.1	10.00 mg/L	0.029	10.00 mg/L	0.029	0.29%
QC value within limits for				Na 589.592 Recovery =	100.04%	
Ni 231.604†	113973.6	4.788 mg/L	0.0191	4.788 mg/L	0.0191	0.40%
QC value within limits for				Ni 231.604 Recovery =	95.76%	
Pb 220.353†	17458.1	4.844 mg/L	0.0552	4.844 mg/L	0.0552	1.14%
QC value within limits for				Pb 220.353 Recovery =	96.88%	
Sb 206.836†	9483.7	4.951 mg/L	0.0491	4.951 mg/L	0.0491	0.99%
QC value within limits for				Sb 206.836 Recovery =	99.02%	
Se 196.026†	7949.3	4.939 mg/L	0.0478	4.939 mg/L	0.0478	0.97%
QC value within limits for				Se 196.026 Recovery =	98.78%	
Sn 189.927†	21709.0	5.000 mg/L	0.0477	5.000 mg/L	0.0477	0.95%
QC value within limits for				Sn 189.927 Recovery =	100.00%	
Ti 337.279†	91333.9	4.955 mg/L	0.0161	4.955 mg/L	0.0161	0.33%
QC value within limits for				Ti 337.279 Recovery =	99.09%	
Tl 351.924†	8532.2	2.541 mg/L	0.0159	2.541 mg/L	0.0159	0.63%
QC value within limits for				Tl 351.924 Recovery =	101.63%	
V 290.880†	310574.9	5.096 mg/L	0.0157	5.096 mg/L	0.0157	0.31%
QC value within limits for				V 290.880 Recovery =	101.93%	
Zn 206.200†	91516.4	4.886 mg/L	0.0131	4.886 mg/L	0.0131	0.27%
QC value within limits for				Zn 206.200 Recovery =	97.71%	
Zr 343.823†	830450.0	4.816 mg/L	0.0059	4.816 mg/L	0.0059	0.12%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 60

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 7:32:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	149351.6	97.4 %	0.88	97.4 %	0.88	0.90%
Y axial	2003444.0	98.3 %	0.66	98.3 %	0.66	0.67%
Ag 328.068†	1449.6	0.0290 mg/L	0.00087	0.0290 mg/L	0.00087	2.99%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-43.6	-0.0118 mg/L	0.00543	-0.0118 mg/L	0.00543	46.12%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	3.2	0.0028 mg/L	0.00021	0.0028 mg/L	0.00021	7.36%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	139.8	0.0202 mg/L	0.00109	0.0202 mg/L	0.00109	5.39%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	0.3	0.0001 mg/L	0.00109	0.0001 mg/L	0.00109	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	32.6	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	6.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	16.4	0.0029 mg/L	0.00224	0.0029 mg/L	0.00224	78.55%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	13.3	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.78%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	13.6	0.0005 mg/L	0.00036	0.0005 mg/L	0.00036	74.27%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-18.9	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	27.69%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	82.7	0.0008 mg/L	0.00064	0.0008 mg/L	0.00064	78.59%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	0.1	0.0000 mg/L	0.00120	0.0000 mg/L	0.00120	>999.9%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	155.2	0.0777 mg/L	0.03522	0.0777 mg/L	0.03522	45.35%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	10.8	0.0010 mg/L	0.00033	0.0010 mg/L	0.00033	31.89%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-15.0	-0.0007 mg/L	0.00035	-0.0007 mg/L	0.00035	53.34%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	14.9	0.0010 mg/L	0.00042	0.0010 mg/L	0.00042	40.65%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	103.1	0.0110 mg/L	0.01209	0.0110 mg/L	0.01209	109.81%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	26.1	0.0011 mg/L	0.00024	0.0011 mg/L	0.00024	21.74%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-1.8	-0.0005 mg/L	0.00191	-0.0005 mg/L	0.00191	381.87%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	0.5	0.0002 mg/L	0.00365	0.0002 mg/L	0.00365	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	12.3	0.0076 mg/L	0.00322	0.0076 mg/L	0.00322	42.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	2.6	0.0006 mg/L	0.00151	0.0006 mg/L	0.00151	256.41%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-6.1	-0.0003 mg/L	0.00121	-0.0003 mg/L	0.00121	363.25%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-29.1	-0.0086 mg/L	0.00573	-0.0086 mg/L	0.00573	66.94%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-42.0	-0.0006 mg/L	0.00018	-0.0006 mg/L	0.00018	27.01%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	23.7	0.0012 mg/L	0.00025	0.0012 mg/L	0.00025	20.11%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	6.1	0.0000 mg/L	0.00022	0.0000 mg/L	0.00022	609.12%
QC Failed. Continue with analysis.						

Batch ID: OPTIMA 3

Sequence No.: 61

Sample ID: 24D1470-03

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 78

Date Collected: 4/18/2024 7:38:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150954.0	98.4	%	0.67	98.4	%	0.67	0.68%
Y axial	1985325.2	97.5	%	2.09	97.5	%	2.09	2.14%
Ag 328.068†	358.8	0.0072	mg/L	0.00071	0.0072	mg/L	0.00071	9.92%
Al 396.153†	1093.9	0.2920	mg/L	0.01205	0.2920	mg/L	0.01205	4.13%
As 188.979†	4.3	0.0039	mg/L	0.00290	0.0039	mg/L	0.00290	74.47%
B 208.889†	711.8	0.1029	mg/L	0.00213	0.1029	mg/L	0.00213	2.07%
Ba 233.527†	249.5	0.0724	mg/L	0.00139	0.0724	mg/L	0.00139	1.92%
Be 313.107†	20.1	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	57.93%
Ca 317.933†	69960.1	12.16	mg/L	0.013	12.16	mg/L	0.013	0.10%
Cd 228.802†	10.8	0.0003	mg/L	0.00032	0.0003	mg/L	0.00032	97.27%
Co 228.616†	13.6	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	22.69%
Cr 267.716†	1430.9	0.0304	mg/L	0.00078	0.0304	mg/L	0.00078	2.57%
Cu 327.393†	624.9	0.0062	mg/L	0.00044	0.0062	mg/L	0.00044	7.14%
Fe 238.204†	1019.8	0.3007	mg/L	0.00136	0.3007	mg/L	0.00136	0.45%
K 766.490†	14870.7	7.445	mg/L	0.0852	7.445	mg/L	0.0852	1.14%
Mg 285.213†	70709.9	6.705	mg/L	0.0145	6.705	mg/L	0.0145	0.22%
Mn 257.610†	1194.5	0.0524	mg/L	0.00030	0.0524	mg/L	0.00030	0.57%
Mo 202.031†	49.8	0.0032	mg/L	0.00027	0.0032	mg/L	0.00027	8.60%
Na 589.592†	190186.0	20.32	mg/L	0.022	20.32	mg/L	0.022	0.11%
Ni 231.604†	424.0	0.0178	mg/L	0.00087	0.0178	mg/L	0.00087	4.88%
Pb 220.353†	2.1	0.0008	mg/L	0.00054	0.0008	mg/L	0.00054	71.97%
Sb 206.836†	5.9	0.0021	mg/L	0.00315	0.0021	mg/L	0.00315	150.57%
Se 196.026†	7.5	0.0045	mg/L	0.00285	0.0045	mg/L	0.00285	62.79%
Sn 189.927†	-211.5	-0.0354	mg/L	0.00271	-0.0354	mg/L	0.00271	7.64%
Ti 337.279†	107.6	0.0058	mg/L	0.00079	0.0058	mg/L	0.00079	13.52%
Tl 351.924†	-44.9	-0.0134	mg/L	0.00306	-0.0134	mg/L	0.00306	22.88%
V 290.880†	60.8	0.0008	mg/L	0.00070	0.0008	mg/L	0.00070	85.43%
Zn 206.200†	173.2	0.0077	mg/L	0.00014	0.0077	mg/L	0.00014	1.88%
Zr 343.823†	158.4	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	10.20%

Batch ID: OPTIMA 3

Sequence No.: 62

Sample ID: 24D1470-04

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 79

Date Collected: 4/18/2024 7:45:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	150116.2	97.9	%	0.96	97.9	%	0.96	0.98%
Y axial	1985393.4	97.5	%	0.64	97.5	%	0.64	0.66%
Ag 328.068†	-1.7	-0.0000	mg/L	0.00050	-0.0000	mg/L	0.00050	>999.9%
Al 396.153†	152.1	0.0386	mg/L	0.01239	0.0386	mg/L	0.01239	32.11%
As 188.979†	0.6	0.0005	mg/L	0.00412	0.0005	mg/L	0.00412	901.25%
B 208.889†	403.2	0.0583	mg/L	0.00131	0.0583	mg/L	0.00131	2.25%
Ba 233.527†	102.6	0.0297	mg/L	0.00041	0.0297	mg/L	0.00041	1.39%
Be 313.107†	5.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	86.57%
Ca 317.933†	76798.7	13.35	mg/L	0.021	13.35	mg/L	0.021	0.15%
Cd 228.802†	10.4	0.0004	mg/L	0.00019	0.0004	mg/L	0.00019	50.39%
Co 228.616†	154.1	0.0055	mg/L	0.00036	0.0055	mg/L	0.00036	6.48%
Cr 267.716†	13.6	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	33.65%
Cu 327.393†	690.6	0.0068	mg/L	0.00112	0.0068	mg/L	0.00112	16.47%
Fe 238.204†	191.8	0.0566	mg/L	0.00080	0.0566	mg/L	0.00080	1.41%
K 766.490†	5968.3	2.988	mg/L	0.0467	2.988	mg/L	0.0467	1.56%
Mg 285.213†	94943.9	9.004	mg/L	0.0292	9.004	mg/L	0.0292	0.32%
Mn 257.610†	482.0	0.0211	mg/L	0.00053	0.0211	mg/L	0.00053	2.49%
Mo 202.031†	25.1	0.0014	mg/L	0.00075	0.0014	mg/L	0.00075	53.75%
Na 589.592†	217588.2	23.25	mg/L	0.055	23.25	mg/L	0.055	0.24%
Ni 231.604†	385.3	0.0162	mg/L	0.00021	0.0162	mg/L	0.00021	1.32%
Pb 220.353†	0.5	0.0003	mg/L	0.00135	0.0003	mg/L	0.00135	435.38%
Sb 206.836†	2.0	0.0004	mg/L	0.00244	0.0004	mg/L	0.00244	607.41%
Se 196.026†	-4.4	-0.0032	mg/L	0.00042	-0.0032	mg/L	0.00042	13.21%

Sn 189.927†	-276.9	-0.0461 mg/L	0.00199	-0.0461 mg/L	0.00199	4.31%
Ti 337.279†	49.4	0.0027 mg/L	0.00090	0.0027 mg/L	0.00090	33.42%
Tl 351.924†	26.2	0.0075 mg/L	0.00978	0.0075 mg/L	0.00978	130.76%
V 290.880†	18.5	-0.0001 mg/L	0.00026	-0.0001 mg/L	0.00026	211.13%
Zn 206.200†	1725.2	0.0891 mg/L	0.00023	0.0891 mg/L	0.00023	0.26%
Zr 343.823†	38.8	0.0002 mg/L	0.00022	0.0002 mg/L	0.00022	99.78%

Batch ID: OPTIMA 3

Sequence No.: 63

Sample ID: 24D1470-06

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 80

Date Collected: 4/18/2024 7:53:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-06

	Mean Corrected		Calib.			Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	149730.1	97.6	%	1.16	97.6	%	1.16	1.19%
Y axial	1977584.0	97.1	%	1.88	97.1	%	1.88	1.93%
Ag 328.068†	-39.3	-0.0008	mg/L	0.00006	-0.0008	mg/L	0.00006	7.80%
Al 396.153†	99.2	0.0224	mg/L	0.00530	0.0224	mg/L	0.00530	23.66%
As 188.979†	7.7	0.0067	mg/L	0.00196	0.0067	mg/L	0.00196	29.32%
B 208.889†	486.8	0.0704	mg/L	0.00141	0.0704	mg/L	0.00141	2.00%
Ba 233.527†	292.2	0.0848	mg/L	0.00123	0.0848	mg/L	0.00123	1.45%
Be 313.107†	5.9	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	205.07%
Ca 317.933†	143390.8	24.93	mg/L	0.132	24.93	mg/L	0.132	0.53%
Cd 228.802†	12.8	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	60.56%
Co 228.616†	17.8	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	23.37%
Cr 267.716†	21.4	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	49.47%
Cu 327.393†	594.6	0.0059	mg/L	0.00043	0.0059	mg/L	0.00043	7.29%
Fe 238.204†	225.8	0.0666	mg/L	0.00122	0.0666	mg/L	0.00122	1.83%
K 766.490†	3251.0	1.628	mg/L	0.0366	1.628	mg/L	0.0366	2.25%
Mg 285.213†	130664.4	12.39	mg/L	0.030	12.39	mg/L	0.030	0.25%
Mn 257.610†	101.0	0.0044	mg/L	0.00016	0.0044	mg/L	0.00016	3.52%
Mo 202.031†	21.0	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	49.57%
Na 589.592†	193605.4	20.69	mg/L	0.009	20.69	mg/L	0.009	0.04%
Ni 231.604†	61.1	0.0026	mg/L	0.00028	0.0026	mg/L	0.00028	10.97%
Pb 220.353†	-6.2	-0.0014	mg/L	0.00082	-0.0014	mg/L	0.00082	58.28%
Sb 206.836†	3.1	0.0008	mg/L	0.00415	0.0008	mg/L	0.00415	546.57%
Se 196.026†	-7.9	-0.0058	mg/L	0.00425	-0.0058	mg/L	0.00425	72.97%
Sn 189.927†	-374.4	-0.0617	mg/L	0.00274	-0.0617	mg/L	0.00274	4.44%
Ti 337.279†	14.4	0.0008	mg/L	0.00089	0.0008	mg/L	0.00089	113.21%
Tl 351.924†	3.7	0.0006	mg/L	0.00205	0.0006	mg/L	0.00205	365.54%
V 290.880†	48.3	0.0002	mg/L	0.00058	0.0002	mg/L	0.00058	323.81%
Zn 206.200†	156.1	0.0065	mg/L	0.00027	0.0065	mg/L	0.00027	4.13%
Zr 343.823†	24.1	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	162.71%

Batch ID: OPTIMA 3

Sequence No.: 64

Sample ID: 24D1470-07

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 81

Date Collected: 4/18/2024 8:01:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	148935.4	97.1	%	0.80	97.1	%	0.80	0.83%
Y axial	1964963.7	96.5	%	1.22	96.5	%	1.22	1.26%
Ag 328.068†	-123.4	-0.0023	mg/L	0.00099	-0.0023	mg/L	0.00099	42.72%
Al 396.153†	1573.0	0.4194	mg/L	0.00366	0.4194	mg/L	0.00366	0.87%
As 188.979†	5.4	0.0057	mg/L	0.00313	0.0057	mg/L	0.00313	55.29%
B 208.889†	612.9	0.0886	mg/L	0.00157	0.0886	mg/L	0.00157	1.78%
Ba 233.527†	312.6	0.0905	mg/L	0.00250	0.0905	mg/L	0.00250	2.77%

Be 313.107†	6.7	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	513.68%
Ca 317.933†	128013.8	22.25 mg/L	0.124	22.25 mg/L	0.124	0.56%
Cd 228.802†	13.4	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	45.70%
Co 228.616†	52.6	0.0019 mg/L	0.00029	0.0019 mg/L	0.00029	15.31%
Cr 267.716†	722.4	0.0155 mg/L	0.00016	0.0155 mg/L	0.00016	1.01%
Cu 327.393†	750.6	0.0076 mg/L	0.00028	0.0076 mg/L	0.00028	3.73%
Fe 238.204†	17806.7	5.251 mg/L	0.0125	5.251 mg/L	0.0125	0.24%
K 766.490†	3112.5	1.557 mg/L	0.0329	1.557 mg/L	0.0329	2.11%
Mg 285.213†	107801.0	10.23 mg/L	0.033	10.23 mg/L	0.033	0.32%
Mn 257.610†	543.4	0.0239 mg/L	0.00034	0.0239 mg/L	0.00034	1.41%
Mo 202.031†	40.8	0.0027 mg/L	0.00068	0.0027 mg/L	0.00068	25.14%
Na 589.592†	183018.1	19.56 mg/L	0.025	19.56 mg/L	0.025	0.13%
Ni 231.604†	117.3	0.0049 mg/L	0.00034	0.0049 mg/L	0.00034	6.81%
Pb 220.353†	-9.2	-0.0025 mg/L	0.00102	-0.0025 mg/L	0.00102	41.26%
Sb 206.836†	4.9	0.0015 mg/L	0.00149	0.0015 mg/L	0.00149	99.89%
Se 196.026†	-11.8	-0.0019 mg/L	0.00344	-0.0019 mg/L	0.00344	177.72%
Sn 189.927†	-316.8	-0.0526 mg/L	0.00365	-0.0526 mg/L	0.00365	6.94%
Ti 337.279†	121.4	0.0066 mg/L	0.00017	0.0066 mg/L	0.00017	2.64%
Tl 351.924†	-18.5	-0.0058 mg/L	0.00471	-0.0058 mg/L	0.00471	81.98%
V 290.880†	163.4	0.0019 mg/L	0.00119	0.0019 mg/L	0.00119	64.30%
Zn 206.200†	257.3	0.0116 mg/L	0.00041	0.0116 mg/L	0.00041	3.55%
Zr 343.823†	101.7	0.0006 mg/L	0.00022	0.0006 mg/L	0.00022	37.97%

Batch ID: OPTIMA 3

Sequence No.: 65

Sample ID: 24D1470-08

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 82

Date Collected: 4/18/2024 8:09:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	149434.6	97.4	%	1.69	97.4	%	1.69	1.74%
Y axial	1980864.3	97.2	%	0.26	97.2	%	0.26	0.27%
Ag 328.068†	-68.6	-0.0014	mg/L	0.00075	-0.0014	mg/L	0.00075	53.62%
Al 396.153†	12.3	-0.0008	mg/L	0.00966	-0.0008	mg/L	0.00966	>999.9%
As 188.979†	4.1	0.0036	mg/L	0.00181	0.0036	mg/L	0.00181	50.69%
B 208.889†	373.8	0.0540	mg/L	0.00077	0.0540	mg/L	0.00077	1.43%
Ba 233.527†	279.3	0.0810	mg/L	0.00064	0.0810	mg/L	0.00064	0.79%
Be 313.107†	15.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	49.35%
Ca 317.933†	135185.5	23.50	mg/L	0.058	23.50	mg/L	0.058	0.25%
Cd 228.802†	10.5	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	25.77%
Co 228.616†	181.7	0.0065	mg/L	0.00021	0.0065	mg/L	0.00021	3.23%
Cr 267.716†	241.2	0.0051	mg/L	0.00016	0.0051	mg/L	0.00016	3.06%
Cu 327.393†	451.0	0.0044	mg/L	0.00016	0.0044	mg/L	0.00016	3.56%
Fe 238.204†	220.9	0.0652	mg/L	0.00100	0.0652	mg/L	0.00100	1.53%
K 766.490†	54539.6	27.30	mg/L	0.088	27.30	mg/L	0.088	0.32%
Mg 285.213†	126465.6	11.99	mg/L	0.041	11.99	mg/L	0.041	0.34%
Mn 257.610†	2213.9	0.0971	mg/L	0.00130	0.0971	mg/L	0.00130	1.34%
Mo 202.031†	23.5	0.0010	mg/L	0.00026	0.0010	mg/L	0.00026	25.42%
Na 589.592†	216177.4	23.10	mg/L	0.043	23.10	mg/L	0.043	0.18%
Ni 231.604†	843.4	0.0355	mg/L	0.00025	0.0355	mg/L	0.00025	0.71%
Pb 220.353†	-2.4	-0.0004	mg/L	0.00054	-0.0004	mg/L	0.00054	148.31%
Sb 206.836†	4.0	0.0012	mg/L	0.00178	0.0012	mg/L	0.00178	147.57%
Se 196.026†	-6.8	-0.0051	mg/L	0.00495	-0.0051	mg/L	0.00495	97.37%
Sn 189.927†	-348.5	-0.0565	mg/L	0.00161	-0.0565	mg/L	0.00161	2.85%
Ti 337.279†	-4.1	-0.0002	mg/L	0.00062	-0.0002	mg/L	0.00062	279.86%
Tl 351.924†	-31.9	-0.0099	mg/L	0.01632	-0.0099	mg/L	0.01632	164.93%
V 290.880†	80.9	0.0007	mg/L	0.00161	0.0007	mg/L	0.00161	215.99%
Zn 206.200†	76.8	0.0021	mg/L	0.00028	0.0021	mg/L	0.00028	13.46%
Zr 343.823†	8.7	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	333.87%

Batch ID: OPTIMA 3

Sequence No.: 66

Sample ID: 24D1470-09

Autosampler Location: 83

Date Collected: 4/18/2024 8:15:19 PM

Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 110

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24D1470-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	147562.8	96.2	%	1.49	96.2	%	1.49	1.55%
Y axial	1923188.6	94.4	%	1.91	94.4	%	1.91	2.02%
Ag 328.068†	-11.2	-0.0002	mg/L	0.00018	-0.0002	mg/L	0.00018	80.54%
Al 396.153†	38.6	0.0075	mg/L	0.01150	0.0075	mg/L	0.01150	153.40%
As 188.979†	5.4	0.0047	mg/L	0.00215	0.0047	mg/L	0.00215	45.83%
B 208.889†	630.2	0.0911	mg/L	0.00103	0.0911	mg/L	0.00103	1.13%
Ba 233.527†	235.8	0.0684	mg/L	0.00042	0.0684	mg/L	0.00042	0.61%
Be 313.107†	48.9	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	45.29%
Ca 317.933†	94478.0	16.43	mg/L	0.019	16.43	mg/L	0.019	0.11%
Cd 228.802†	14.0	0.0004	mg/L	0.00018	0.0004	mg/L	0.00018	42.36%
Co 228.616†	25.0	0.0009	mg/L	0.00041	0.0009	mg/L	0.00041	44.08%
Cr 267.716†	181.0	0.0038	mg/L	0.00026	0.0038	mg/L	0.00026	6.85%
Cu 327.393†	381.8	0.0038	mg/L	0.00054	0.0038	mg/L	0.00054	14.36%
Fe 238.204†	20.7	0.0061	mg/L	0.00111	0.0061	mg/L	0.00111	18.11%
K 766.490†	44242.7	22.15	mg/L	0.046	22.15	mg/L	0.046	0.21%
Mg 285.213†	91656.1	8.691	mg/L	0.0124	8.691	mg/L	0.0124	0.14%
Mn 257.610†	15.5	0.0007	mg/L	0.00058	0.0007	mg/L	0.00058	86.03%
Mo 202.031†	24.5	0.0013	mg/L	0.00074	0.0013	mg/L	0.00074	58.45%
Na 589.592†	234070.6	25.01	mg/L	0.026	25.01	mg/L	0.026	0.10%
Ni 231.604†	62.4	0.0026	mg/L	0.00023	0.0026	mg/L	0.00023	8.72%
Pb 220.353†	-5.9	-0.0014	mg/L	0.00215	-0.0014	mg/L	0.00215	152.05%
Sb 206.836†	0.6	-0.0004	mg/L	0.00245	-0.0004	mg/L	0.00245	617.94%
Se 196.026†	7.7	0.0042	mg/L	0.00373	0.0042	mg/L	0.00373	89.16%
Sn 189.927†	-263.2	-0.0434	mg/L	0.00092	-0.0434	mg/L	0.00092	2.13%
Ti 337.279†	-10.8	-0.0006	mg/L	0.00071	-0.0006	mg/L	0.00071	121.10%
Tl 351.924†	-20.7	-0.0064	mg/L	0.00902	-0.0064	mg/L	0.00902	140.55%
V 290.880†	75.7	0.0008	mg/L	0.00067	0.0008	mg/L	0.00067	81.31%
Zn 206.200†	53.4	0.0007	mg/L	0.00055	0.0007	mg/L	0.00055	80.10%
Zr 343.823†	6.9	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	274.16%

Batch ID: OPTIMA 3

Sequence No.: 67

Sample ID: 24D1470-10

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 84

Date Collected: 4/18/2024 8:21:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	151233.7	98.6	%	2.67	98.6	%	2.67	2.71%
Y axial	1915370.9	94.0	%	1.69	94.0	%	1.69	1.80%
Ag 328.068†	-75.2	-0.0015	mg/L	0.00098	-0.0015	mg/L	0.00098	65.18%
Al 396.153†	71.1	0.0158	mg/L	0.01493	0.0158	mg/L	0.01493	94.29%
As 188.979†	5.6	0.0048	mg/L	0.00185	0.0048	mg/L	0.00185	38.50%
B 208.889†	637.0	0.0921	mg/L	0.00194	0.0921	mg/L	0.00194	2.10%
Ba 233.527†	463.6	0.1345	mg/L	0.00336	0.1345	mg/L	0.00336	2.50%
Be 313.107†	42.2	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	57.90%
Ca 317.933†	107339.8	18.66	mg/L	0.033	18.66	mg/L	0.033	0.18%
Cd 228.802†	18.7	0.0006	mg/L	0.00013	0.0006	mg/L	0.00013	21.69%
Co 228.616†	21.2	0.0008	mg/L	0.00005	0.0008	mg/L	0.00005	6.52%
Cr 267.716†	74.9	0.0016	mg/L	0.00014	0.0016	mg/L	0.00014	8.70%
Cu 327.393†	305.6	0.0030	mg/L	0.00091	0.0030	mg/L	0.00091	30.30%
Fe 238.204†	68.6	0.0202	mg/L	0.00106	0.0202	mg/L	0.00106	5.22%
K 766.490†	30065.6	15.05	mg/L	0.074	15.05	mg/L	0.074	0.49%
Mg 285.213†	105453.0	9.999	mg/L	0.0405	9.999	mg/L	0.0405	0.41%
Mn 257.610†	36.9	0.0016	mg/L	0.00032	0.0016	mg/L	0.00032	19.85%
Mo 202.031†	36.9	0.0021	mg/L	0.00067	0.0021	mg/L	0.00067	32.11%

Na 589.592†	243234.9	25.99	mg/L	0.112	25.99	mg/L	0.112	0.43%
Ni 231.604†	65.5	0.0028	mg/L	0.00049	0.0028	mg/L	0.00049	17.86%
Pb 220.353†	-9.1	-0.0023	mg/L	0.00153	-0.0023	mg/L	0.00153	67.72%
Sb 206.836†	3.6	0.0011	mg/L	0.00333	0.0011	mg/L	0.00333	289.62%
Se 196.026†	4.9	0.0024	mg/L	0.00433	0.0024	mg/L	0.00433	182.11%
Sn 189.927†	-299.2	-0.0491	mg/L	0.00156	-0.0491	mg/L	0.00156	3.18%
Ti 337.279†	-9.6	-0.0005	mg/L	0.00085	-0.0005	mg/L	0.00085	161.84%
Tl 351.924†	-22.1	-0.0069	mg/L	0.01374	-0.0069	mg/L	0.01374	199.90%
V 290.880†	71.7	0.0007	mg/L	0.00034	0.0007	mg/L	0.00034	48.21%
Zn 206.200†	29.4	-0.0007	mg/L	0.00011	-0.0007	mg/L	0.00011	16.57%
Zr 343.823†	50.5	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	56.14%

Batch ID: OPTIMA 3

Sequence No.: 68

Sample ID: 24D1470-11

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 85

Date Collected: 4/18/2024 8:27:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 24D1470-11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	144828.2	94.4	%	2.32	94.4	%	2.32	2.45%
Y axial	1909062.1	93.7	%	2.34	93.7	%	2.34	2.49%
Ag 328.068†	-26.7	-0.0005	mg/L	0.00137	-0.0005	mg/L	0.00137	255.57%
Al 396.153†	41.9	0.0081	mg/L	0.01074	0.0081	mg/L	0.01074	132.99%
As 188.979†	10.2	0.0089	mg/L	0.00163	0.0089	mg/L	0.00163	18.37%
B 208.889†	598.5	0.0865	mg/L	0.00167	0.0865	mg/L	0.00167	1.93%
Ba 233.527†	238.7	0.0692	mg/L	0.00090	0.0692	mg/L	0.00090	1.30%
Be 313.107†	35.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	16.78%
Ca 317.933†	104886.0	18.24	mg/L	0.069	18.24	mg/L	0.069	0.38%
Cd 228.802†	15.7	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	46.63%
Co 228.616†	22.1	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	48.24%
Cr 267.716†	312.0	0.0066	mg/L	0.00013	0.0066	mg/L	0.00013	1.99%
Cu 327.393†	242.7	0.0024	mg/L	0.00013	0.0024	mg/L	0.00013	5.63%
Fe 238.204†	19.7	0.0058	mg/L	0.00044	0.0058	mg/L	0.00044	7.60%
K 766.490†	19180.2	9.602	mg/L	0.0784	9.602	mg/L	0.0784	0.82%
Mg 285.213†	101164.6	9.592	mg/L	0.0077	9.592	mg/L	0.0077	0.08%
Mn 257.610†	65.3	0.0029	mg/L	0.00048	0.0029	mg/L	0.00048	16.70%
Mo 202.031†	28.4	0.0015	mg/L	0.00060	0.0015	mg/L	0.00060	39.88%
Na 589.592†	275720.0	29.46	mg/L	0.032	29.46	mg/L	0.032	0.11%
Ni 231.604†	63.3	0.0027	mg/L	0.00043	0.0027	mg/L	0.00043	16.32%
Pb 220.353†	-4.0	-0.0009	mg/L	0.00105	-0.0009	mg/L	0.00105	119.83%
Sb 206.836†	4.6	0.0017	mg/L	0.00353	0.0017	mg/L	0.00353	213.45%
Se 196.026†	-3.6	-0.0029	mg/L	0.00375	-0.0029	mg/L	0.00375	128.42%
Sn 189.927†	-293.7	-0.0486	mg/L	0.00177	-0.0486	mg/L	0.00177	3.64%
Ti 337.279†	-17.6	-0.0010	mg/L	0.00094	-0.0010	mg/L	0.00094	98.32%
Tl 351.924†	-15.5	-0.0049	mg/L	0.00738	-0.0049	mg/L	0.00738	149.32%
V 290.880†	228.6	0.0032	mg/L	0.00006	0.0032	mg/L	0.00006	1.88%
Zn 206.200†	40.6	-0.0004	mg/L	0.00033	-0.0004	mg/L	0.00033	93.86%
Zr 343.823†	-12.8	-0.0001	mg/L	0.00037	-0.0001	mg/L	0.00037	499.00%

Batch ID: OPTIMA 3

Sequence No.: 69

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 7

Date Collected: 4/18/2024 8:33:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	147605.2	96.2	%	1.85	96.2	%	1.85	1.93%
Y axial	1949451.0	95.7	%	0.73	95.7	%	0.73	0.76%

Ag 328.068†	-22.7	-0.0005 mg/L	0.00040	-0.0005 mg/L	0.00040	88.35%
Al 396.153†	-25.7	-0.0070 mg/L	0.00782	-0.0070 mg/L	0.00782	112.33%
As 188.979†	0.2	0.0001 mg/L	0.00274	0.0001 mg/L	0.00274	>999.9%
B 208.889†	3.8	0.0005 mg/L	0.00068	0.0005 mg/L	0.00068	139.87%
Ba 233.527†	5.2	0.0015 mg/L	0.00097	0.0015 mg/L	0.00097	64.43%
Be 313.107†	28.6	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	7.13%
Ca 317.933†	-9.4	-0.0016 mg/L	0.00345	-0.0016 mg/L	0.00345	211.10%
Cd 228.802†	18.2	0.0006 mg/L	0.00023	0.0006 mg/L	0.00023	36.05%
Co 228.616†	22.0	0.0008 mg/L	0.00024	0.0008 mg/L	0.00024	29.80%
Cr 267.716†	-17.5	-0.0004 mg/L	0.00010	-0.0004 mg/L	0.00010	28.07%
Cu 327.393†	-113.6	-0.0011 mg/L	0.00025	-0.0011 mg/L	0.00025	22.23%
Fe 238.204†	6.1	0.0018 mg/L	0.00088	0.0018 mg/L	0.00088	48.56%
K 766.490†	134.4	0.0673 mg/L	0.06156	0.0673 mg/L	0.06156	91.51%
Mg 285.213†	18.1	0.0017 mg/L	0.00061	0.0017 mg/L	0.00061	35.31%
Mn 257.610†	-9.0	-0.0004 mg/L	0.00042	-0.0004 mg/L	0.00042	105.49%
Mo 202.031†	19.8	0.0014 mg/L	0.00068	0.0014 mg/L	0.00068	49.44%
Na 589.592†	83.1	0.0089 mg/L	0.00581	0.0089 mg/L	0.00581	65.38%
Ni 231.604†	37.8	0.0016 mg/L	0.00002	0.0016 mg/L	0.00002	1.47%
Pb 220.353†	-10.3	-0.0029 mg/L	0.00131	-0.0029 mg/L	0.00131	45.96%
Sb 206.836†	3.1	0.0016 mg/L	0.00028	0.0016 mg/L	0.00028	17.73%
Se 196.026†	10.7	0.0067 mg/L	0.00221	0.0067 mg/L	0.00221	33.00%
Sn 189.927†	-7.7	-0.0018 mg/L	0.00044	-0.0018 mg/L	0.00044	25.06%
Ti 337.279†	-8.2	-0.0004 mg/L	0.00110	-0.0004 mg/L	0.00110	247.85%
Tl 351.924†	-10.4	-0.0030 mg/L	0.01012	-0.0030 mg/L	0.01012	332.99%
V 290.880†	-25.7	-0.0004 mg/L	0.00023	-0.0004 mg/L	0.00023	60.05%
Zn 206.200†	-7.6	-0.0004 mg/L	0.00029	-0.0004 mg/L	0.00029	72.47%
Zr 343.823†	13.6	0.0001 mg/L	0.00024	0.0001 mg/L	0.00024	304.26%

Batch ID: OPTIMA 3

Sequence No.: 70

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 11

Date Collected: 4/18/2024 8:39:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139048.4	90.6 %	2.21	90.6 %	2.21	2.44%
Y axial	1746769.9	85.7 %	1.29	85.7 %	1.29	1.51%
Ag 328.068†	-253.7	-0.0021 mg/L	0.00047	-0.0021 mg/L	0.00047	22.97%
QC value within limits for Ag 328.068			Recovery = Not calculated			
Al 396.153†	977206.0	262.8 mg/L	5.74	262.8 mg/L	5.74	2.18%
QC value within limits for Al 396.153			Recovery = 105.11%			
As 188.979†	-17.6	0.0026 mg/L	0.00291	0.0026 mg/L	0.00291	113.07%
QC value within limits for As 188.979			Recovery = Not calculated			
B 208.889†	-18.9	-0.0018 mg/L	0.00073	-0.0018 mg/L	0.00073	40.95%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	24.5	0.0026 mg/L	0.00168	0.0026 mg/L	0.00168	64.15%
QC value within limits for Ba 233.527			Recovery = Not calculated			
Be 313.107†	96.2	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	18.56%
QC value within limits for Be 313.107			Recovery = Not calculated			
Ca 317.933†	1399545.0	243.3 mg/L	5.86	243.3 mg/L	5.86	2.41%
QC value within limits for Ca 317.933			Recovery = 97.32%			
Cd 228.802†	32.1	0.0013 mg/L	0.00017	0.0013 mg/L	0.00017	13.19%
QC value within limits for Cd 228.802			Recovery = Not calculated			
Co 228.616†	46.2	0.0016 mg/L	0.00086	0.0016 mg/L	0.00086	53.55%
QC value within limits for Co 228.616			Recovery = Not calculated			
Cr 267.716†	-236.3	-0.0011 mg/L	0.00014	-0.0011 mg/L	0.00014	13.21%
QC value within limits for Cr 267.716			Recovery = Not calculated			
Cu 327.393†	-693.9	-0.0037 mg/L	0.00018	-0.0037 mg/L	0.00018	4.80%
QC value within limits for Cu 327.393			Recovery = Not calculated			
Fe 238.204†	343683.7	101.3 mg/L	2.18	101.3 mg/L	2.18	2.15%
QC value within limits for Fe 238.204			Recovery = 101.33%			
K 766.490†	286.1	0.1254 mg/L	0.04606	0.1254 mg/L	0.04606	36.73%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	2662586.8	252.6 mg/L	5.38	252.6 mg/L	5.38	2.13%

QC value within limits for Mg 285.213	Recovery = 101.04%		
Mn 257.610† 102.8 0.0063 mg/L	0.00107 0.0063 mg/L	0.00107	16.90%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031† -279.4 -0.0171 mg/L	0.00088 -0.0171 mg/L	0.00088	5.17%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 542.9 0.0580 mg/L	0.00362 0.0580 mg/L	0.00362	6.24%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 78.9 0.0033 mg/L	0.00028 0.0033 mg/L	0.00028	8.38%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353† -95.1 -0.0089 mg/L	0.00320 -0.0089 mg/L	0.00320	36.06%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836† 4.2 -0.0048 mg/L	0.00293 -0.0048 mg/L	0.00293	61.24%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026† -301.6 -0.0565 mg/L	0.01314 -0.0565 mg/L	0.01314	23.26%
QC value less than the lower limit for Se 196.026	Recovery = Not calculated		
Sn 189.927† -2116.6 -0.0015 mg/L	0.01178 -0.0015 mg/L	0.01178	806.98%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -41.1 -0.0022 mg/L	0.00007 -0.0022 mg/L	0.00007	3.07%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† -49.0 -0.0026 mg/L	0.00680 -0.0026 mg/L	0.00680	263.13%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880† 1043.2 -0.0036 mg/L	0.00303 -0.0036 mg/L	0.00303	83.54%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200† -60.4 0.0006 mg/L	0.00027 0.0006 mg/L	0.00027	41.59%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823† 621.6 0.0036 mg/L	0.00008 0.0036 mg/L	0.00008	2.31%
QC Failed. Continue with analysis.			

Batch ID: OPTIMA 3

Sequence No.: 71

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/18/2024 8:45:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141472.8	92.2 %	0.35	92.2 %	0.35	0.38%
Y axial	1759684.2	86.4 %	0.86	86.4 %	0.86	1.00%
Ag 328.068†	22850.1	0.4605 mg/L	0.01277	0.4605 mg/L	0.01277	2.77%
QC value within limits for Ag 328.068			Recovery = 115.11%			
Al 396.153†	967081.3	260.0 mg/L	0.42	260.0 mg/L	0.42	0.16%
QC value within limits for Al 396.153			Recovery = 104.02%			
As 188.979†	200.8	0.1984 mg/L	0.00775	0.1984 mg/L	0.00775	3.90%
QC value within limits for As 188.979			Recovery = 99.21%			
B 208.889†	-29.8	-0.0033 mg/L	0.00182	-0.0033 mg/L	0.00182	54.51%
QC value within limits for B 208.889			Recovery = Not calculated			
Ba 233.527†	3560.0	1.028 mg/L	0.0106	1.028 mg/L	0.0106	1.03%
QC value within limits for Ba 233.527			Recovery = 102.78%			
Be 313.107†	276251.7	1.011 mg/L	0.0031	1.011 mg/L	0.0031	0.30%
QC value within limits for Be 313.107			Recovery = 101.07%			
Ca 317.933†	1391353.4	241.9 mg/L	0.39	241.9 mg/L	0.39	0.16%
QC value within limits for Ca 317.933			Recovery = 96.75%			
Cd 228.802†	58676.2	2.052 mg/L	0.0133	2.052 mg/L	0.0133	0.65%
QC value within limits for Cd 228.802			Recovery = 102.61%			
Co 228.616†	26137.6	0.9345 mg/L	0.00407	0.9345 mg/L	0.00407	0.44%
QC value within limits for Co 228.616			Recovery = 93.45%			
Cr 267.716†	46566.3	0.9923 mg/L	0.00723	0.9923 mg/L	0.00723	0.73%
QC value within limits for Cr 267.716			Recovery = 99.23%			
Cu 327.393†	101266.0	1.001 mg/L	0.0053	1.001 mg/L	0.0053	0.53%
QC value within limits for Cu 327.393			Recovery = 100.07%			
Fe 238.204†	341924.6	100.8 mg/L	0.11	100.8 mg/L	0.11	0.11%
QC value within limits for Fe 238.204			Recovery = 100.82%			
K 766.490†	162.0	0.0634 mg/L	0.07283	0.0634 mg/L	0.07283	114.94%
QC value within limits for K 766.490			Recovery = Not calculated			
Mg 285.213†	2642950.4	250.8 mg/L	0.56	250.8 mg/L	0.56	0.22%

QC value within limits for Mg 285.213	Recovery = 100.30%		
Mn 257.610† 22124.7 0.9720 mg/L	0.00386 0.9720 mg/L	0.00386	0.40%
QC value within limits for Mn 257.610	Recovery = 97.20%		
Mo 202.031† -290.2 -0.0178 mg/L	0.00046 -0.0178 mg/L	0.00046	2.59%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 524.2 0.0560 mg/L	0.00812 0.0560 mg/L	0.00812	14.50%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 41579.1 1.748 mg/L	0.0121 1.748 mg/L	0.0121	0.69%
QC value within limits for Ni 231.604	Recovery = 87.38%		
Pb 220.353† 240.7 0.0839 mg/L	0.00355 0.0839 mg/L	0.00355	4.23%
QC value within limits for Pb 220.353	Recovery = 83.86%		
Sb 206.836† 2169.1 1.105 mg/L	0.0125 1.105 mg/L	0.0125	1.13%
QC value within limits for Sb 206.836	Recovery = 92.05%		
Se 196.026† 519.3 0.4513 mg/L	0.00931 0.4513 mg/L	0.00931	2.06%
QC value within limits for Se 196.026	Recovery = 90.26%		
Sn 189.927† -2116.8 -0.0051 mg/L	0.01345 -0.0051 mg/L	0.01345	265.80%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -46.5 -0.0025 mg/L	0.00036 -0.0025 mg/L	0.00036	14.20%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† 717.3 0.2261 mg/L	0.00754 0.2261 mg/L	0.00754	3.33%
QC value within limits for Tl 351.924	Recovery = 113.03%		
V 290.880† 65524.9 1.031 mg/L	0.0076 1.031 mg/L	0.0076	0.73%
QC value within limits for V 290.880	Recovery = 103.11%		
Zn 206.200† 34146.5 1.818 mg/L	0.0176 1.818 mg/L	0.0176	0.97%
QC value within limits for Zn 206.200	Recovery = 90.90%		
Zr 343.823† 637.2 0.0037 mg/L	0.00006 0.0037 mg/L	0.00006	1.65%
All analyte(s) passed QC.			

Batch ID: OPTIMA 3

Sequence No.: 72

Sample ID: SEQ-CCV@ 23IJ0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 8:53:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140384.8	91.5 %	1.15	91.5 %	1.15	1.26%
Y axial	1877679.3	92.2 %	0.47	92.2 %	0.47	0.51%
Ag 328.068†	96835.0	1.939 mg/L	0.0186	1.939 mg/L	0.0186	0.96%
QC value less than the lower limit for Ag 328.068				Recovery = 77.55%		
Al 396.153†	38701.0	10.18 mg/L	0.023	10.18 mg/L	0.023	0.23%
QC value within limits for Al 396.153				Recovery = 101.80%		
As 188.979†	5560.1	4.847 mg/L	0.0195	4.847 mg/L	0.0195	0.40%
QC value within limits for As 188.979				Recovery = 96.93%		
B 208.889†	32913.5	4.527 mg/L	0.0260	4.527 mg/L	0.0260	0.57%
QC value within limits for B 208.889				Recovery = 90.54%		
Ba 233.527†	16828.7	4.879 mg/L	0.1003	4.879 mg/L	0.1003	2.06%
QC value within limits for Ba 233.527				Recovery = 97.59%		
Be 313.107†	1397809.6	5.113 mg/L	0.1290	5.113 mg/L	0.1290	2.52%
QC value within limits for Be 313.107				Recovery = 102.26%		
Ca 317.933†	55830.5	9.705 mg/L	0.0234	9.705 mg/L	0.0234	0.24%
QC value within limits for Ca 317.933				Recovery = 97.05%		
Cd 228.802†	146180.4	5.069 mg/L	0.0064	5.069 mg/L	0.0064	0.13%
QC value within limits for Cd 228.802				Recovery = 101.37%		
Co 228.616†	141757.5	5.073 mg/L	0.0012	5.073 mg/L	0.0012	0.02%
QC value within limits for Co 228.616				Recovery = 101.46%		
Cr 267.716†	240400.0	5.103 mg/L	0.0008	5.103 mg/L	0.0008	0.02%
QC value within limits for Cr 267.716				Recovery = 102.05%		
Cu 327.393†	500370.1	4.937 mg/L	0.0056	4.937 mg/L	0.0056	0.11%
QC value within limits for Cu 327.393				Recovery = 98.75%		
Fe 238.204†	17040.8	5.070 mg/L	0.0047	5.070 mg/L	0.0047	0.09%
QC value within limits for Fe 238.204				Recovery = 101.39%		
K 766.490†	20609.6	10.32 mg/L	0.041	10.32 mg/L	0.041	0.40%
QC value within limits for K 766.490				Recovery = 103.17%		
Mg 285.213†	110040.8	10.44 mg/L	0.026	10.44 mg/L	0.026	0.25%

QC value within limits for Mg 285.213	Recovery = 104.45%			
Mn 257.610† 113752.4	4.988 mg/L	0.0103	0.21%	
QC value within limits for Mn 257.610	Recovery = 99.77%			
Mo 202.031† 70141.2	4.888 mg/L	0.0071	0.14%	
QC value within limits for Mo 202.031	Recovery = 97.76%			
Na 589.592† 95478.8	10.20 mg/L	0.013	0.13%	
QC value within limits for Na 589.592	Recovery = 102.03%			
Ni 231.604† 114072.7	4.792 mg/L	0.0032	0.07%	
QC value within limits for Ni 231.604	Recovery = 95.84%			
Pb 220.353† 17232.7	4.782 mg/L	0.0270	0.56%	
QC value within limits for Pb 220.353	Recovery = 95.63%			
Sb 206.836† 9446.0	4.931 mg/L	0.0256	0.52%	
QC value within limits for Sb 206.836	Recovery = 98.62%			
Se 196.026† 7849.7	4.877 mg/L	0.0222	0.46%	
QC value within limits for Se 196.026	Recovery = 97.54%			
Sn 189.927† 21593.5	4.974 mg/L	0.0225	0.45%	
QC value within limits for Sn 189.927	Recovery = 99.47%			
Ti 337.279† 92234.3	5.004 mg/L	0.0103	0.21%	
QC value within limits for Ti 337.279	Recovery = 100.07%			
Tl 351.924† 8515.5	2.536 mg/L	0.0120	0.47%	
QC value within limits for Tl 351.924	Recovery = 101.43%			
V 290.880† 313894.0	5.150 mg/L	0.0019	0.04%	
QC value within limits for V 290.880	Recovery = 103.00%			
Zn 206.200† 91458.8	4.883 mg/L	0.0036	0.07%	
QC value within limits for Zn 206.200	Recovery = 97.66%			
Zr 343.823† 834432.1	4.839 mg/L	0.0020	0.04%	
QC Failed. Retry.				

Batch ID: OPTIMA 3

Sequence No.: 73

Sample ID: SEQ-CCV@ 23IJ0975

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/18/2024 8:56:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140148.0	91.4 %	1.71	91.4 %	1.71	1.87%
Y axial	1836769.4	90.2 %	0.71	90.2 %	0.71	0.79%
Ag 328.068†	100640.3	2.015 mg/L	0.0951	2.015 mg/L	0.0951	4.72%
QC value less than the lower limit for Ag 328.068				Recovery = 80.59%		
Al 396.153†	39132.7	10.29 mg/L	0.044	10.29 mg/L	0.044	0.43%
QC value within limits for Al 396.153				Recovery = 102.92%		
As 188.979†	5648.1	4.923 mg/L	0.1419	4.923 mg/L	0.1419	2.88%
QC value within limits for As 188.979				Recovery = 98.46%		
B 208.889†	34053.1	4.688 mg/L	0.1285	4.688 mg/L	0.1285	2.74%
QC value within limits for B 208.889				Recovery = 93.76%		
Ba 233.527†	17333.1	5.026 mg/L	0.0925	5.026 mg/L	0.0925	1.84%
QC value within limits for Ba 233.527				Recovery = 100.51%		
Be 313.107†	1373604.8	5.024 mg/L	0.0734	5.024 mg/L	0.0734	1.46%
QC value within limits for Be 313.107				Recovery = 100.48%		
Ca 317.933†	56332.5	9.792 mg/L	0.0063	9.792 mg/L	0.0063	0.06%
QC value within limits for Ca 317.933				Recovery = 97.92%		
Cd 228.802†	146670.7	5.085 mg/L	0.0067	5.085 mg/L	0.0067	0.13%
QC value within limits for Cd 228.802				Recovery = 101.70%		
Co 228.616†	141732.7	5.072 mg/L	0.0083	5.072 mg/L	0.0083	0.16%
QC value within limits for Co 228.616				Recovery = 101.44%		
Cr 267.716†	240945.7	5.114 mg/L	0.0021	5.114 mg/L	0.0021	0.04%
QC value within limits for Cr 267.716				Recovery = 102.28%		
Cu 327.393†	502443.6	4.958 mg/L	0.0085	4.958 mg/L	0.0085	0.17%
QC value within limits for Cu 327.393				Recovery = 99.16%		
Fe 238.204†	17180.7	5.111 mg/L	0.0121	5.111 mg/L	0.0121	0.24%
QC value within limits for Fe 238.204				Recovery = 102.22%		
K 766.490†	20810.0	10.42 mg/L	0.107	10.42 mg/L	0.107	1.03%
QC value within limits for K 766.490				Recovery = 104.17%		
Mg 285.213†	110843.4	10.52 mg/L	0.034	10.52 mg/L	0.034	0.33%

QC value within limits for Mg 285.213	Recovery = 105.21%		
Mn 257.610† 115187.7	5.051 mg/L	0.0069	0.14%
QC value within limits for Mn 257.610	Recovery = 101.03%		
Mo 202.031† 71363.1	4.973 mg/L	0.1160	2.33%
QC value within limits for Mo 202.031	Recovery = 99.46%		
Na 589.592† 95462.4	10.20 mg/L	0.163	1.60%
QC value within limits for Na 589.592	Recovery = 102.01%		
Ni 231.604† 113864.1	4.783 mg/L	0.0050	0.10%
QC value within limits for Ni 231.604	Recovery = 95.66%		
Pb 220.353† 17633.4	4.893 mg/L	0.1027	2.10%
QC value within limits for Pb 220.353	Recovery = 97.86%		
Sb 206.836† 9623.7	5.025 mg/L	0.1245	2.48%
QC value within limits for Sb 206.836	Recovery = 100.50%		
Se 196.026† 8028.8	4.988 mg/L	0.1644	3.29%
QC value within limits for Se 196.026	Recovery = 99.77%		
Sn 189.927† 22063.9	5.082 mg/L	0.1228	2.42%
QC value within limits for Sn 189.927	Recovery = 101.64%		
Ti 337.279† 93049.7	5.048 mg/L	0.0062	0.12%
QC value within limits for Ti 337.279	Recovery = 100.96%		
Tl 351.924† 8622.8	2.568 mg/L	0.0666	2.59%
QC value within limits for Tl 351.924	Recovery = 102.72%		
V 290.880† 314689.1	5.165 mg/L	0.0069	0.13%
QC value within limits for V 290.880	Recovery = 103.30%		
Zn 206.200† 91398.3	4.880 mg/L	0.0128	0.26%
QC value within limits for Zn 206.200	Recovery = 97.60%		
Zr 343.823† 835478.4	4.845 mg/L	0.0022	0.05%
QC Failed. Continue with analysis.			

Batch ID: OPTIMA 3

Sequence No.: 74

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 9:01:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	136336.2	88.9 %	1.50	88.9 %	1.50	1.69%
Y axial	1866021.9	91.6 %	2.35	91.6 %	2.35	2.57%
Ag 328.068†	1892.4	0.0379 mg/L	0.00133	0.0379 mg/L	0.00133	3.52%
QC value greater than the upper limit for Ag 328.068				Recovery = Not calculated		
Al 396.153†	3.8	0.0009 mg/L	0.01556	0.0009 mg/L	0.01556	>999.9%
QC value within limits for Al 396.153				Recovery = Not calculated		
As 188.979†	3.8	0.0033 mg/L	0.00259	0.0033 mg/L	0.00259	78.80%
QC value within limits for As 188.979				Recovery = Not calculated		
B 208.889†	196.1	0.0283 mg/L	0.00296	0.0283 mg/L	0.00296	10.46%
QC value within limits for B 208.889				Recovery = Not calculated		
Ba 233.527†	5.4	0.0016 mg/L	0.00051	0.0016 mg/L	0.00051	32.70%
QC value within limits for Ba 233.527				Recovery = Not calculated		
Be 313.107†	75.0	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	13.73%
QC value within limits for Be 313.107				Recovery = Not calculated		
Ca 317.933†	16.9	0.0029 mg/L	0.00219	0.0029 mg/L	0.00219	74.56%
QC value within limits for Ca 317.933				Recovery = Not calculated		
Cd 228.802†	25.8	0.0009 mg/L	0.00029	0.0009 mg/L	0.00029	33.67%
QC value within limits for Cd 228.802				Recovery = Not calculated		
Co 228.616†	25.7	0.0009 mg/L	0.00017	0.0009 mg/L	0.00017	18.26%
QC value within limits for Co 228.616				Recovery = Not calculated		
Cr 267.716†	-12.6	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	11.11%
QC value within limits for Cr 267.716				Recovery = Not calculated		
Cu 327.393†	243.1	0.0024 mg/L	0.00043	0.0024 mg/L	0.00043	17.94%
QC value within limits for Cu 327.393				Recovery = Not calculated		
Fe 238.204†	-3.0	-0.0009 mg/L	0.00037	-0.0009 mg/L	0.00037	42.36%
QC value within limits for Fe 238.204				Recovery = Not calculated		
K 766.490†	227.9	0.1141 mg/L	0.05721	0.1141 mg/L	0.05721	50.13%
QC value within limits for K 766.490				Recovery = Not calculated		
Mg 285.213†	30.2	0.0029 mg/L	0.00018	0.0029 mg/L	0.00018	6.45%

QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610† -38.6 -0.0017 mg/L	0.00053 -0.0017 mg/L	0.00053	31.41%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031† 34.3 0.0024 mg/L	0.00043 0.0024 mg/L	0.00043	18.04%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 92.8 0.0099 mg/L	0.01597 0.0099 mg/L	0.01597	161.08%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 61.6 0.0026 mg/L	0.00063 0.0026 mg/L	0.00063	24.32%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353† -7.3 -0.0020 mg/L	0.00213 -0.0020 mg/L	0.00213	105.10%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836† 5.4 0.0028 mg/L	0.00114 0.0028 mg/L	0.00114	40.27%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026† 12.8 0.0079 mg/L	0.00234 0.0079 mg/L	0.00234	29.42%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927† -3.8 -0.0009 mg/L	0.00068 -0.0009 mg/L	0.00068	78.56%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -44.8 -0.0024 mg/L	0.00129 -0.0024 mg/L	0.00129	53.08%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† -35.8 -0.0105 mg/L	0.01757 -0.0105 mg/L	0.01757	166.99%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880† -26.8 -0.0004 mg/L	0.00019 -0.0004 mg/L	0.00019	50.30%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200† 35.7 0.0019 mg/L	0.00042 0.0019 mg/L	0.00042	22.36%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823† 25.4 0.0001 mg/L	0.00015 0.0001 mg/L	0.00015	101.11%
QC Failed. Retry.			

Batch ID: OPTIMA 3

Sequence No.: 75

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Rinse Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/18/2024 9:05:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	137932.2	89.9 %	1.01	89.9 %	1.01	1.13%
Y axial	1880907.5	92.3 %	1.38	92.3 %	1.38	1.49%
Ag 328.068†	1103.0	0.0221 mg/L	0.00150	0.0221 mg/L	0.00150	6.81%
QC value greater than the upper limit for Ag 328.068				Recovery = Not calculated		
Al 396.153†	-47.2	-0.0128 mg/L	0.01007	-0.0128 mg/L	0.01007	78.91%
QC value within limits for Al 396.153				Recovery = Not calculated		
As 188.979†	4.8	0.0042 mg/L	0.00296	0.0042 mg/L	0.00296	71.00%
QC value within limits for As 188.979				Recovery = Not calculated		
B 208.889†	134.4	0.0194 mg/L	0.00181	0.0194 mg/L	0.00181	9.35%
QC value within limits for B 208.889				Recovery = Not calculated		
Ba 233.527†	2.3	0.0007 mg/L	0.00033	0.0007 mg/L	0.00033	50.83%
QC value within limits for Ba 233.527				Recovery = Not calculated		
Be 313.107†	44.8	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.14%
QC value within limits for Be 313.107				Recovery = Not calculated		
Ca 317.933†	16.4	0.0029 mg/L	0.00353	0.0029 mg/L	0.00353	123.92%
QC value within limits for Ca 317.933				Recovery = Not calculated		
Cd 228.802†	18.0	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	8.52%
QC value within limits for Cd 228.802				Recovery = Not calculated		
Co 228.616†	19.8	0.0007 mg/L	0.00064	0.0007 mg/L	0.00064	89.12%
QC value within limits for Co 228.616				Recovery = Not calculated		
Cr 267.716†	-20.4	-0.0004 mg/L	0.00020	-0.0004 mg/L	0.00020	45.28%
QC value within limits for Cr 267.716				Recovery = Not calculated		
Cu 327.393†	199.0	0.0020 mg/L	0.00019	0.0020 mg/L	0.00019	9.88%
QC value within limits for Cu 327.393				Recovery = Not calculated		
Fe 238.204†	-1.7	-0.0005 mg/L	0.00206	-0.0005 mg/L	0.00206	412.81%
QC value within limits for Fe 238.204				Recovery = Not calculated		
K 766.490†	258.0	0.1292 mg/L	0.06067	0.1292 mg/L	0.06067	46.97%
QC value within limits for K 766.490				Recovery = Not calculated		
Mg 285.213†	25.9	0.0025 mg/L	0.00063	0.0025 mg/L	0.00063	25.73%

QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610† -34.7 -0.0015 mg/L	0.00034 -0.0015 mg/L	0.00034	22.58%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031† 23.4 0.0016 mg/L	0.00052 0.0016 mg/L	0.00052	32.01%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592† 85.9 0.0092 mg/L	0.00981 0.0092 mg/L	0.00981	106.79%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604† 51.7 0.0022 mg/L	0.00031 0.0022 mg/L	0.00031	14.01%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353† -9.5 -0.0026 mg/L	0.00226 -0.0026 mg/L	0.00226	85.62%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836† 11.2 0.0058 mg/L	0.00131 0.0058 mg/L	0.00131	22.60%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026† 6.3 0.0039 mg/L	0.00162 0.0039 mg/L	0.00162	41.64%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927† -3.9 -0.0009 mg/L	0.00170 -0.0009 mg/L	0.00170	191.44%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279† -33.2 -0.0018 mg/L	0.00129 -0.0018 mg/L	0.00129	71.62%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924† -26.8 -0.0079 mg/L	0.00549 -0.0079 mg/L	0.00549	69.85%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880† -47.3 -0.0007 mg/L	0.00025 -0.0007 mg/L	0.00025	34.25%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200† 30.0 0.0016 mg/L	0.00045 0.0016 mg/L	0.00045	28.64%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823† 47.0 0.0003 mg/L	0.00023 0.0003 mg/L	0.00023	85.84%
QC Failed. Continue with analysis.			

S103428

Instrument: ICP4

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103428-ICV1	QC		1		23K0257	24D0241	
S103428-ICB1	QC		2		23J0970	24D0241	
S103428-LCV1	QC		3		23J0971	24D0241	
S103428-CCV1	QC		4		24D0029	24D0241	
S103428-IFA1	QC		5		24C0959	24D0241	
S103428-IFB1	QC		6		24D0240	24D0241	
B371416-BLK3	QC		7			24D0241	Added 4/19/2024 by HNN
S103428-IFA2	QC		8		24C0959	24D0241	
S103428-IFB2	QC		9		24D0240	24D0241	
S103428-CCV2	QC		10		24D0029	24D0241	
S103428-CCB1	QC		11		23J0970	24D0241	

Samples Loaded By

Date

Data Processed By

Date

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-CAL1@BLANK 23IJ0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/19/2024 1:31:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Mean Corrected					Calib
Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y radial	222139.8	4307.86	1.94%	100	%
Y axial	933414.3	23133.76	2.48%	100	%
Ag 328.068†	-40.9	5.67	13.88%	[0.00]	mg/L
Al 396.153†	-33.4	37.78	113.00%	[0.00]	mg/L
As 188.979†	-5.7	3.23	57.05%	[0.00]	mg/L
B 208.889†	47.7	3.83	8.02%	[0.00]	mg/L
Ba 233.527†	3.9	4.31	110.81%	[0.00]	mg/L
Be 313.107†	2106.9	36.81	1.75%	[0.00]	mg/L
Ca 317.933†	1845.8	27.06	1.47%	[0.00]	mg/L
Cd 228.802†	53.0	4.56	8.59%	[0.00]	mg/L
Co 228.616†	-46.4	5.54	11.94%	[0.00]	mg/L
Cr 267.716†	34.2	4.07	11.90%	[0.00]	mg/L
Cu 327.393†	14.9	10.25	68.82%	[0.00]	mg/L
Fe 238.204†	59.1	5.94	10.06%	[0.00]	mg/L
K 766.490†	-794.6	52.07	6.55%	[0.00]	mg/L
Mg 285.213†	-25.7	6.82	26.49%	[0.00]	mg/L
Mn 257.610†	-59.6	4.07	6.83%	[0.00]	mg/L
Mo 202.031†	-2.8	4.95	179.10%	[0.00]	mg/L
Na 589.592†	724.1	38.08	5.26%	[0.00]	mg/L
Ni 231.604†	-200.0	5.37	2.69%	[0.00]	mg/L
Pb 220.353†	83.9	2.02	2.41%	[0.00]	mg/L
Sb 206.836†	38.3	5.17	13.50%	[0.00]	mg/L
Se 196.026†	13.3	2.74	20.60%	[0.00]	mg/L
Sn 189.927†	2.2	1.01	45.42%	[0.00]	mg/L
Ti 337.279†	-304.5	13.66	4.49%	[0.00]	mg/L
Tl 351.924†	-12.5	9.69	77.56%	[0.00]	mg/L
V 290.880†	880.3	13.18	1.50%	[0.00]	mg/L
Zn 206.200†	128.0	7.88	6.16%	[0.00]	mg/L
Zr 343.823†	4.7	22.03	470.35%	[0.00]	mg/L

User canceled analysis.

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-CAL1@BLANK 23IJ0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/19/2024 1:37:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Mean Corrected					Calib
Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y radial	186923.0	3421.54	1.83%	84.1	%
Y axial	879966.6	74756.68	8.50%	94.3	%
Ag 328.068†	-34.5	4.57	13.24%	[0.00]	mg/L
Al 396.153†	-55.5	47.67	85.85%	[0.00]	mg/L
As 188.979†	-6.4	3.00	46.51%	[0.00]	mg/L
B 208.889†	52.6	5.20	9.90%	[0.00]	mg/L
Ba 233.527†	-0.9	8.50	949.35%	[0.00]	mg/L
Be 313.107†	2579.7	132.13	5.12%	[0.00]	mg/L
Ca 317.933†	1832.1	39.63	2.16%	[0.00]	mg/L
Cd 228.802†	57.2	6.49	11.35%	[0.00]	mg/L
Co 228.616†	-54.4	11.03	20.26%	[0.00]	mg/L
Cr 267.716†	32.4	11.60	35.80%	[0.00]	mg/L

Cu 327.393†	-13.2	40.28	305.83%	[0.00]	mg/L
Fe 238.204†	64.8	4.36	6.73%	[0.00]	mg/L
K 766.490†	-928.0	70.52	7.60%	[0.00]	mg/L
Mg 285.213†	-36.4	10.14	27.87%	[0.00]	mg/L
Mn 257.610†	-75.5	4.58	6.07%	[0.00]	mg/L
Mo 202.031†	-4.3	2.70	62.46%	[0.00]	mg/L
Na 589.592†	514.6	85.13	16.54%	[0.00]	mg/L
Ni 231.604†	-215.9	22.14	10.26%	[0.00]	mg/L
Pb 220.353†	93.5	4.02	4.30%	[0.00]	mg/L
Sb 206.836†	43.6	5.65	12.98%	[0.00]	mg/L
Se 196.026†	17.9	2.90	16.23%	[0.00]	mg/L
Sn 189.927†	2.3	0.80	35.49%	[0.00]	mg/L
Ti 337.279†	-304.6	52.91	17.37%	[0.00]	mg/L
Tl 351.924†	-14.4	1.50	10.40%	[0.00]	mg/L
V 290.880†	943.6	95.15	10.08%	[0.00]	mg/L
Zn 206.200†	136.7	8.92	6.53%	[0.00]	mg/L
Zr 343.823†	17.0	16.23	95.18%	[0.00]	mg/L

Batch ID: AVIO 500

Sequence No.: 2

Sample ID: SEQ-CAL2@ 23J0971

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 2

Date Collected: 4/19/2024 1:44:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL2@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	195446.0	2884.19	1.48%	88.0	%
Y axial	825910.0	11705.53	1.42%	88.5	%
Ag 328.068†	132.7	4.55	3.43%	[0.01]	mg/L
Al 396.153†	225.0	72.03	32.01%	[0.05]	mg/L
As 188.979†	5.0	3.44	69.04%	[0.01]	mg/L
B 208.889†	242.1	7.77	3.21%	[0.1]	mg/L
Ba 233.527†	335.1	5.17	1.54%	[0.05]	mg/L
Be 313.107†	2512.1	55.26	2.20%	[0.004]	mg/L
Ca 317.933†	4060.8	57.51	1.42%	[0.5]	mg/L
Cd 228.802†	43.4	5.79	13.32%	[0.004]	mg/L
Co 228.616†	73.7	4.09	5.55%	[0.01]	mg/L
Cr 267.716†	173.6	10.98	6.33%	[0.01]	mg/L
Cu 327.393†	252.4	61.57	24.40%	[0.01]	mg/L
Fe 238.204†	269.1	7.07	2.63%	[0.05]	mg/L
Mg 285.213†	578.8	1.50	0.26%	[0.05]	mg/L
Mn 257.610†	296.5	3.60	1.21%	[0.01]	mg/L
Mo 202.031†	295.5	10.30	3.49%	[0.05]	mg/L
Ni 231.604†	109.6	6.03	5.50%	[0.01]	mg/L
Pb 220.353†	17.8	4.58	25.78%	[0.01]	mg/L
Sb 206.836†	34.7	8.68	25.01%	[0.05]	mg/L
Se 196.026†	24.2	2.69	11.11%	[0.05]	mg/L
Sn 189.927†	168.2	5.91	3.52%	[0.1]	mg/L
Ti 337.279†	596.3	7.05	1.18%	[0.02]	mg/L
Tl 351.924†	44.4	2.06	4.64%	[0.05]	mg/L
V 290.880†	289.6	17.14	5.92%	[0.01]	mg/L
Zn 206.200†	126.7	8.36	6.60%	[0.01]	mg/L

Batch ID: AVIO 500

Sequence No.: 3

Sample ID: SEQ-CAL3@ 23J0972

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 3

Date Collected: 4/19/2024 1:53:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL3@ 23J0972

Mean Corrected

Calib

Analyte	Intensity	Std.Dev.	RSD	Conc. Units
Y radial	185879.7	3937.77	2.12%	83.7 %
Y axial	801539.7	8862.51	1.11%	85.9 %
Ag 328.068†	1051.3	26.13	2.49%	[0.0625] mg/L
Al 396.153†	1053.2	72.04	6.84%	[0.25] mg/L
As 188.979†	56.1	4.23	7.54%	[0.125] mg/L
B 208.889†	324.5	1.34	0.41%	[0.125] mg/L
Ba 233.527†	840.0	21.26	2.53%	[0.125] mg/L
Be 313.107†	83398.6	339.22	0.41%	[0.125] mg/L
Cd 228.802†	1201.0	17.26	1.44%	[0.125] mg/L
Co 228.616†	929.9	10.08	1.08%	[0.125] mg/L
Cr 267.716†	2131.4	30.48	1.43%	[0.125] mg/L
Cu 327.393†	3277.4	49.59	1.51%	[0.125] mg/L
Fe 238.204†	652.1	9.79	1.50%	[0.125] mg/L
Mg 285.213†	3009.3	36.81	1.22%	[0.25] mg/L
Mn 257.610†	3751.0	39.40	1.05%	[0.125] mg/L
Mo 202.031†	758.6	13.65	1.80%	[0.125] mg/L
Ni 231.604†	1485.9	27.85	1.87%	[0.125] mg/L
Pb 220.353†	213.8	5.34	2.50%	[0.125] mg/L
Sb 206.836†	112.8	7.72	6.84%	[0.125] mg/L
Se 196.026†	57.2	4.98	8.69%	[0.125] mg/L
Sn 189.927†	224.4	4.90	2.18%	[0.125] mg/L
Ti 337.279†	3977.1	69.58	1.75%	[0.125] mg/L
Tl 351.924†	48.0	10.92	22.74%	[0.0625] mg/L
V 290.880†	3483.1	74.05	2.13%	[0.125] mg/L
Zn 206.200†	1514.4	39.23	2.59%	[0.125] mg/L
Zr 343.823†	8077.0	106.48	1.32%	[0.125] mg/L

Batch ID: AVIO 500

Sequence No.: 4

Sample ID: SEQ-CAL4@ 23J0973

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 4

Date Collected: 4/19/2024 2:01:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL4@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	195131.9	4276.50	2.19%	87.8 %
Y axial	814958.1	17507.70	2.15%	87.3 %
Ag 328.068†	3994.8	121.82	3.05%	[0.25] mg/L
Al 396.153†	3965.6	59.86	1.51%	[1] mg/L
As 188.979†	211.4	1.75	0.83%	[0.5] mg/L
B 208.889†	1269.7	31.09	2.45%	[0.5] mg/L
Ba 233.527†	3436.6	91.58	2.66%	[0.5] mg/L
Be 313.107†	331294.3	200.16	0.06%	[0.5] mg/L
Ca 317.933†	8480.0	152.07	1.79%	[1] mg/L
Cd 228.802†	4760.8	59.59	1.25%	[0.5] mg/L
Co 228.616†	3687.7	104.45	2.83%	[0.5] mg/L
Cr 267.716†	8350.0	106.65	1.28%	[0.5] mg/L
Cu 327.393†	13657.8	175.68	1.29%	[0.5] mg/L
Fe 238.204†	2580.9	45.15	1.75%	[0.5] mg/L
Mg 285.213†	11980.3	164.06	1.37%	[1] mg/L
Mn 257.610†	14987.1	225.74	1.51%	[0.5] mg/L
Mo 202.031†	2976.5	84.05	2.82%	[0.5] mg/L
Ni 231.604†	5965.8	75.82	1.27%	[0.5] mg/L
Pb 220.353†	822.5	28.78	3.50%	[0.5] mg/L
Sb 206.836†	437.2	20.77	4.75%	[0.5] mg/L
Se 196.026†	235.1	2.73	1.16%	[0.5] mg/L
Sn 189.927†	878.6	26.95	3.07%	[0.5] mg/L
Ti 337.279†	16033.0	237.50	1.48%	[0.5] mg/L
Tl 351.924†	197.3	9.06	4.59%	[0.25] mg/L
V 290.880†	13799.0	157.43	1.14%	[0.5] mg/L
Zn 206.200†	6148.5	120.80	1.96%	[0.5] mg/L
Zr 343.823†	32478.8	399.25	1.23%	[0.5] mg/L

Batch ID: AVIO 500
Sequence No.: 5
Sample ID: SEQ-CAL5@ 23J0974
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 5
Date Collected: 4/19/2024 2:09:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CAL5@ 23J0974

Mean Corrected				Calib
Analyte	Intensity	Std.Dev.	RSD	Conc. Units
Y radial	161162.6	1166.05	0.72%	72.6 %
Y axial	759783.1	21732.54	2.86%	81.4 %
Ag 328.068†	8487.9	325.04	3.83%	[0.5] mg/L
Al 396.153†	8238.4	35.22	0.43%	[2] mg/L
As 188.979†	430.6	4.50	1.05%	[1] mg/L
B 208.889†	2479.4	29.57	1.19%	[1] mg/L
Ba 233.527†	6215.9	147.60	2.37%	[1] mg/L
Be 313.107†	684807.8	4268.17	0.62%	[1] mg/L
Ca 317.933†	17186.5	136.84	0.80%	[2] mg/L
Cd 228.802†	9746.6	151.55	1.55%	[1] mg/L
Co 228.616†	7539.2	107.03	1.42%	[1] mg/L
Cr 267.716†	16792.3	170.50	1.02%	[1] mg/L
Cu 327.393†	27693.7	313.77	1.13%	[1] mg/L
Fe 238.204†	5287.0	37.63	0.71%	[1] mg/L
K 766.490†	3233.7	58.23	1.80%	[2] mg/L
Mg 285.213†	24894.3	65.22	0.26%	[2] mg/L
Mn 257.610†	30659.0	148.77	0.49%	[1] mg/L
Mo 202.031†	5747.5	79.36	1.38%	[1] mg/L
Na 589.592†	15158.7	13.42	0.09%	[2] mg/L
Ni 231.604†	12015.2	155.02	1.29%	[1] mg/L
Pb 220.353†	1678.0	22.40	1.34%	[1] mg/L
Sb 206.836†	846.9	23.80	2.81%	[1] mg/L
Se 196.026†	490.2	4.82	0.98%	[1] mg/L
Sn 189.927†	1688.1	25.42	1.51%	[1] mg/L
Ti 337.279†	31339.3	130.98	0.42%	[1] mg/L
Tl 351.924†	411.4	7.68	1.87%	[0.5] mg/L
V 290.880†	27942.9	331.60	1.19%	[1] mg/L
Zn 206.200†	12314.8	116.86	0.95%	[1] mg/L
Zr 343.823†	62113.5	746.72	1.20%	[1] mg/L

Batch ID: AVIO 500
Sequence No.: 6
Sample ID: SEQ-CAL6@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 6
Date Collected: 4/19/2024 2:16:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CAL6@ 23J0975

Mean Corrected				Calib
Analyte	Intensity	Std.Dev.	RSD	Conc. Units
Y radial	146445.1	2665.85	1.82%	65.9 %
Y axial	648693.0	14874.55	2.29%	69.5 %
Ag 328.068†	40006.6	1152.12	2.88%	[2.5] mg/L
Al 396.153†	39153.9	820.07	2.09%	[10] mg/L
As 188.979†	2080.2	31.68	1.52%	[5] mg/L
B 208.889†	12999.5	171.76	1.32%	[5] mg/L
Ba 233.527†	31568.5	368.57	1.17%	[5] mg/L
Be 313.107†	3236997.7	14585.92	0.45%	[5] mg/L
Ca 317.933†	79964.5	1674.85	2.09%	[10] mg/L
Cd 228.802†	47539.0	65.24	0.14%	[5] mg/L
Co 228.616†	35889.0	146.00	0.41%	[5] mg/L
Cr 267.716†	81707.9	237.78	0.29%	[5] mg/L
Cu 327.393†	139894.1	236.80	0.17%	[5] mg/L
Fe 238.204†	24277.2	527.14	2.17%	[5] mg/L
K 766.490†	16649.6	297.80	1.79%	[10] mg/L

Mg 285.213†	117542.8	2526.26	2.15%	[10]	mg/L
Mn 257.610†	145757.2	3009.68	2.06%	[5]	mg/L
Mo 202.031†	29271.0	137.26	0.47%	[5]	mg/L
Na 589.592†	71974.6	1314.31	1.83%	[10]	mg/L
Ni 231.604†	57762.4	176.44	0.31%	[5]	mg/L
Pb 220.353†	7906.4	104.54	1.32%	[5]	mg/L
Sb 206.836†	4287.6	73.85	1.72%	[5]	mg/L
Se 196.026†	2315.5	35.53	1.53%	[5]	mg/L
Sn 189.927†	8441.2	120.80	1.43%	[5]	mg/L
Ti 337.279†	158695.4	3034.10	1.91%	[5]	mg/L
Tl 351.924†	2059.5	22.60	1.10%	[2.5]	mg/L
V 290.880†	138650.1	146.32	0.11%	[5]	mg/L
Zn 206.200†	58268.2	306.56	0.53%	[5]	mg/L
Zr 343.823†	326649.3	490.25	0.15%	[5]	mg/L

Batch ID: AVIO 500

Sequence No.: 7

Sample ID: SEQ-CAL7@ 23J0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 7

Date Collected: 4/19/2024 2:22:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL7@ 23J0976

Analyte	Mean Corrected	Std.Dev.	RSD	Conc.	Calib
	Intensity			Units	
Y radial	145701.4	1768.21	1.21%	65.6	%
Y axial	630728.1	45047.91	7.14%	67.6	%
Ag 328.068†	81770.3	7355.28	9.00%	[5]	mg/L
Al 396.153†	79644.7	819.72	1.03%	[20]	mg/L
As 188.979†	4270.2	291.89	6.84%	[10]	mg/L
B 208.889†	26507.4	1717.45	6.48%	[10]	mg/L
Ba 233.527†	66492.2	5298.81	7.97%	[10]	mg/L
Be 313.107†	6736489.1	222115.95	3.30%	[10]	mg/L
Ca 317.933†	163602.7	1760.90	1.08%	[20]	mg/L
Cd 228.802†	94180.2	527.91	0.56%	[10]	mg/L
Co 228.616†	72737.2	4855.41	6.68%	[10]	mg/L
Cr 267.716†	161995.8	594.84	0.37%	[10]	mg/L
Cu 327.393†	280348.1	2048.37	0.73%	[10]	mg/L
Fe 238.204†	49378.0	571.96	1.16%	[10]	mg/L
K 766.490†	36006.9	334.81	0.93%	[20]	mg/L
Mg 285.213†	239187.6	2396.59	1.00%	[20]	mg/L
Mn 257.610†	297372.3	2903.92	0.98%	[10]	mg/L
Mo 202.031†	57958.3	247.90	0.43%	[10]	mg/L
Na 589.592†	144835.3	1342.18	0.93%	[20]	mg/L
Ni 231.604†	113668.3	667.22	0.59%	[10]	mg/L
Pb 220.353†	16039.7	1079.90	6.73%	[10]	mg/L
Sb 206.836†	8701.8	583.26	6.70%	[10]	mg/L
Se 196.026†	4699.3	310.23	6.60%	[10]	mg/L
Sn 189.927†	17012.8	1143.63	6.72%	[10]	mg/L
Ti 337.279†	323640.3	3101.75	0.96%	[10]	mg/L
Tl 351.924†	4066.6	250.24	6.15%	[5]	mg/L
V 290.880†	276697.0	1622.17	0.59%	[10]	mg/L
Zn 206.200†	114649.3	1356.95	1.18%	[10]	mg/L
Zr 343.823†	645983.9	4854.41	0.75%	[10]	mg/L

Batch ID: AVIO 500

Sequence No.: 8

Sample ID: SEQ-CAL8@ 23J0977

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 8

Date Collected: 4/19/2024 2:29:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL8@ 23J0977

Mean Corrected

Calib

[illegible]

Equation: Linear Through Zero

ID		Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK	23IJ0970	0.0	0	0.0000	3.00	46.51	N/A
SEQ-CAL2@	23J0971	5.0	0.01	0.0117	3.44	69.04	17.19%
SEQ-CAL3@	23J0972	56.1	0.125	0.1320	4.23	7.54	5.58%
SEQ-CAL4@	23J0973	211.4	0.5	0.4975	1.75	0.83	-0.51%
SEQ-CAL5@	23J0974	430.6	1.0	1.013	4.50	1.05	1.34%
SEQ-CAL6@	23J0975	2080.2	5.0	4.896	31.68	1.52	-2.08%
SEQ-CAL7@	23J0976	4270.2	10.0	10.05	291.89	6.84	0.51%
Correlation Coef.:		0.999946	Slope: 424.9		Intercept: 0.0		

Equation: Linear Through Zero

ID		Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK	23IJ0970	0.0	0	0.0000	5.20	9.90	N/A
SEQ-CAL2@	23J0971	242.1	0.1	0.0918	7.77	3.21	-8.25%
SEQ-CAL3@	23J0972	324.5	0.125	0.1230	1.34	0.41	-1.62%
SEQ-CAL4@	23J0973	1269.7	0.5	0.4811	31.09	2.45	-3.78%
SEQ-CAL5@	23J0974	2479.4	1.0	0.9395	29.57	1.19	-6.05%
SEQ-CAL6@	23J0975	12999.5	5.0	4.926	171.76	1.32	-1.48%
SEQ-CAL7@	23J0976	26507.4	10.0	10.04	1717.45	6.48	0.44%
Correlation Coef.:		0.999954	Slope: 2639	Intercept: 0.0			

Equation: Linear Through Zero

ID		Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK	23IJ0970	0.0	0	0.0000	8.50	949.35	N/A
SEQ-CAL2@	23J0971	335.1	0.05	0.0509	5.17	1.54	1.86%
SEQ-CAL3@	23J0972	840.0	0.125	0.1277	21.26	2.53	2.13%
SEQ-CAL4@	23J0973	3436.6	0.5	0.5223	91.58	2.66	4.46%
SEQ-CAL5@	23J0974	6215.9	1.0	0.9447	147.60	2.37	-5.53%
SEQ-CAL6@	23J0975	31568.5	5.0	4.798	368.57	1.17	-4.04%
SEQ-CAL7@	23J0976	66492.2	10.0	10.11	5298.81	7.97	1.05%
Correlation Coef.: 0.999780			Slope: 6580		Intercept: 0.0		

Equation: Linear Through Zero

ID		Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK	23IJ0970	0.0	0	0.0000	132.13	5.12	N/A
SEQ-CAL2@	23J0971	2512.1	0.004	0.0038	55.26	2.20	-6.06%
SEQ-CAL3@	23J0972	83398.6	0.125	0.1248	339.22	0.41	-0.20%
SEQ-CAL4@	23J0973	331294.3	0.5	0.4956	200.16	0.06	-0.89%
SEQ-CAL5@	23J0974	684807.8	1.0	1.024	4268.17	0.62	2.44%
SEQ-CAL6@	23J0975	3236997.7	5.0	4.842	14585.92	0.45	-3.16%
SEQ-CAL7@	23J0976	6736489.1	10.0	10.08	222115.95	3.30	0.77%
Correlation Coef.: 0.999875			Slope: 668500		Intercept: 0.0		

Equation: Linear Through Zero

ID		Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK	23IJ0970	0.0	0	0.0000	39.63	2.16	N/A
SEQ-CAL2@	23J0971	4060.8	0.5	0.5049	57.51	1.42	0.98%
SEQ-CAL4@	23J0973	8480.0	1.0	1.054	152.07	1.79	5.44%
SEQ-CAL5@	23J0974	17186.5	2.0	2.137	136.84	0.80	6.85%
SEQ-CAL6@	23J0975	79964.5	10.0	9.943	1674.85	2.09	-0.57%
SEQ-CAL7@	23J0976	163602.7	20.0	20.34	1760.90	1.08	1.71%
SEQ-CAL8@	23J0977	401074.4	50.0	49.87	1282.84	0.32	-0.26%
Correlation Coef.:		0.999974	Slope: 8043		Intercept: 0.0		

Calibration data for Cd 228.802

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	6.49	11.35	N/A
SEQ-CAL2@ 23J0971	43.4	0.004	0.0046	5.79	13.32	15.08%
SEQ-CAL3@ 23J0972	1201.0	0.125	0.1272	17.26	1.44	1.79%
SEQ-CAL4@ 23J0973	4760.8	0.5	0.5044	59.59	1.25	0.88%
SEQ-CAL5@ 23J0974	9746.6	1.0	1.033	151.55	1.55	3.26%
SEQ-CAL6@ 23J0975	47539.0	5.0	5.037	65.24	0.14	0.73%
SEQ-CAL7@ 23J0976	94180.2	10.0	9.978	527.91	0.56	-0.22%
Correlation Coef.: 0.999988 Slope: 9439 Intercept: 0.0						

Calibration data for Co 228.616

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	11.03	20.26	N/A
SEQ-CAL2@ 23J0971	73.7	0.01	0.0102	4.09	5.55	1.51%
SEQ-CAL3@ 23J0972	929.9	0.125	0.1281	10.08	1.08	2.51%
SEQ-CAL4@ 23J0973	3687.7	0.5	0.5082	104.45	2.83	1.63%
SEQ-CAL5@ 23J0974	7539.2	1.0	1.039	107.03	1.42	3.89%
SEQ-CAL6@ 23J0975	35889.0	5.0	4.945	146.00	0.41	-1.09%
SEQ-CAL7@ 23J0976	72737.2	10.0	10.02	4855.41	6.68	0.23%
Correlation Coef.: 0.999980 Slope: 7257 Intercept: 0.0						

Calibration data for Cr 267.716

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	11.60	35.80	N/A
SEQ-CAL2@ 23J0971	173.6	0.01	0.0107	10.98	6.33	6.92%
SEQ-CAL3@ 23J0972	2131.4	0.125	0.1313	30.48	1.43	5.04%
SEQ-CAL4@ 23J0973	8350.0	0.5	0.5144	106.65	1.28	2.87%
SEQ-CAL5@ 23J0974	16792.3	1.0	1.034	170.50	1.02	3.44%
SEQ-CAL6@ 23J0975	81707.9	5.0	5.033	237.78	0.29	0.67%
SEQ-CAL7@ 23J0976	161995.8	10.0	9.979	594.84	0.37	-0.21%
Correlation Coef.: 0.999988 Slope: 16230 Intercept: 0.0						

Calibration data for Cu 327.393

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	40.28	305.83	N/A
SEQ-CAL2@ 23J0971	252.4	0.01	0.0090	61.57	24.40	-9.93%
SEQ-CAL3@ 23J0972	3277.4	0.125	0.1170	49.59	1.51	-6.42%
SEQ-CAL4@ 23J0973	13657.8	0.5	0.4874	175.68	1.29	-2.51%
SEQ-CAL5@ 23J0974	27693.7	1.0	0.9884	313.77	1.13	-1.16%
SEQ-CAL6@ 23J0975	139894.1	5.0	4.993	236.80	0.17	-0.14%
SEQ-CAL7@ 23J0976	280348.1	10.0	10.01	2048.37	0.73	0.06%
Correlation Coef.: 0.999998 Slope: 28020 Intercept: 0.0						

Calibration data for Fe 238.204

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	4.36	6.73	N/A
SEQ-CAL2@ 23J0971	269.1	0.05	0.0553	7.07	2.63	10.64%
SEQ-CAL3@ 23J0972	652.1	0.125	0.1341	9.79	1.50	7.25%
SEQ-CAL4@ 23J0973	2580.9	0.5	0.5306	45.15	1.75	6.12%
SEQ-CAL5@ 23J0974	5287.0	1.0	1.087	37.63	0.71	8.69%
SEQ-CAL6@ 23J0975	24277.2	5.0	4.991	527.14	2.17	-0.18%
SEQ-CAL7@ 23J0976	49378.0	10.0	10.15	571.96	1.16	1.52%
SEQ-CAL8@ 23J0977	121294.9	25.0	24.94	438.55	0.36	-0.25%

Correlation Coef.: 0.999976 Slope: 4864 Intercept: 0.0

Calibration data for K 766.490

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	70.52	7.60	N/A
SEQ-CAL5@ 23J0974	3233.7	2.0	1.805	58.23	1.80	-9.73%
SEQ-CAL6@ 23J0975	16649.6	10.0	9.296	297.80	1.79	-7.04%
SEQ-CAL7@ 23J0976	36006.9	20.0	20.10	334.81	0.93	0.52%
SEQ-CAL8@ 23J0977	89746.5	50.0	50.11	196.85	0.22	0.21%

Correlation Coef.: 0.999907 Slope: 1791 Intercept: 0.0

Calibration data for Mg 285.213

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	10.14	27.87	N/A
SEQ-CAL2@ 23J0971	578.8	0.05	0.0502	1.50	0.26	0.45%
SEQ-CAL3@ 23J0972	3009.3	0.25	0.2611	36.81	1.22	4.46%
SEQ-CAL4@ 23J0973	11980.3	1.0	1.040	164.06	1.37	3.96%
SEQ-CAL5@ 23J0974	24894.3	2.0	2.160	65.22	0.26	8.01%
SEQ-CAL6@ 23J0975	117542.8	10.0	10.20	2526.26	2.15	2.00%
SEQ-CAL7@ 23J0976	239187.6	20.0	20.76	2396.59	1.00	3.78%
SEQ-CAL8@ 23J0977	572165.4	50.0	49.65	1940.03	0.34	-0.70%

Correlation Coef.: 0.999873 Slope: 11520 Intercept: 0.0

Calibration data for Mn 257.610

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	4.58	6.07	N/A
SEQ-CAL2@ 23J0971	296.5	0.01	0.0100	3.60	1.21	0.07%
SEQ-CAL3@ 23J0972	3751.0	0.125	0.1266	39.40	1.05	1.28%
SEQ-CAL4@ 23J0973	14987.1	0.5	0.5058	225.74	1.51	1.16%
SEQ-CAL5@ 23J0974	30659.0	1.0	1.035	148.77	0.49	3.48%
SEQ-CAL6@ 23J0975	145757.2	5.0	4.919	3009.68	2.06	-1.61%
SEQ-CAL7@ 23J0976	297372.3	10.0	10.04	2903.92	0.98	0.37%

Correlation Coef.: 0.999964 Slope: 29630 Intercept: 0.0

Calibration data for Mo 202.031

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.70	62.46	N/A
SEQ-CAL2@ 23J0971	295.5	0.05	0.0509	10.30	3.49	1.78%
SEQ-CAL3@ 23J0972	758.6	0.125	0.1306	13.65	1.80	4.50%
SEQ-CAL4@ 23J0973	2976.5	0.5	0.5125	84.05	2.82	2.51%
SEQ-CAL5@ 23J0974	5747.5	1.0	0.9897	79.36	1.38	-1.03%
SEQ-CAL6@ 23J0975	29271.0	5.0	5.040	137.26	0.47	0.81%
SEQ-CAL7@ 23J0976	57958.3	10.0	9.980	247.90	0.43	-0.20%

Correlation Coef.: 0.999991 Slope: 5807 Intercept: 0.0

Calibration data for Na 589.592

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	85.13	16.54	N/A
SEQ-CAL5@ 23J0974	15158.7	2.0	2.197	13.42	0.09	9.86%
SEQ-CAL6@ 23J0975	71974.6	10.0	10.43	1314.31	1.83	4.33%
SEQ-CAL7@ 23J0976	144835.3	20.0	20.99	1342.18	0.93	4.97%
SEQ-CAL8@ 23J0977	341555.6	50.0	49.51	1390.19	0.41	-0.98%

Correlation Coef.: 0.999758 Slope: 6899 Intercept: 0.0

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	22.14	10.26	N/A
SEQ-CAL2@ 23J0971	109.6	0.01	0.0096	6.03	5.50	-3.95%
SEQ-CAL3@ 23J0972	1485.9	0.125	0.1302	27.85	1.87	4.18%
SEQ-CAL4@ 23J0973	5965.8	0.5	0.5229	75.82	1.27	4.57%
SEQ-CAL5@ 23J0974	12015.2	1.0	1.053	155.02	1.29	5.30%
SEQ-CAL6@ 23J0975	57762.4	5.0	5.062	176.44	0.31	1.25%
SEQ-CAL7@ 23J0976	113668.3	10.0	9.962	667.22	0.59	-0.38%
Correlation Coef.: 0.999966		Slope: 11410	Intercept: 0.0			

Equation: Linear Through Zero

[illegible]

Equation: Linear Through Zero

[illegible]

Equation: Linear Through Zero

[illegible]

Equation: Linear Through Zero

[illegible]

Calibration data for Ti 337.279

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	52.91	17.37	N/A
SEQ-CAL2@ 23J0971	596.3	0.02	0.0185	7.05	1.18	-7.50%
SEQ-CAL3@ 23J0972	3977.1	0.125	0.1234	69.58	1.75	-1.29%
SEQ-CAL4@ 23J0973	16033.0	0.5	0.4974	237.50	1.48	-0.51%
SEQ-CAL5@ 23J0974	31339.3	1.0	0.9723	130.98	0.42	-2.77%
SEQ-CAL6@ 23J0975	158695.4	5.0	4.924	3034.10	1.91	-1.53%
SEQ-CAL7@ 23J0976	323640.3	10.0	10.04	3101.75	0.96	0.41%
Correlation Coef.: 0.999967 Slope: 32230 Intercept: 0.0						

Calibration data for Tl 351.924

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.50	10.40	N/A
SEQ-CAL2@ 23J0971	44.4	0.05	0.0545	2.06	4.64	8.92%
SEQ-CAL3@ 23J0972	48.0	0.0625	0.0589	10.92	22.74	-5.79%
SEQ-CAL4@ 23J0973	197.3	0.25	0.2419	9.06	4.59	-3.23%
SEQ-CAL5@ 23J0974	411.4	0.5	0.5045	7.68	1.87	0.91%
SEQ-CAL6@ 23J0975	2059.5	2.5	2.526	22.60	1.10	1.03%
SEQ-CAL7@ 23J0976	4066.6	5.0	4.987	250.24	6.15	-0.26%
Correlation Coef.: 0.999985 Slope: 815.4 Intercept: 0.0						

Calibration data for V 290.880

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	95.15	10.08	N/A
SEQ-CAL2@ 23J0971	289.6	0.01	0.0105	17.14	5.92	4.60%
SEQ-CAL3@ 23J0972	3483.1	0.125	0.1258	74.05	2.13	0.66%
SEQ-CAL4@ 23J0973	13799.0	0.5	0.4985	157.43	1.14	-0.31%
SEQ-CAL5@ 23J0974	27942.9	1.0	1.009	331.60	1.19	0.94%
SEQ-CAL6@ 23J0975	138650.1	5.0	5.008	146.32	0.11	0.17%
SEQ-CAL7@ 23J0976	276697.0	10.0	9.995	1622.17	0.59	-0.05%
Correlation Coef.: 0.999999 Slope: 27680 Intercept: 0.0						

Calibration data for Zn 206.200

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	8.92	6.53	N/A
SEQ-CAL2@ 23J0971	126.7	0.01	0.0110	8.36	6.60	10.04%
SEQ-CAL3@ 23J0972	1514.4	0.125	0.1316	39.23	2.59	5.25%
SEQ-CAL4@ 23J0973	6148.5	0.5	0.5342	120.80	1.96	6.83%
SEQ-CAL5@ 23J0974	12314.8	1.0	1.070	116.86	0.95	6.98%
SEQ-CAL6@ 23J0975	58268.2	5.0	5.062	306.56	0.53	1.24%
SEQ-CAL7@ 23J0976	114649.3	10.0	9.960	1356.95	1.18	-0.40%
Correlation Coef.: 0.999954 Slope: 11510 Intercept: 0.0						

Calibration data for Zr 343.823

Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	16.23	95.18	N/A
SEQ-CAL3@ 23J0972	8077.0	0.125	0.1248	106.48	1.32	-0.17%
SEQ-CAL4@ 23J0973	32478.8	0.5	0.5018	399.25	1.23	0.36%
SEQ-CAL5@ 23J0974	62113.5	1.0	0.9597	746.72	1.20	-4.03%
SEQ-CAL6@ 23J0975	326649.3	5.0	5.047	490.25	0.15	0.94%
SEQ-CAL7@ 23J0976	645983.9	10.0	9.981	4854.41	0.75	-0.19%
Correlation Coef.: 0.999983 Slope: 64720 Intercept: 0.0						

ALL PASSED - HNN 041924

Method Loaded

Method Name: ICP4_012224*

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/19/2024 1:36:07 PM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 8

Date Collected: 4/19/2024 2:43:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SEQ-ICV@ 23K0257

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Y radial	177597.0	177597.0	79.9 %		79.9 %		2:44:14 PM
1	Al 396.153†	6836.7	8606.9	2.129 mg/L		2.129 mg/L		2:44:16 PM
1	Ba 233.527†	11182.6	13682.0	2.079 mg/L		2.079 mg/L		2:44:16 PM
1	Be 313.107†	1065790.5	1330519.7	1.984 mg/L		1.984 mg/L		2:44:14 PM
1	Ca 317.933†	15546.3	17613.3	2.190 mg/L		2.190 mg/L		2:44:16 PM
1	Fe 238.204†	8696.1	10812.5	2.248 mg/L		2.248 mg/L		2:44:16 PM
1	K 766.490†	1912.9	3320.7	1.854 mg/L		1.854 mg/L		2:44:16 PM
1	Mg 285.213†	20139.5	25227.1	2.184 mg/L		2.184 mg/L		2:44:16 PM
1	Mn 257.610†	48253.1	60430.9	2.040 mg/L		2.040 mg/L		2:44:16 PM
1	Na 589.592†	12415.7	15015.1	2.176 mg/L		2.176 mg/L		2:44:16 PM
1	Ti 337.279†	51833.8	65138.8	2.020 mg/L		2.020 mg/L		2:44:16 PM
1	Y axial	762951.6	762951.6	81.7 %		81.7 %		2:44:36 PM
1	As 188.979†	710.7	875.9	2.045 mg/L		2.045 mg/L		2:44:59 PM
1	B 208.889†	4241.1	5136.1	1.829 mg/L		1.829 mg/L		2:44:59 PM
1	Cd 228.802†	15807.8	19282.5	1.993 mg/L		1.993 mg/L		2:44:39 PM
1	Co 228.616†	12101.2	14859.3	2.045 mg/L		2.045 mg/L		2:44:39 PM
1	Cr 267.716†	27931.0	34139.0	2.104 mg/L		2.104 mg/L		2:44:39 PM
1	Cu 327.393†	46128.3	56447.7	2.026 mg/L		2.026 mg/L		2:44:39 PM
1	Mo 202.031†	9765.7	11951.9	2.058 mg/L		2.058 mg/L		2:44:39 PM

1	Ni 231.604†	19506.5	24080.6	2.108 mg/L	2.108 mg/L	2:44:39 PM
1	Pb 220.353†	2830.5	3369.5	2.109 mg/L	2.109 mg/L	2:44:59 PM
1	Sb 206.836†	1500.0	1791.6	2.070 mg/L	2.070 mg/L	2:44:59 PM
1	Se 196.026†	802.2	963.6	2.056 mg/L	2.056 mg/L	2:44:59 PM
1	Sn 189.927†	2916.0	3565.2	2.102 mg/L	2.102 mg/L	2:44:59 PM
1	Tl 351.924†	650.7	810.6	1.021 mg/L	1.021 mg/L	2:44:59 PM
1	V 290.880†	46747.1	56248.0	2.032 mg/L	2.032 mg/L	2:44:39 PM
1	Zn 206.200†	20281.4	24676.2	2.154 mg/L	2.154 mg/L	2:44:39 PM
1	Zr 343.823†	105484.3	129035.1	1.994 mg/L	1.994 mg/L	2:44:39 PM
1	Ag 328.068†	13217.1	16204.6	0.9925 mg/L	0.9925 mg/L	2:46:27 PM
2	Y radial	176341.4	176341.4	79.4 %	79.4 %	2:44:19 PM
2	Al 396.153†	6729.8	8533.2	2.110 mg/L	2.110 mg/L	2:44:21 PM
2	Ba 233.527†	11067.3	13393.9	2.036 mg/L	2.036 mg/L	2:44:21 PM
2	Be 313.107†	1063693.3	1337369.8	1.994 mg/L	1.994 mg/L	2:44:19 PM
2	Ca 317.933†	15372.0	17532.3	2.180 mg/L	2.180 mg/L	2:44:21 PM
2	Fe 238.204†	8638.2	10816.9	2.249 mg/L	2.249 mg/L	2:44:21 PM
2	K 766.490†	1886.7	3304.7	1.845 mg/L	1.845 mg/L	2:44:21 PM
2	Mg 285.213†	19801.3	24980.4	2.163 mg/L	2.163 mg/L	2:44:21 PM
2	Mn 257.610†	47678.5	60136.8	2.030 mg/L	2.030 mg/L	2:44:21 PM
2	Na 589.592†	12336.8	15026.2	2.178 mg/L	2.178 mg/L	2:44:21 PM
2	Ti 337.279†	51100.9	64677.1	2.006 mg/L	2.006 mg/L	2:44:21 PM
2	Y axial	771326.5	771326.5	82.6 %	82.6 %	2:45:01 PM
2	As 188.979†	751.7	916.1	2.140 mg/L	2.140 mg/L	2:45:23 PM
2	B 208.889†	4493.4	5385.1	1.923 mg/L	1.923 mg/L	2:45:23 PM
2	Cd 228.802†	15981.3	19282.4	1.990 mg/L	1.990 mg/L	2:45:03 PM
2	Co 228.616†	12222.3	14845.2	2.043 mg/L	2.043 mg/L	2:45:03 PM
2	Cr 267.716†	28462.8	34411.6	2.121 mg/L	2.121 mg/L	2:45:03 PM
2	Cu 327.393†	46640.0	56454.2	2.026 mg/L	2.026 mg/L	2:45:03 PM
2	Mo 202.031†	9909.1	11995.7	2.066 mg/L	2.066 mg/L	2:45:03 PM
2	Ni 231.604†	19803.0	24180.3	2.117 mg/L	2.117 mg/L	2:45:03 PM
2	Pb 220.353†	3012.7	3552.3	2.224 mg/L	2.224 mg/L	2:45:23 PM
2	Sb 206.836†	1577.1	1865.0	2.154 mg/L	2.154 mg/L	2:45:23 PM
2	Se 196.026†	851.7	1012.8	2.161 mg/L	2.161 mg/L	2:45:23 PM
2	Sn 189.927†	3076.9	3721.2	2.194 mg/L	2.194 mg/L	2:45:23 PM
2	Tl 351.924†	683.7	841.7	1.059 mg/L	1.059 mg/L	2:45:23 PM
2	V 290.880†	47240.1	56223.7	2.031 mg/L	2.031 mg/L	2:45:03 PM
2	Zn 206.200†	20666.3	24872.5	2.171 mg/L	2.171 mg/L	2:45:03 PM
2	Zr 343.823†	106272.7	128588.0	1.987 mg/L	1.987 mg/L	2:45:03 PM
2	Ag 328.068†	13724.4	16643.0	1.019 mg/L	1.019 mg/L	2:46:29 PM
3	Y radial	178158.4	178158.4	80.2 %	80.2 %	2:44:24 PM
3	Al 396.153†	6694.8	8403.1	2.077 mg/L	2.077 mg/L	2:44:26 PM
3	Ba 233.527†	10867.9	12472.0	1.895 mg/L	1.895 mg/L	2:44:26 PM
3	Be 313.107†	1070655.8	1332385.6	1.987 mg/L	1.987 mg/L	2:44:24 PM
3	Ca 317.933†	15205.0	17126.5	2.129 mg/L	2.129 mg/L	2:44:26 PM
3	Fe 238.204†	8493.4	10525.4	2.188 mg/L	2.188 mg/L	2:44:26 PM
3	K 766.490†	1834.9	3215.9	1.796 mg/L	1.796 mg/L	2:44:26 PM
3	Mg 285.213†	19681.1	24576.1	2.128 mg/L	2.128 mg/L	2:44:26 PM
3	Mn 257.610†	47211.4	58941.9	1.989 mg/L	1.989 mg/L	2:44:26 PM
3	Na 589.592†	12171.5	14661.6	2.125 mg/L	2.125 mg/L	2:44:26 PM
3	Ti 337.279†	50585.3	63377.8	1.966 mg/L	1.966 mg/L	2:44:26 PM
3	Y axial	813424.4	813424.4	87.1 %	87.1 %	2:45:26 PM
3	As 188.979†	751.6	868.9	2.029 mg/L	2.029 mg/L	2:45:48 PM
3	B 208.889†	4540.6	5157.8	1.838 mg/L	1.838 mg/L	2:45:48 PM
3	Cd 228.802†	16438.9	18806.7	1.943 mg/L	1.943 mg/L	2:45:28 PM
3	Co 228.616†	12740.2	14673.9	2.019 mg/L	2.019 mg/L	2:45:28 PM
3	Cr 267.716†	29388.4	33691.1	2.076 mg/L	2.076 mg/L	2:45:28 PM
3	Cu 327.393†	48162.2	55279.8	1.984 mg/L	1.984 mg/L	2:45:28 PM
3	Mo 202.031†	10281.8	11802.8	2.032 mg/L	2.032 mg/L	2:45:28 PM
3	Ni 231.604†	20583.6	23835.9	2.087 mg/L	2.087 mg/L	2:45:28 PM
3	Pb 220.353†	3029.3	3382.7	2.118 mg/L	2.118 mg/L	2:45:48 PM
3	Sb 206.836†	1583.1	1773.1	2.048 mg/L	2.048 mg/L	2:45:48 PM
3	Se 196.026†	860.4	969.5	2.068 mg/L	2.068 mg/L	2:45:48 PM
3	Sn 189.927†	3114.4	3571.6	2.106 mg/L	2.106 mg/L	2:45:48 PM
3	Tl 351.924†	695.9	813.0	1.023 mg/L	1.023 mg/L	2:45:48 PM
3	V 290.880†	48939.3	55214.8	1.995 mg/L	1.995 mg/L	2:45:28 PM
3	Zn 206.200†	21618.8	24671.2	2.154 mg/L	2.154 mg/L	2:45:28 PM
3	Zr 343.823†	110267.2	126515.9	1.955 mg/L	1.955 mg/L	2:45:28 PM
3	Ag 328.068†	13615.6	15658.6	0.9590 mg/L	0.9590 mg/L	2:46:32 PM
4	Y radial	176946.6	176946.6	79.7 %	79.7 %	2:44:29 PM
4	Al 396.153†	6633.8	8383.6	2.069 mg/L	2.069 mg/L	2:44:31 PM

4	Ba	233.527†	10904.2	12811.8	1.947	mg/L	1.947	mg/L	2:44:31	PM
4	Be	313.107†	1061903.1	1330540.2	1.984	mg/L	1.984	mg/L	2:44:29	PM
4	Ca	317.933†	15168.0	17210.0	2.140	mg/L	2.140	mg/L	2:44:31	PM
4	Fe	238.204†	8493.7	10598.3	2.204	mg/L	2.204	mg/L	2:44:31	PM
4	K	766.490†	1886.4	3296.2	1.840	mg/L	1.840	mg/L	2:44:31	PM
4	Mg	285.213†	19718.4	24791.0	2.146	mg/L	2.146	mg/L	2:44:31	PM
4	Mn	257.610†	47310.3	59469.1	2.007	mg/L	2.007	mg/L	2:44:31	PM
4	Na	589.592†	12281.3	14903.4	2.160	mg/L	2.160	mg/L	2:44:31	PM
4	Ti	337.279†	50928.9	64241.1	1.992	mg/L	1.992	mg/L	2:44:31	PM
4	Y axial		794490.1	794490.1	85.1	%	85.1	%	2:45:51	PM
4	As	188.979†	761.9	901.5	2.105	mg/L	2.105	mg/L	2:46:13	PM
4	B	208.889†	4592.5	5343.0	1.905	mg/L	1.905	mg/L	2:46:13	PM
4	Cd	228.802†	16346.8	19148.1	1.977	mg/L	1.977	mg/L	2:45:53	PM
4	Co	228.616†	12689.1	14962.3	2.059	mg/L	2.059	mg/L	2:45:53	PM
4	Cr	267.716†	29235.4	34315.1	2.115	mg/L	2.115	mg/L	2:45:53	PM
4	Cu	327.393†	47918.7	56310.9	2.021	mg/L	2.021	mg/L	2:45:53	PM
4	Mo	202.031†	10320.6	12129.6	2.089	mg/L	2.089	mg/L	2:45:53	PM
4	Ni	231.604†	20460.4	24254.0	2.123	mg/L	2.123	mg/L	2:45:53	PM
4	Pb	220.353†	3063.1	3505.2	2.194	mg/L	2.194	mg/L	2:46:13	PM
4	Sb	206.836†	1607.9	1845.6	2.132	mg/L	2.132	mg/L	2:46:13	PM
4	Se	196.026†	873.9	1008.9	2.152	mg/L	2.152	mg/L	2:46:13	PM
4	Sn	189.927†	3146.9	3694.8	2.178	mg/L	2.178	mg/L	2:46:13	PM
4	Tl	351.924†	702.3	839.6	1.056	mg/L	1.056	mg/L	2:46:13	PM
4	V	290.880†	48751.3	56332.3	2.035	mg/L	2.035	mg/L	2:45:53	PM
4	Zn	206.200†	21412.2	25019.7	2.184	mg/L	2.184	mg/L	2:45:53	PM
4	Zr	343.823†	109522.4	128656.4	1.988	mg/L	1.988	mg/L	2:45:53	PM
4	Aq	328.068†	13724.2	16158.5	0.9897	mg/L	0.9897	mg/L	2:46:35	PM

Mean Data: SEQ-ICV@ 23K0257

Analyte		Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
		Intensity	Conc. Units		Conc. Units		
Y radial		177260.9	79.8 %	0.35	79.8 %	0.35	0.44%
Y axial		785548.1	84.2 %	2.45	84.2 %	2.45	2.91%
Ag 328.068†		16166.2	0.9902 mg/L	0.02471	0.9902 mg/L	0.02471	2.50%
QC value	within limits for Ag 328.068		Recovery = 99.02%				
Al 396.153†		8481.7	2.096 mg/L	0.0282	2.096 mg/L	0.0282	1.34%
QC value	within limits for Al 396.153		Recovery = 104.81%				
As 188.979†		890.6	2.080 mg/L	0.0517	2.080 mg/L	0.0517	2.49%
QC value	within limits for As 188.979		Recovery = 103.98%				
B 208.889†		5255.5	1.874 mg/L	0.0471	1.874 mg/L	0.0471	2.52%
QC value	less than the lower limit for B 208.889		Recovery = 93.69%				
Ba 233.527†		13089.9	1.989 mg/L	0.0833	1.989 mg/L	0.0833	4.19%
QC value	within limits for Ba 233.527		Recovery = 99.47%				
Be 313.107†		1332703.8	1.987 mg/L	0.0048	1.987 mg/L	0.0048	0.24%
QC value	within limits for Be 313.107		Recovery = 99.35%				
Ca 317.933†		17370.5	2.160 mg/L	0.0296	2.160 mg/L	0.0296	1.37%
QC value	greater than the upper limit for Ca 317.933		Recovery = 107.99%				
Cd 228.802†		19129.9	1.976 mg/L	0.0230	1.976 mg/L	0.0230	1.17%
QC value	within limits for Cd 228.802		Recovery = 98.80%				
Co 228.616†		14835.2	2.041 mg/L	0.0165	2.041 mg/L	0.0165	0.81%
QC value	within limits for Co 228.616		Recovery = 102.07%				
Cr 267.716†		34139.2	2.104 mg/L	0.0197	2.104 mg/L	0.0197	0.94%
QC value	greater than the upper limit for Cr 267.716		Recovery = 105.20%				
Cu 327.393†		56123.2	2.015 mg/L	0.0203	2.015 mg/L	0.0203	1.01%
QC value	within limits for Cu 327.393		Recovery = 100.73%				
Fe 238.204†		10688.3	2.222 mg/L	0.0307	2.222 mg/L	0.0307	1.38%
QC value	greater than the upper limit for Fe 238.204		Recovery = 111.11%				
K 766.490†		3284.4	1.834 mg/L	0.0261	1.834 mg/L	0.0261	1.42%
QC value	less than the lower limit for K 766.490		Recovery = 91.69%				
Mg 285.213†		24893.6	2.155 mg/L	0.0240	2.155 mg/L	0.0240	1.11%
QC value	greater than the upper limit for Mg 285.213		Recovery = 107.75%				
Mn 257.610†		59744.7	2.016 mg/L	0.0226	2.016 mg/L	0.0226	1.12%
QC value	within limits for Mn 257.610		Recovery = 100.82%				
Mo 202.031†		11970.0	2.061 mg/L	0.0232	2.061 mg/L	0.0232	1.13%
QC value	within limits for Mo 202.031		Recovery = 103.06%				
Na 589.592†		14901.6	2.160 mg/L	0.0245	2.160 mg/L	0.0245	1.14%
QC value	greater than the upper limit for Na 589.592		Recovery = 108.00%				
Ni 231.604†		24087.7	2.109 mg/L	0.0160	2.109 mg/L	0.0160	0.76%
QC value	greater than the upper limit for Ni 231.604		Recovery = 105.45%				

Pb 220.353† 3452.4 2.161 mg/L 0.0565 2.161 mg/L 0.0565 2.61%
 QC value greater than the upper limit for Pb 220.353 Recovery = 108.06%
 Sb 206.836† 1818.8 2.101 mg/L 0.0502 2.101 mg/L 0.0502 2.39%
 QC value greater than the upper limit for Sb 206.836 Recovery = 105.05%
 Se 196.026† 988.7 2.109 mg/L 0.0549 2.109 mg/L 0.0549 2.60%
 QC value greater than the upper limit for Se 196.026 Recovery = 105.46%
 Sn 189.927† 3638.2 2.145 mg/L 0.0479 2.145 mg/L 0.0479 2.23%
 QC value greater than the upper limit for Sn 189.927 Recovery = 107.24%
 Ti 337.279† 64358.7 1.996 mg/L 0.0233 1.996 mg/L 0.0233 1.16%
 QC value within limits for Ti 337.279 Recovery = 99.80%
 Tl 351.924† 826.2 1.040 mg/L 0.0206 1.040 mg/L 0.0206 1.98%
 QC value within limits for Tl 351.924 Recovery = 104.00%
 V 290.880† 56004.7 2.023 mg/L 0.0191 2.023 mg/L 0.0191 0.94%
 QC value within limits for V 290.880 Recovery = 101.17%
 Zn 206.200† 24809.9 2.166 mg/L 0.0147 2.166 mg/L 0.0147 0.68%
 QC value greater than the upper limit for Zn 206.200 Recovery = 108.29%
 Zr 343.823† 128198.8 1.981 mg/L 0.0176 1.981 mg/L 0.0176 0.89%
 QC value within limits for Zr 343.823 Recovery = 99.03%
 QC Failed. Continue with analysis.
 User canceled analysis.

ALL OK FOR 6010 - NO 200.7 - HNN

041924

Method Loaded

Method Name: ICP4_012224*

IEC File: 111223 IEC.iec

Method Description: Soils and Waters

Method Last Saved: 4/19/2024 2:46:51 PM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500

Sequence No.: 2

Sample ID: SEQ-ICB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/19/2024 2:52:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB@ 23J0970

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	202299.4	91.1 %	1.06	91.1 %	1.06	1.17%
Y axial	874162.3	93.7 %	1.16	93.7 %	1.16	1.24%
Ag 328.068†	-3.3	-0.0002 mg/L	0.00023	-0.0002 mg/L	0.00023	110.72%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	72.8	0.0192 mg/L	0.00633	0.0192 mg/L	0.00633	32.95%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	4.4	0.0103 mg/L	0.00624	0.0103 mg/L	0.00624	60.39%
QC value greater than the upper limit for As 188.979	Recovery = Not calculated					
B 208.889†	16.4	0.0062 mg/L	0.00151	0.0062 mg/L	0.00151	24.38%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	3.2	0.0005 mg/L	0.00077	0.0005 mg/L	0.00077	160.53%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	-292.8	-0.0004 mg/L	0.00006	-0.0004 mg/L	0.00006	13.79%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	-16.9	-0.0021 mg/L	0.00252	-0.0021 mg/L	0.00252	120.28%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	7.5	0.0005 mg/L	0.00036	0.0005 mg/L	0.00036	71.83%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	1.3	0.0002 mg/L	0.00107	0.0002 mg/L	0.00107	576.80%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	6.8	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	21.03%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	14.3	0.0005 mg/L	0.00121	0.0005 mg/L	0.00121	235.09%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	-2.5	-0.0005 mg/L	0.00111	-0.0005 mg/L	0.00111	218.88%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	94.9	0.0530 mg/L	0.00764	0.0530 mg/L	0.00764	14.43%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	8.5	0.0007 mg/L	0.00101	0.0007 mg/L	0.00101	136.77%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	6.3	0.0002 mg/L	0.00020	0.0002 mg/L	0.00020	93.53%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	2.9	0.0005 mg/L	0.00073	0.0005 mg/L	0.00073	144.11%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	71.9	0.0104 mg/L	0.00933	0.0104 mg/L	0.00933	89.54%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	5.1	0.0004 mg/L	0.00058	0.0004 mg/L	0.00058	130.88%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	8.3	0.0052 mg/L	0.00185	0.0052 mg/L	0.00185	35.66%
QC value greater than the upper limit for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-4.0	-0.0046 mg/L	0.00486	-0.0046 mg/L	0.00486	105.77%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-3.8	-0.0080 mg/L	0.00305	-0.0080 mg/L	0.00305	38.00%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	2.9	0.0017 mg/L	0.00078	0.0017 mg/L	0.00078	46.54%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-83.5	-0.0026 mg/L	0.00019	-0.0026 mg/L	0.00019	7.27%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	5.4	0.0067 mg/L	0.01045	0.0067 mg/L	0.01045	156.31%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	-10.4	-0.0004 mg/L	0.00041	-0.0004 mg/L	0.00041	107.52%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	-8.5	-0.0007 mg/L	0.00038	-0.0007 mg/L	0.00038	51.08%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	31.7	0.0005 mg/L	0.00034	0.0005 mg/L	0.00034	68.85%
QC Failed. Continue with analysis.						

NO AS, PB - HNN 041924

Batch ID: AVIO 500

Sequence No.: 3

Sample ID: SEQ-LCV@ 23J0971

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 14

Date Collected: 4/19/2024 2:59:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV@ 23J0971

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	216049.4	97.3 %	1.16	97.3 %	1.16	1.19%
Y axial	945885.3	101 %	1.29	101 %	1.29	1.27%
Ag 328.068†	141.5	0.0087 mg/L	0.00025	0.0087 mg/L	0.00025	2.88%
QC value within limits for Ag 328.068 Recovery = 87.40%						
Al 396.153†	245.9	0.0621 mg/L	0.02472	0.0621 mg/L	0.02472	39.80%
QC value greater than the upper limit for Al 396.153 Recovery = 124.25%						
As 188.979†	3.9	0.0089 mg/L	0.00663	0.0089 mg/L	0.00663	74.52%
QC value within limits for As 188.979 Recovery = 88.92%						
B 208.889†	238.9	0.0877 mg/L	0.00198	0.0877 mg/L	0.00198	2.26%
QC value within limits for B 208.889 Recovery = 87.72%						
Ba 233.527†	325.8	0.0495 mg/L	0.00141	0.0495 mg/L	0.00141	2.85%
QC value within limits for Ba 233.527 Recovery = 99.04%						
Be 313.107†	2184.9	0.0032 mg/L	0.00003	0.0032 mg/L	0.00003	1.07%
QC value within limits for Be 313.107 Recovery = 81.14%						
Ca 317.933†	4151.5	0.5162 mg/L	0.00252	0.5162 mg/L	0.00252	0.49%
QC value within limits for Ca 317.933 Recovery = 103.24%						
Cd 228.802†	35.5	0.0036 mg/L	0.00004	0.0036 mg/L	0.00004	1.02%
QC value within limits for Cd 228.802 Recovery = 89.03%						
Co 228.616†	78.2	0.0108 mg/L	0.00019	0.0108 mg/L	0.00019	1.73%
QC value within limits for Co 228.616 Recovery = 108.06%						
Cr 267.716†	162.4	0.0100 mg/L	0.00016	0.0100 mg/L	0.00016	1.64%
QC value within limits for Cr 267.716 Recovery = 100.05%						
Cu 327.393†	287.4	0.0103 mg/L	0.00087	0.0103 mg/L	0.00087	8.41%
QC value within limits for Cu 327.393 Recovery = 102.93%						
Fe 238.204†	261.5	0.0539 mg/L	0.00090	0.0539 mg/L	0.00090	1.68%
QC value within limits for Fe 238.204 Recovery = 107.80%						
K 766.490†	3109.0	1.736 mg/L	0.0546	1.736 mg/L	0.0546	3.14%
QC value within limits for K 766.490 Recovery = 86.79%						
Mg 285.213†	588.0	0.0509 mg/L	0.00054	0.0509 mg/L	0.00054	1.06%
QC value within limits for Mg 285.213 Recovery = 101.84%						
Mn 257.610†	303.4	0.0102 mg/L	0.00007	0.0102 mg/L	0.00007	0.68%
QC value within limits for Mn 257.610 Recovery = 102.40%						
Mo 202.031†	285.0	0.0491 mg/L	0.00112	0.0491 mg/L	0.00112	2.29%
QC value within limits for Mo 202.031 Recovery = 98.14%						
Na 589.592†	13585.3	1.969 mg/L	0.0118	1.969 mg/L	0.0118	0.60%
QC value within limits for Na 589.592 Recovery = 98.46%						
Ni 231.604†	138.0	0.0121 mg/L	0.00055	0.0121 mg/L	0.00055	4.53%
QC value greater than the upper limit for Ni 231.604 Recovery = 120.71%						
Pb 220.353†	17.3	0.0109 mg/L	0.00257	0.0109 mg/L	0.00257	23.50%
QC value within limits for Pb 220.353 Recovery = 109.18%						
Sb 206.836†	31.0	0.0365 mg/L	0.00230	0.0365 mg/L	0.00230	6.29%
QC value less than the lower limit for Sb 206.836 Recovery = 73.02%						
Se 196.026†	20.4	0.0436 mg/L	0.00736	0.0436 mg/L	0.00736	16.90%
QC value within limits for Se 196.026 Recovery = 87.11%						
Sn 189.927†	166.5	0.0981 mg/L	0.00280	0.0981 mg/L	0.00280	2.86%
QC value within limits for Sn 189.927 Recovery = 98.06%						
Ti 337.279†	616.6	0.0191 mg/L	0.00064	0.0191 mg/L	0.00064	3.32%
QC value within limits for Ti 337.279 Recovery = 95.66%						
Tl 351.924†	48.0	0.0588 mg/L	0.01182	0.0588 mg/L	0.01182	20.10%
QC value within limits for Tl 351.924 Recovery = 117.63%						
V 290.880†	217.7	0.0079 mg/L	0.00058	0.0079 mg/L	0.00058	7.38%
QC value less than the lower limit for V 290.880 Recovery = 78.71%						
Zn 206.200†	115.1	0.0099 mg/L	0.00042	0.0099 mg/L	0.00042	4.24%
QC value within limits for Zn 206.200 Recovery = 98.66%						
Zr 343.823†	25.7	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	60.07%
QC Failed. Continue with analysis.						

NO AL, NI, SB, V - HNN 041924

Batch ID: AVIO 500

Sequence No.: 4

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 5

Date Collected: 4/19/2024 3:08:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Mean Corrected

Calib.

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	212975.1	95.9 %	0.27	95.9 %	0.27	0.29%
Y axial	894808.1	95.9 %	1.19	95.9 %	1.19	1.25%
Ag 328.068†	36106.1	2.211 mg/L	0.0347	2.211 mg/L	0.0347	1.57%
QC value less than the lower limit for Ag 328.068 Recovery = 88.44%						
Al 396.153†	37471.7	9.551 mg/L	0.1046	9.551 mg/L	0.1046	1.10%
QC value within limits for Al 396.153 Recovery = 95.51%						
As 188.979†	2156.1	5.034 mg/L	0.0304	5.034 mg/L	0.0304	0.60%
QC value within limits for As 188.979 Recovery = 100.69%						
B 208.889†	12885.7	4.596 mg/L	0.0292	4.596 mg/L	0.0292	0.64%
QC value within limits for B 208.889 Recovery = 91.92%						
Ba 233.527†	33388.2	5.074 mg/L	0.1265	5.074 mg/L	0.1265	2.49%
QC value within limits for Ba 233.527 Recovery = 101.49%						
Be 313.107†	3152203.9	4.699 mg/L	0.0409	4.699 mg/L	0.0409	0.87%
QC value within limits for Be 313.107 Recovery = 93.99%						
Ca 317.933†	81869.7	10.18 mg/L	0.115	10.18 mg/L	0.115	1.13%
QC value within limits for Ca 317.933 Recovery = 101.79%						
Cd 228.802†	46110.1	4.762 mg/L	0.0212	4.762 mg/L	0.0212	0.44%
QC value within limits for Cd 228.802 Recovery = 95.25%						
Co 228.616†	36167.3	4.977 mg/L	0.0388	4.977 mg/L	0.0388	0.78%
QC value within limits for Co 228.616 Recovery = 99.55%						
Cr 267.716†	81776.0	5.040 mg/L	0.0185	5.040 mg/L	0.0185	0.37%
QC value within limits for Cr 267.716 Recovery = 100.80%						
Cu 327.393†	133443.5	4.791 mg/L	0.0092	4.791 mg/L	0.0092	0.19%
QC value within limits for Cu 327.393 Recovery = 95.82%						
Fe 238.204†	24503.3	5.098 mg/L	0.0677	5.098 mg/L	0.0677	1.33%
QC value within limits for Fe 238.204 Recovery = 101.96%						
K 766.490†	16812.7	9.387 mg/L	0.1367	9.387 mg/L	0.1367	1.46%
QC value within limits for K 766.490 Recovery = 93.87%						
Mg 285.213†	113286.0	9.816 mg/L	0.0958	9.816 mg/L	0.0958	0.98%
QC value within limits for Mg 285.213 Recovery = 98.16%						
Mn 257.610†	145508.8	4.911 mg/L	0.0542	4.911 mg/L	0.0542	1.10%
QC value within limits for Mn 257.610 Recovery = 98.22%						
Mo 202.031†	29208.5	5.030 mg/L	0.0347	5.030 mg/L	0.0347	0.69%
QC value within limits for Mo 202.031 Recovery = 100.59%						
Na 589.592†	67533.4	9.789 mg/L	0.1017	9.789 mg/L	0.1017	1.04%
QC value within limits for Na 589.592 Recovery = 97.89%						
Ni 231.604†	58357.2	5.109 mg/L	0.0263	5.109 mg/L	0.0263	0.52%
QC value within limits for Ni 231.604 Recovery = 102.18%						
Pb 220.353†	8230.7	5.153 mg/L	0.0391	5.153 mg/L	0.0391	0.76%
QC value within limits for Pb 220.353 Recovery = 103.07%						
Sb 206.836†	4312.1	4.983 mg/L	0.0355	4.983 mg/L	0.0355	0.71%
QC value within limits for Sb 206.836 Recovery = 99.66%						
Se 196.026†	2381.9	5.081 mg/L	0.0340	5.081 mg/L	0.0340	0.67%
QC value within limits for Se 196.026 Recovery = 101.63%						
Sn 189.927†	8792.1	5.183 mg/L	0.0388	5.183 mg/L	0.0388	0.75%
QC value within limits for Sn 189.927 Recovery = 103.66%						
Ti 337.279†	155421.3	4.820 mg/L	0.0561	4.820 mg/L	0.0561	1.16%
QC value within limits for Ti 337.279 Recovery = 96.40%						
Tl 351.924†	1986.9	2.502 mg/L	0.0128	2.502 mg/L	0.0128	0.51%
QC value within limits for Tl 351.924 Recovery = 100.08%						
V 290.880†	136303.4	4.925 mg/L	0.0257	4.925 mg/L	0.0257	0.52%
QC value within limits for V 290.880 Recovery = 98.50%						
Zn 206.200†	61505.7	5.368 mg/L	0.0408	5.368 mg/L	0.0408	0.76%
QC value within limits for Zn 206.200 Recovery = 107.36%						
Zr 343.823†	313440.0	4.842 mg/L	0.0210	4.842 mg/L	0.0210	0.43%
QC value within limits for Zr 343.823 Recovery = 96.85%						
QC Failed. Continue with analysis.						

NO AG - HNN 041924

Batch ID: AVIO 500

Sequence No.: 5

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 11

Date Collected: 4/19/2024 3:15:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	195024.6	87.8 %	0.66	87.8 %	0.66	0.76%
Y axial	789570.2	84.6 %	1.47	84.6 %	1.47	1.73%
Ag 328.068†	-150.9	0.0012 mg/L	0.00101	0.0012 mg/L	0.00101	85.04%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	963608.9	254.9 mg/L	1.95	254.9 mg/L	1.95	0.77%
QC value within limits for Al 396.153 Recovery = 101.94%						
As 188.979†	-1.9	0.0075 mg/L	0.01887	0.0075 mg/L	0.01887	250.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	16.8	0.0038 mg/L	0.00092	0.0038 mg/L	0.00092	24.32%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	55.2	0.0084 mg/L	0.00150	0.0084 mg/L	0.00150	17.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-87.3	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	97.58%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	2040039.3	253.7 mg/L	2.05	253.7 mg/L	2.05	0.81%
QC value within limits for Ca 317.933 Recovery = 101.46%						
Cd 228.802†	1.9	0.0003 mg/L	0.00095	0.0003 mg/L	0.00095	296.21%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-15.3	-0.0021 mg/L	0.00017	-0.0021 mg/L	0.00017	8.17%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	135.0	0.0109 mg/L	0.00067	0.0109 mg/L	0.00067	6.16%
QC value greater than the upper limit for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-23.2	0.0038 mg/L	0.00028	0.0038 mg/L	0.00028	7.28%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	488118.1	100.4 mg/L	0.76	100.4 mg/L	0.76	0.76%
QC value within limits for Fe 238.204 Recovery = 100.35%						
K 766.490†	27.3	0.0152 mg/L	0.01583	0.0152 mg/L	0.01583	103.83%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	2779069.3	241.2 mg/L	1.82	241.2 mg/L	1.82	0.76%
QC value within limits for Mg 285.213 Recovery = 96.46%						
Mn 257.610†	-114.4	-0.0012 mg/L	0.00011	-0.0012 mg/L	0.00011	9.79%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	262.1	0.0451 mg/L	0.00233	0.0451 mg/L	0.00233	5.15%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	356.9	0.0517 mg/L	0.00309	0.0517 mg/L	0.00309	5.97%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-93.3	-0.0031 mg/L	0.00136	-0.0031 mg/L	0.00136	44.16%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	1.1	0.0235 mg/L	0.00286	0.0235 mg/L	0.00286	12.21%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	7.4	0.0092 mg/L	0.01306	0.0092 mg/L	0.01306	142.53%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-30.8	-0.0008 mg/L	0.01419	-0.0008 mg/L	0.01419	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-23.6	-0.0139 mg/L	0.00328	-0.0139 mg/L	0.00328	23.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-32.3	-0.0010 mg/L	0.00053	-0.0010 mg/L	0.00053	52.62%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-3.0	0.0158 mg/L	0.00143	0.0158 mg/L	0.00143	9.09%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-467.2	0.0013 mg/L	0.00165	0.0013 mg/L	0.00165	123.06%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	22.6	0.0020 mg/L	0.00061	0.0020 mg/L	0.00061	30.51%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	248.3	-0.0005 mg/L	0.00024	-0.0005 mg/L	0.00024	51.86%
QC Failed. Continue with analysis.						

NO CR, PB - HNN 041924

Batch ID: AVIO 500

Sequence No.: 6

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 12

Date Collected: 4/19/2024 3:22:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	186656.3	84.0 %	1.21	84.0 %	1.21	1.44%
Y axial	834931.7	89.4 %	1.93	89.4 %	1.93	2.16%
Ag 328.068†	6378.4	0.4074 mg/L	0.01327	0.4074 mg/L	0.01327	3.26%
QC value within limits for Ag 328.068 Recovery = 101.84%						
Al 396.153†	991402.2	262.2 mg/L	0.64	262.2 mg/L	0.64	0.24%
QC value within limits for Al 396.153 Recovery = 104.88%						
As 188.979†	80.6	0.1999 mg/L	0.01120	0.1999 mg/L	0.01120	5.60%
QC value within limits for As 188.979 Recovery = 99.97%						
B 208.889†	12.4	0.0023 mg/L	0.00187	0.0023 mg/L	0.00187	81.61%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	6592.2	1.002 mg/L	0.0748	1.002 mg/L	0.0748	7.47%
QC value within limits for Ba 233.527 Recovery = 100.19%						
Be 313.107†	675987.5	1.008 mg/L	0.0008	1.008 mg/L	0.0008	0.08%
QC value within limits for Be 313.107 Recovery = 100.79%						
Ca 317.933†	2103864.6	261.6 mg/L	0.42	261.6 mg/L	0.42	0.16%
QC value within limits for Ca 317.933 Recovery = 104.63%						
Cd 228.802†	18681.8	1.977 mg/L	0.0401	1.977 mg/L	0.0401	2.03%
QC value within limits for Cd 228.802 Recovery = 98.86%						
Co 228.616†	6456.3	0.8896 mg/L	0.03011	0.8896 mg/L	0.03011	3.39%
QC value within limits for Co 228.616 Recovery = 88.96%						
Cr 267.716†	16380.3	1.012 mg/L	0.0225	1.012 mg/L	0.0225	2.22%
QC value within limits for Cr 267.716 Recovery = 101.19%						
Cu 327.393†	27043.5	0.9700 mg/L	0.02312	0.9700 mg/L	0.02312	2.38%
QC value within limits for Cu 327.393 Recovery = 97.00%						
Fe 238.204†	503262.3	103.5 mg/L	0.18	103.5 mg/L	0.18	0.17%
QC value within limits for Fe 238.204 Recovery = 103.48%						
K 766.490†	5.7	0.0032 mg/L	0.03733	0.0032 mg/L	0.03733	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	2881564.6	250.1 mg/L	0.37	250.1 mg/L	0.37	0.15%
QC value within limits for Mg 285.213 Recovery = 100.02%						
Mn 257.610†	29395.5	0.9949 mg/L	0.03650	0.9949 mg/L	0.03650	3.67%
QC value within limits for Mn 257.610 Recovery = 99.49%						
Mo 202.031†	244.9	0.0422 mg/L	0.00204	0.0422 mg/L	0.00204	4.85%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	416.4	0.0604 mg/L	0.01805	0.0604 mg/L	0.01805	29.90%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	21463.7	1.885 mg/L	0.0483	1.885 mg/L	0.0483	2.56%
QC value within limits for Ni 231.604 Recovery = 94.27%						
Pb 220.353†	140.5	0.1102 mg/L	0.01082	0.1102 mg/L	0.01082	9.81%
QC value within limits for Pb 220.353 Recovery = 110.23%						
Sb 206.836†	871.7	0.9892 mg/L	0.04389	0.9892 mg/L	0.04389	4.44%
QC value within limits for Sb 206.836 Recovery = 82.43%						
Se 196.026†	204.0	0.5014 mg/L	0.01276	0.5014 mg/L	0.01276	2.54%
QC value within limits for Se 196.026 Recovery = 100.28%						
Sn 189.927†	-32.0	-0.0188 mg/L	0.00167	-0.0188 mg/L	0.00167	8.86%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-81.6	-0.0025 mg/L	0.00224	-0.0025 mg/L	0.00224	88.38%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	160.7	0.2160 mg/L	0.00399	0.2160 mg/L	0.00399	1.85%
QC value within limits for Tl 351.924 Recovery = 108.00%						
V 290.880†	27078.4	0.9971 mg/L	0.01925	0.9971 mg/L	0.01925	1.93%
QC value within limits for V 290.880 Recovery = 99.71%						
Zn 206.200†	23174.4	2.019 mg/L	0.0544	2.019 mg/L	0.0544	2.69%
QC value within limits for Zn 206.200 Recovery = 100.93%						
Zr 343.823†	245.3	-0.0006 mg/L	0.00027	-0.0006 mg/L	0.00027	41.79%

All analyte(s) passed QC.

User canceled analysis.

=====
Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/19/2024 3:28:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/19/2024 3:29:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 11

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 7

Date Collected: 4/19/2024 3:31:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	219444.6	98.8 %		1.33	98.8 %	1.33	1.34%
Y axial	932627.4	99.9 %		0.34	99.9 %	0.34	0.34%
Ag 328.068†	6.1	0.0004 mg/L		0.00036	0.0004 mg/L	0.00036	98.94%
Al 396.153†	199.2	0.0526 mg/L		0.01463	0.0526 mg/L	0.01463	27.81%
As 188.979†	2.6	0.0062 mg/L		0.00875	0.0062 mg/L	0.00875	140.63%
B 208.889†	-0.9	-0.0004 mg/L		0.00113	-0.0004 mg/L	0.00113	268.54%
Ba 233.527†	3.9	0.0006 mg/L		0.00101	0.0006 mg/L	0.00101	172.37%
Be 313.107†	-434.7	-0.0006 mg/L		0.00004	-0.0006 mg/L	0.00004	6.14%
Ca 317.933†	71.8	0.0089 mg/L		0.00333	0.0089 mg/L	0.00333	37.22%
Cd 228.802†	4.2	0.0003 mg/L		0.00078	0.0003 mg/L	0.00078	279.10%
Co 228.616†	9.0	0.0012 mg/L		0.00063	0.0012 mg/L	0.00063	50.90%
Cr 267.716†	13.2	0.0008 mg/L		0.00015	0.0008 mg/L	0.00015	17.99%
Cu 327.393†	81.6	0.0029 mg/L		0.00079	0.0029 mg/L	0.00079	27.13%
Fe 238.204†	21.2	0.0044 mg/L		0.00045	0.0044 mg/L	0.00045	10.31%
K 766.490†	155.9	0.0870 mg/L		0.01264	0.0870 mg/L	0.01264	14.53%
Mg 285.213†	40.8	0.0035 mg/L		0.00103	0.0035 mg/L	0.00103	29.06%
Mn 257.610†	15.8	0.0005 mg/L		0.00021	0.0005 mg/L	0.00021	39.62%
Mo 202.031†	10.0	0.0017 mg/L		0.00053	0.0017 mg/L	0.00053	30.39%
Na 589.592†	150.3	0.0218 mg/L		0.01198	0.0218 mg/L	0.01198	54.99%
Ni 231.604†	44.0	0.0038 mg/L		0.00111	0.0038 mg/L	0.00111	28.89%
Pb 220.353†	9.9	0.0062 mg/L		0.00186	0.0062 mg/L	0.00186	30.09%
Sb 206.836†	-1.3	-0.0015 mg/L		0.00953	-0.0015 mg/L	0.00953	656.49%
Se 196.026†	-2.0	-0.0042 mg/L		0.01054	-0.0042 mg/L	0.01054	248.85%
Sn 189.927†	-0.4	-0.0003 mg/L		0.00243	-0.0003 mg/L	0.00243	950.95%
Ti 337.279†	-1.9	-0.0001 mg/L		0.00022	-0.0001 mg/L	0.00022	367.42%
Tl 351.924†	10.1	0.0124 mg/L		0.00739	0.0124 mg/L	0.00739	59.72%
V 290.880†	-48.3	-0.0017 mg/L		0.00028	-0.0017 mg/L	0.00028	15.78%
Zn 206.200†	26.1	0.0023 mg/L		0.00063	0.0023 mg/L	0.00063	27.68%
Zr 343.823†	9.0	0.0001 mg/L		0.00016	0.0001 mg/L	0.00016	113.75%

Batch ID: AVIO 500

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 7

Date Collected: 4/19/2024 3:37:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	219213.1	98.7 %		0.41	98.7 %	0.41	0.42%
Y axial	961621.0	103 %		0.42	103 %	0.42	0.41%
Ag 328.068†	2.8	0.0002 mg/L		0.00013	0.0002 mg/L	0.00013	80.04%

Al 396.153†	208.7	0.0552 mg/L	0.01046	0.0552 mg/L	0.01046	18.94%
As 188.979†	2.7	0.0063 mg/L	0.00397	0.0063 mg/L	0.00397	63.44%
B 208.889†	-0.9	-0.0003 mg/L	0.00114	-0.0003 mg/L	0.00114	366.22%
Ba 233.527†	3.0	0.0005 mg/L	0.00068	0.0005 mg/L	0.00068	151.19%
Be 313.107†	-461.0	-0.0007 mg/L	0.00013	-0.0007 mg/L	0.00013	18.63%
Ca 317.933†	95.6	0.0119 mg/L	0.00210	0.0119 mg/L	0.00210	17.65%
Cd 228.802†	-3.0	-0.0005 mg/L	0.00020	-0.0005 mg/L	0.00020	40.91%
Co 228.616†	6.0	0.0008 mg/L	0.00057	0.0008 mg/L	0.00057	69.25%
Cr 267.716†	1.2	0.0001 mg/L	0.00059	0.0001 mg/L	0.00059	840.78%
Cu 327.393†	50.3	0.0018 mg/L	0.00071	0.0018 mg/L	0.00071	39.82%
Fe 238.204†	18.5	0.0038 mg/L	0.00061	0.0038 mg/L	0.00061	16.06%
K 766.490†	98.5	0.0550 mg/L	0.03548	0.0550 mg/L	0.03548	64.51%
Mg 285.213†	32.5	0.0028 mg/L	0.00030	0.0028 mg/L	0.00030	10.56%
Mn 257.610†	16.0	0.0005 mg/L	0.00024	0.0005 mg/L	0.00024	44.34%
Mo 202.031†	-2.8	-0.0005 mg/L	0.00057	-0.0005 mg/L	0.00057	116.20%
Na 589.592†	224.3	0.0325 mg/L	0.01023	0.0325 mg/L	0.01023	31.45%
Ni 231.604†	56.0	0.0049 mg/L	0.00048	0.0049 mg/L	0.00048	9.75%
Pb 220.353†	2.7	0.0017 mg/L	0.00294	0.0017 mg/L	0.00294	176.08%
Sb 206.836†	-3.2	-0.0037 mg/L	0.00134	-0.0037 mg/L	0.00134	36.09%
Se 196.026†	-2.7	-0.0057 mg/L	0.01176	-0.0057 mg/L	0.01176	208.02%
Sn 189.927†	0.6	0.0004 mg/L	0.00053	0.0004 mg/L	0.00053	148.86%
Ti 337.279†	48.5	0.0015 mg/L	0.00141	0.0015 mg/L	0.00141	93.49%
Tl 351.924†	7.5	0.0091 mg/L	0.00201	0.0091 mg/L	0.00201	21.93%
V 290.880†	-71.3	-0.0026 mg/L	0.00062	-0.0026 mg/L	0.00062	24.15%
Zn 206.200†	0.2	0.0000 mg/L	0.00026	0.0000 mg/L	0.00026	>999.9%
Zr 343.823†	-27.4	-0.0004 mg/L	0.00040	-0.0004 mg/L	0.00040	94.59%

Batch ID: AVIO 500

Sequence No.: 13

Sample ID: B371416-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 50

Date Collected: 4/19/2024 3:45:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B371416-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Std.Dev.	RSD
Y radial	218667.4	98.4	%	0.51	98.4	0.51	0.52%
Y axial	937288.3	100	%	1.01	100	1.01	1.01%
Ag 328.068†	0.7	0.0000 mg/L		0.00028	0.0000 mg/L	0.00028	800.61%
Al 396.153†	42.0	0.0111 mg/L		0.00866	0.0111 mg/L	0.00866	78.22%
As 188.979†	2.8	0.0066 mg/L		0.00407	0.0066 mg/L	0.00407	61.86%
B 208.889†	3.2	0.0012 mg/L		0.00057	0.0012 mg/L	0.00057	48.06%
Ba 233.527†	3.0	0.0005 mg/L		0.00025	0.0005 mg/L	0.00025	55.69%
Be 313.107†	-444.7	-0.0007 mg/L		0.00002	-0.0007 mg/L	0.00002	3.16%
Ca 317.933†	189.3	0.0235 mg/L		0.00299	0.0235 mg/L	0.00299	12.68%
Cd 228.802†	0.6	-0.0001 mg/L		0.00029	-0.0001 mg/L	0.00029	252.01%
Co 228.616†	10.2	0.0014 mg/L		0.00035	0.0014 mg/L	0.00035	24.78%
Cr 267.716†	10.6	0.0007 mg/L		0.00014	0.0007 mg/L	0.00014	22.16%
Cu 327.393†	57.5	0.0021 mg/L		0.00097	0.0021 mg/L	0.00097	47.48%
Fe 238.204†	-4.0	-0.0008 mg/L		0.00022	-0.0008 mg/L	0.00022	27.03%
K 766.490†	84.4	0.0471 mg/L		0.00857	0.0471 mg/L	0.00857	18.19%
Mg 285.213†	30.4	0.0026 mg/L		0.00063	0.0026 mg/L	0.00063	24.14%
Mn 257.610†	25.9	0.0009 mg/L		0.00018	0.0009 mg/L	0.00018	20.12%
Mo 202.031†	3.6	0.0006 mg/L		0.00070	0.0006 mg/L	0.00070	113.14%
Na 589.592†	238.5	0.0346 mg/L		0.01544	0.0346 mg/L	0.01544	44.66%
Ni 231.604†	7.9	0.0007 mg/L		0.00054	0.0007 mg/L	0.00054	77.93%
Pb 220.353†	19.4	0.0121 mg/L		0.00069	0.0121 mg/L	0.00069	5.69%
Sb 206.836†	0.8	0.0009 mg/L		0.00150	0.0009 mg/L	0.00150	161.95%
Se 196.026†	0.0	0.0001 mg/L		0.00485	0.0001 mg/L	0.00485	>999.9%
Sn 189.927†	4.7	0.0028 mg/L		0.00105	0.0028 mg/L	0.00105	37.68%
Ti 337.279†	18.8	0.0006 mg/L		0.00070	0.0006 mg/L	0.00070	120.40%
Tl 351.924†	4.1	0.0051 mg/L		0.00327	0.0051 mg/L	0.00327	64.59%
V 290.880†	-39.5	-0.0014 mg/L		0.00040	-0.0014 mg/L	0.00040	27.70%
Zn 206.200†	53.1	0.0046 mg/L		0.00052	0.0046 mg/L	0.00052	11.33%
Zr 343.823†	13.8	0.0002 mg/L		0.00022	0.0002 mg/L	0.00022	104.14%

Batch ID: AVIO 500

Sequence No.: 14

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

User canceled analysis.

Autosampler Location: 11

Date Collected: 4/19/2024 3:52:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Batch ID: AVIO 500

Sequence No.: 14

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 11

Date Collected: 4/19/2024 3:59:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	192975.3	86.9 %	0.83	86.9 %	0.83	0.96%
Y axial	855958.8	91.7 %	1.34	91.7 %	1.34	1.46%
Ag 328.068†	-125.6	0.0029 mg/L	0.00455	0.0029 mg/L	0.00455	157.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	971594.7	257.0 mg/L	1.68	257.0 mg/L	1.68	0.65%
QC value within limits for Al 396.153 Recovery = 102.78%						
As 188.979†	-6.8	-0.0038 mg/L	0.01007	-0.0038 mg/L	0.01007	265.62%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	6.4	-0.0001 mg/L	0.00124	-0.0001 mg/L	0.00124	>999.9%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	61.1	0.0093 mg/L	0.00088	0.0093 mg/L	0.00088	9.42%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-138.7	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	39.52%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	2075040.0	258.0 mg/L	2.41	258.0 mg/L	2.41	0.93%
QC value within limits for Ca 317.933 Recovery = 103.20%						
Cd 228.802†	-2.4	0.0002 mg/L	0.00042	0.0002 mg/L	0.00042	219.99%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-11.9	-0.0016 mg/L	0.00045	-0.0016 mg/L	0.00045	28.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	135.8	0.0110 mg/L	0.00011	0.0110 mg/L	0.00011	1.00%
QC value greater than the upper limit for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-101.1	0.0011 mg/L	0.00027	0.0011 mg/L	0.00027	25.26%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	495905.7	102.0 mg/L	0.47	102.0 mg/L	0.47	0.46%
QC value within limits for Fe 238.204 Recovery = 101.95%						
K 766.490†	60.7	0.0339 mg/L	0.01540	0.0339 mg/L	0.01540	45.44%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	2823675.2	245.0 mg/L	1.54	245.0 mg/L	1.54	0.63%
QC value within limits for Mg 285.213 Recovery = 98.01%						
Mn 257.610†	-125.9	-0.0015 mg/L	0.00045	-0.0015 mg/L	0.00045	29.97%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	257.7	0.0444 mg/L	0.00155	0.0444 mg/L	0.00155	3.49%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	394.1	0.0571 mg/L	0.00370	0.0571 mg/L	0.00370	6.47%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-98.9	-0.0035 mg/L	0.00045	-0.0035 mg/L	0.00045	12.93%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	8.5	0.0282 mg/L	0.00228	0.0282 mg/L	0.00228	8.08%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	3.3	0.0045 mg/L	0.01232	0.0045 mg/L	0.01232	274.89%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-26.5	0.0093 mg/L	0.00484	0.0093 mg/L	0.00484	52.09%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-26.0	-0.0153 mg/L	0.00146	-0.0153 mg/L	0.00146	9.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-40.3	-0.0013 mg/L	0.00066	-0.0013 mg/L	0.00066	52.91%

QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -3.0 0.0161 mg/L 0.00955 0.0161 mg/L 0.00955 59.24%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† -560.0 -0.0017 mg/L 0.00427 -0.0017 mg/L 0.00427 249.13%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 48.6 0.0042 mg/L 0.00109 0.0042 mg/L 0.00109 25.72%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 245.3 -0.0006 mg/L 0.00011 -0.0006 mg/L 0.00011 19.91%
 QC Failed. Continue with analysis.

Batch ID: AVIO 500

Sequence No.: 15

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 100

Autosampler Location: 12

Date Collected: 4/19/2024 4:06:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	196703.3	88.5 %		2.45	88.5 %	2.45	2.77%
Y axial	824512.5	88.3 %		1.08	88.3 %	1.08	1.22%
Ag 328.068†	7386.3	0.4690 mg/L		0.00190	0.4690 mg/L	0.00190	0.41%
QC value within limits for Ag 328.068				Recovery = 117.26%			
Al 396.153†	967768.0	256.0 mg/L		1.72	256.0 mg/L	1.72	0.67%
QC value within limits for Al 396.153				Recovery = 102.38%			
As 188.979†	81.8	0.2024 mg/L		0.01952	0.2024 mg/L	0.01952	9.65%
QC value within limits for As 188.979				Recovery = 101.20%			
B 208.889†	6.5	-0.0000 mg/L		0.00283	-0.0000 mg/L	0.00283	>999.9%
QC value within limits for B 208.889				Recovery = Not calculated			
Ba 233.527†	6698.6	1.018 mg/L		0.0312	1.018 mg/L	0.0312	3.06%
QC value within limits for Ba 233.527				Recovery = 101.80%			
Be 313.107†	663158.4	0.9887 mg/L		0.00404	0.9887 mg/L	0.00404	0.41%
QC value within limits for Be 313.107				Recovery = 98.87%			
Ca 317.933†	2070027.4	257.4 mg/L		0.62	257.4 mg/L	0.62	0.24%
QC value within limits for Ca 317.933				Recovery = 102.95%			
Cd 228.802†	18589.4	1.967 mg/L		0.0160	1.967 mg/L	0.0160	0.81%
QC value within limits for Cd 228.802				Recovery = 98.37%			
Co 228.616†	6839.1	0.9424 mg/L		0.01240	0.9424 mg/L	0.01240	1.32%
QC value within limits for Co 228.616				Recovery = 94.24%			
Cr 267.716†	16251.8	1.004 mg/L		0.0058	1.004 mg/L	0.0058	0.57%
QC value within limits for Cr 267.716				Recovery = 100.39%			
Cu 327.393†	26836.1	0.9625 mg/L		0.00391	0.9625 mg/L	0.00391	0.41%
QC value within limits for Cu 327.393				Recovery = 96.25%			
Fe 238.204†	494197.0	101.6 mg/L		0.30	101.6 mg/L	0.30	0.30%
QC value within limits for Fe 238.204				Recovery = 101.61%			
K 766.490†	39.0	0.0218 mg/L		0.02295	0.0218 mg/L	0.02295	105.38%
QC value within limits for K 766.490				Recovery = Not calculated			
Mg 285.213†	2813294.0	244.1 mg/L		1.52	244.1 mg/L	1.52	0.62%
QC value within limits for Mg 285.213				Recovery = 97.65%			
Mn 257.610†	28128.7	0.9521 mg/L		0.03930	0.9521 mg/L	0.03930	4.13%
QC value within limits for Mn 257.610				Recovery = 95.21%			
Mo 202.031†	252.6	0.0435 mg/L		0.00166	0.0435 mg/L	0.00166	3.81%
QC value within limits for Mo 202.031				Recovery = Not calculated			
Na 589.592†	313.6	0.0455 mg/L		0.01749	0.0455 mg/L	0.01749	38.48%
QC value within limits for Na 589.592				Recovery = Not calculated			
Ni 231.604†	21153.2	1.858 mg/L		0.0085	1.858 mg/L	0.0085	0.46%
QC value within limits for Ni 231.604				Recovery = 92.90%			
Pb 220.353†	161.2	0.1226 mg/L		0.00491	0.1226 mg/L	0.00491	4.00%
QC value greater than the upper limit for Pb 220.353				Recovery = 122.61%			
Sb 206.836†	924.8	1.050 mg/L		0.0087	1.050 mg/L	0.0087	0.83%
QC value within limits for Sb 206.836				Recovery = 87.54%			
Se 196.026†	215.1	0.5238 mg/L		0.01383	0.5238 mg/L	0.01383	2.64%
QC value within limits for Se 196.026				Recovery = 104.76%			
Sn 189.927†	-25.7	-0.0151 mg/L		0.00135	-0.0151 mg/L	0.00135	8.89%
QC value within limits for Sn 189.927				Recovery = Not calculated			
Ti 337.279†	-11.2	-0.0004 mg/L		0.00191	-0.0004 mg/L	0.00191	544.51%

QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 166.0 0.2221 mg/L 0.00747 0.2221 mg/L 0.00747 3.36%
 QC value within limits for Tl 351.924 Recovery = 111.06%
 V 290.880† 26868.6 0.9890 mg/L 0.00637 0.9890 mg/L 0.00637 0.64%
 QC value within limits for V 290.880 Recovery = 98.90%
 Zn 206.200† 22795.9 1.986 mg/L 0.0152 1.986 mg/L 0.0152 0.76%
 QC value within limits for Zn 206.200 Recovery = 99.28%
 Zr 343.823† 249.6 -0.0005 mg/L 0.00005 -0.0005 mg/L 0.00005 10.57%
 QC Failed. Continue with analysis.

Batch ID: AVIO 500

Sequence No.: 16

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 5

Date Collected: 4/19/2024 4:13:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	229573.8	103 %	1.19	103 %	1.19	1.15%
Y axial	954955.8	102 %	0.73	102 %	0.73	0.72%
Ag 328.068†	39438.8	2.415 mg/L	0.0269	2.415 mg/L	0.0269	1.11%
QC value within limits for Ag 328.068			Recovery = 96.62%			
Al 396.153†	38008.5	9.680 mg/L	0.0532	9.680 mg/L	0.0532	0.55%
QC value within limits for Al 396.153			Recovery = 96.80%			
As 188.979†	2241.2	5.233 mg/L	0.0593	5.233 mg/L	0.0593	1.13%
QC value within limits for As 188.979			Recovery = 104.66%			
B 208.889†	13139.2	4.681 mg/L	0.0636	4.681 mg/L	0.0636	1.36%
QC value within limits for B 208.889			Recovery = 93.62%			
Ba 233.527†	35422.3	5.383 mg/L	0.0282	5.383 mg/L	0.0282	0.52%
QC value within limits for Ba 233.527			Recovery = 107.67%			
Be 313.107†	3351293.6	4.997 mg/L	0.0877	4.997 mg/L	0.0877	1.75%
QC value within limits for Be 313.107			Recovery = 99.93%			
Ca 317.933†	85945.7	10.69 mg/L	0.062	10.69 mg/L	0.062	0.58%
QC value within limits for Ca 317.933			Recovery = 106.86%			
Cd 228.802†	47461.0	4.901 mg/L	0.0223	4.901 mg/L	0.0223	0.46%
QC value within limits for Cd 228.802			Recovery = 98.01%			
Co 228.616†	37556.7	5.169 mg/L	0.0358	5.169 mg/L	0.0358	0.69%
QC value within limits for Co 228.616			Recovery = 103.38%			
Cr 267.716†	84946.4	5.235 mg/L	0.0322	5.235 mg/L	0.0322	0.61%
QC value within limits for Cr 267.716			Recovery = 104.70%			
Cu 327.393†	136130.5	4.888 mg/L	0.0301	4.888 mg/L	0.0301	0.62%
QC value within limits for Cu 327.393			Recovery = 97.76%			
Fe 238.204†	25715.6	5.350 mg/L	0.0255	5.350 mg/L	0.0255	0.48%
QC value within limits for Fe 238.204			Recovery = 106.99%			
K 766.490†	17009.2	9.497 mg/L	0.0894	9.497 mg/L	0.0894	0.94%
QC value within limits for K 766.490			Recovery = 94.97%			
Mg 285.213†	116890.8	10.13 mg/L	0.057	10.13 mg/L	0.057	0.57%
QC value within limits for Mg 285.213			Recovery = 101.29%			
Mn 257.610†	151573.8	5.116 mg/L	0.0232	5.116 mg/L	0.0232	0.45%
QC value within limits for Mn 257.610			Recovery = 102.32%			
Mo 202.031†	30314.9	5.220 mg/L	0.0318	5.220 mg/L	0.0318	0.61%
QC value within limits for Mo 202.031			Recovery = 104.40%			
Na 589.592†	69227.0	10.03 mg/L	0.071	10.03 mg/L	0.071	0.71%
QC value within limits for Na 589.592			Recovery = 100.34%			
Ni 231.604†	60922.8	5.334 mg/L	0.0335	5.334 mg/L	0.0335	0.63%
QC value within limits for Ni 231.604			Recovery = 106.68%			
Pb 220.353†	8484.9	5.313 mg/L	0.0695	5.313 mg/L	0.0695	1.31%
QC value within limits for Pb 220.353			Recovery = 106.25%			
Sb 206.836†	4440.0	5.131 mg/L	0.0631	5.131 mg/L	0.0631	1.23%
QC value within limits for Sb 206.836			Recovery = 102.61%			
Se 196.026†	2458.3	5.244 mg/L	0.0760	5.244 mg/L	0.0760	1.45%
QC value within limits for Se 196.026			Recovery = 104.89%			
Sn 189.927†	9134.9	5.385 mg/L	0.0718	5.385 mg/L	0.0718	1.33%
QC value within limits for Sn 189.927			Recovery = 107.70%			
Ti 337.279†	159394.4	4.943 mg/L	0.0242	4.943 mg/L	0.0242	0.49%

QC value within limits for Ti 337.279 Recovery = 98.86%
 Tl 351.924† 2025.0 2.551 mg/L 0.0210 2.551 mg/L 0.0210 0.82%
 QC value within limits for Tl 351.924 Recovery = 102.05%
 V 290.880† 141007.9 5.095 mg/L 0.0291 5.095 mg/L 0.0291 0.57%
 QC value within limits for V 290.880 Recovery = 101.90%
 Zn 206.200† 64943.9 5.667 mg/L 0.0428 5.667 mg/L 0.0428 0.75%
 QC value greater than the upper limit for Zn 206.200 Recovery = 113.35%
 Zr 343.823† 324664.5 5.016 mg/L 0.0330 5.016 mg/L 0.0330 0.66%
 QC value within limits for Zr 343.823 Recovery = 100.32%
 QC Failed. Continue with analysis.

Batch ID: AVIO 500

Sequence No.: 17

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 200

Autosampler Location: 1

Date Collected: 4/19/2024 4:20:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	239927.1	108 %	0.18	108 %	0.18	0.17%
Y axial	1020664.4	109 %	1.52	109 %	1.52	1.39%
Ag 328.068†	14.1	0.0009 mg/L	0.00061	0.0009 mg/L	0.00061	71.22%
QC value within limits for Ag 328.068			Recovery =	Not calculated		
Al 396.153†	51.6	0.0136 mg/L	0.00976	0.0136 mg/L	0.00976	71.73%
QC value within limits for Al 396.153			Recovery =	Not calculated		
As 188.979†	0.2	0.0004 mg/L	0.00477	0.0004 mg/L	0.00477	>999.9%
QC value within limits for As 188.979			Recovery =	Not calculated		
B 208.889†	9.5	0.0036 mg/L	0.00221	0.0036 mg/L	0.00221	61.97%
QC value within limits for B 208.889			Recovery =	Not calculated		
Ba 233.527†	-3.0	-0.0005 mg/L	0.00036	-0.0005 mg/L	0.00036	78.13%
QC value within limits for Ba 233.527			Recovery =	Not calculated		
Be 313.107†	-655.9	-0.0010 mg/L	0.00002	-0.0010 mg/L	0.00002	2.33%
QC value within limits for Be 313.107			Recovery =	Not calculated		
Ca 317.933†	27.3	0.0034 mg/L	0.00144	0.0034 mg/L	0.00144	42.33%
QC value within limits for Ca 317.933			Recovery =	Not calculated		
Cd 228.802†	-2.9	-0.0003 mg/L	0.00100	-0.0003 mg/L	0.00100	317.60%
QC value within limits for Cd 228.802			Recovery =	Not calculated		
Co 228.616†	11.6	0.0016 mg/L	0.00061	0.0016 mg/L	0.00061	37.97%
QC value within limits for Co 228.616			Recovery =	Not calculated		
Cr 267.716†	-2.8	-0.0002 mg/L	0.00048	-0.0002 mg/L	0.00048	274.79%
QC value within limits for Cr 267.716			Recovery =	Not calculated		
Cu 327.393†	24.9	0.0009 mg/L	0.00149	0.0009 mg/L	0.00149	167.50%
QC value within limits for Cu 327.393			Recovery =	Not calculated		
Fe 238.204†	-9.8	-0.0020 mg/L	0.00079	-0.0020 mg/L	0.00079	39.57%
QC value within limits for Fe 238.204			Recovery =	Not calculated		
K 766.490†	224.1	0.1251 mg/L	0.00301	0.1251 mg/L	0.00301	2.40%
QC value within limits for K 766.490			Recovery =	Not calculated		
Mg 285.213†	28.2	0.0024 mg/L	0.00062	0.0024 mg/L	0.00062	25.31%
QC value within limits for Mg 285.213			Recovery =	Not calculated		
Mn 257.610†	11.9	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	29.84%
QC value within limits for Mn 257.610			Recovery =	Not calculated		
Mo 202.031†	3.4	0.0006 mg/L	0.00042	0.0006 mg/L	0.00042	71.47%
QC value within limits for Mo 202.031			Recovery =	Not calculated		
Na 589.592†	251.9	0.0365 mg/L	0.00224	0.0365 mg/L	0.00224	6.13%
QC value within limits for Na 589.592			Recovery =	Not calculated		
Ni 231.604†	32.0	0.0028 mg/L	0.00034	0.0028 mg/L	0.00034	12.21%
QC value within limits for Ni 231.604			Recovery =	Not calculated		
Pb 220.353†	2.6	0.0016 mg/L	0.00166	0.0016 mg/L	0.00166	102.20%
QC value within limits for Pb 220.353			Recovery =	Not calculated		
Sb 206.836†	-7.1	-0.0082 mg/L	0.00460	-0.0082 mg/L	0.00460	56.36%
QC value within limits for Sb 206.836			Recovery =	Not calculated		
Se 196.026†	-4.4	-0.0094 mg/L	0.00544	-0.0094 mg/L	0.00544	57.77%
QC value within limits for Se 196.026			Recovery =	Not calculated		
Sn 189.927†	1.9	0.0011 mg/L	0.00219	0.0011 mg/L	0.00219	191.41%
QC value within limits for Sn 189.927			Recovery =	Not calculated		

Ti 337.279†	34.1	0.0011 mg/L	0.00063	0.0011 mg/L	0.00063	59.33%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	4.9	0.0060 mg/L	0.01373	0.0060 mg/L	0.01373	229.48%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-75.3	-0.0027 mg/L	0.00034	-0.0027 mg/L	0.00034	12.46%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-19.6	-0.0017 mg/L	0.00053	-0.0017 mg/L	0.00053	31.18%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-2.7	-0.0000 mg/L	0.00063	-0.0000 mg/L	0.00063	>999.9%

All analyte(s) passed QC.
User canceled analysis.

MERCURY

517

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-03
Sampled:	04/02/24 09:10		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:04	SW-846 7470A

518

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-04
Sampled:	04/02/24 09:24		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:07	SW-846 7470A

519

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-05
Sampled:	04/02/24 11:46		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:09	SW-846 7470A

520

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-06
Sampled:	04/02/24 12:38		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:12	SW-846 7470A

521

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-07
Sampled:	04/02/24 14:25		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:14	SW-846 7470A

522

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-08
Sampled:	04/02/24 14:42		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:24	SW-846 7470A

523

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-09
Sampled:	04/02/24 15:47		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:26	SW-846 7470A

524

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-10
Sampled:	04/02/24 16:30		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:29	SW-846 7470A

525

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-11
Sampled:	04/03/24 08:19		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:31	SW-846 7470A

526

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-12
Sampled:	04/03/24 09:36		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:34	SW-846 7470A

527

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-13
Sampled:	04/03/24 09:40		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:36	SW-846 7470A

528

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-14
Sampled:	04/03/24 10:34		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:39	SW-846 7470A

529

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-15
Sampled:	04/03/24 11:35		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:41	SW-846 7470A

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-1-04032024

530

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-16

Sampled: 04/03/24 12:45

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:44	SW-846 7470A

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-FD-04022024

531

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-17

Sampled: 04/02/24 00:00

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury		0.00012	0.00020	1		B371480	04/16/24 10:46	SW-846 7470A

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 7470A

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	HG3	Calibration:	UNASSIGNED
		Sequence:	S103237

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103237-ICV1	Mercury	4.00	4.23	106	µg/L	+/- 20.00%
S103237-CCV1	Mercury	5.00	5.20	104	µg/L	+/- 20.00%
S103237-CCV2	Mercury	5.00	5.24	105	µg/L	+/- 20.00%
S103237-CCV3	Mercury	5.00	5.26	105	µg/L	+/- 20.00%
S103237-CCV4	Mercury	5.00	5.29	106	µg/L	+/- 20.00%
S103237-CCV5	Mercury	5.00	5.28	106	µg/L	+/- 20.00%

FORM 3 - Blank Summary

533

SW-846 7470A

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Instrument ID: HG3

Calibration: UNASSIGNED

Sequence: S103237

Lab Sample ID	Analyte	Found	Units	RL	C
S103237-ICB1	Mercury		µg/L	0.20	U
B371480-BLK1	Mercury		mg/L	0.00020	U
S103237-CCB1	Mercury		µg/L	0.20	U
S103237-CCB2	Mercury		µg/L	0.20	U
S103237-CCB3	Mercury		µg/L	0.20	U
S103237-CCB4	Mercury		µg/L	0.20	U

152033-SM-MW-22A-04022024

Laboratory: Pace New England

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Batch: B371480

% Solids:

Column:

Work Order: 24D0735

Project: DW_Dzus Fastener Co. Inc.

Analysis: SW-846 7470A

Preparation: SW-846 7470A Prep

Laboratory ID: B371480-MS1

Sample Lab ID: 24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Mercury	0.00402	ND	0.00418	104	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Mercury	0.00402	0.00408	102	2.42	20	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW-846 7470A

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 7470A Prep
Batch:	B371480	Laboratory ID:	B371480-BS1
Column:		Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Mercury	0.00402	0.00423	105	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Mercury	0.00402	0.00424	105	0.225	20	80 - 120

PREPARATION BATCH SUMMARY

536

SW-846 7470A

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Batch: B371480 Batch Matrix: Water Preparation: SW-846 7470A Prep

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-MW-22B-04022024	24D0735-03	04/15/24 11:19	10.00	10.00
152033-SM-MW-22A-04022024	24D0735-04	04/15/24 11:19	10.00	10.00
152033-SM-MW-13B-04022024	24D0735-05	04/15/24 11:19	10.00	10.00
152033-SM-MW-13A-04022024	24D0735-06	04/15/24 11:19	10.00	10.00
152033-SM-MW-9B-04022024	24D0735-07	04/15/24 11:19	10.00	10.00
152033-SM-MW-9-04022024	24D0735-08	04/15/24 11:19	10.00	10.00
152033-SM-MW-23A-04022024	24D0735-09	04/15/24 11:19	10.00	10.00
152033-SM-MW-23B-04022024	24D0735-10	04/15/24 11:19	10.00	10.00
152033-SM-MW-17-04032024	24D0735-11	04/15/24 11:19	10.00	10.00
152033-SM-MW-15B-04032024	24D0735-12	04/15/24 11:19	10.00	10.00
152033-SM-MW-15A-04032024	24D0735-13	04/15/24 11:19	10.00	10.00
152033-SM-MW-18-04032024	24D0735-14	04/15/24 11:19	10.00	10.00
152033-SM-MW-2-04032024	24D0735-15	04/15/24 11:19	10.00	10.00
152033-SM-MW-1-04032024	24D0735-16	04/15/24 11:19	10.00	10.00
152033-SM-MW-FD-04022024	24D0735-17	04/15/24 11:19	10.00	10.00
Blank	B371480-BLK1	04/15/24 11:19	10.00	10.00
LCS	B371480-BS1	04/15/24 11:19	10.00	10.00
LCS Dup	B371480-BSD1	04/15/24 11:19	10.00	10.00
152033-SM-MW-22A-04022024	B371480-MS1	04/15/24 11:19	10.00	10.00
152033-SM-MW-22A-04022024	B371480-MSD1	04/15/24 11:19	10.00	10.00

S103237

Instrument: HG3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103237-ICV1	QC		1		24D0429		
S103237-CCV1	QC		2		24D0428		
S103237-ICB1	QC		3		24D0430		
B371480-BLK1	QC		4				
B371480-BS1	QC		5				
B371480-BSD1	QC		6				
B371480-MS1	QC		7				
B371480-MSD1	QC		8				
24D0735-03	Mercury 7470/7471 Total	A	9				CAT B - Report to MDL
24D0735-04	Mercury 7470/7471 Total	A	10				CAT B - Report to MDL
24D0735-05	Mercury 7470/7471 Total	A	11				CAT B - Report to MDL
24D0735-06	Mercury 7470/7471 Total	A	12				CAT B - Report to MDL
24D0735-07	Mercury 7470/7471 Total	B	13				CAT B - Report to MDL
S103237-CCV2	QC		14		24D0428		
S103237-CCB1	QC		15		24D0430		
24D0735-08	Mercury 7470/7471 Total	A	16				CAT B - Report to MDL
24D0735-09	Mercury 7470/7471 Total	A	17				CAT B - Report to MDL
24D0735-10	Mercury 7470/7471 Total	A	18				CAT B - Report to MDL
24D0735-11	Mercury 7470/7471 Total	B	19				CAT B - Report to MDL
24D0735-12	Mercury 7470/7471 Total	B	20				CAT B - Report to MDL
24D0735-13	Mercury 7470/7471 Total	B	21				CAT B - Report to MDL
24D0735-14	Mercury 7470/7471 Total	B	22				CAT B - Report to MDL
24D0735-15	Mercury 7470/7471 Total	A	23				CAT B - Report to MDL
24D0735-16	Mercury 7470/7471 Total	B	24				CAT B - Report to MDL
24D0735-17	Mercury 7470/7471 Total	A	25				CAT B - Report to MDL
S103237-CCV3	QC		26		24D0428		
S103237-CCB2	QC		27		24D0430		
24D0932-01	Mercury 7470/7471 Total	F	28				CAT B REPORT TO MDL
24D0932-02	Mercury 7470/7471 Total	F	29				CAT B REPORT TO MDL
24D0932-03	Mercury 7470/7471 Total	F	30				CAT B REPORT TO MDL
24D0932-04	Mercury 7470/7471 Total	F	31				CAT B REPORT TO MDL
24D0932-05	Mercury 7470/7471 Total	F	32				CAT B REPORT TO MDL
B371482-BLK1	QC		33				

Samples Loaded By

Date

Data Processed By

Date

S103237

Instrument: HG3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
B371481-BLK1	QC		34				
B371482-BS1	QC		35				
B371481-BS1	QC		36				
B371482-BSD1	QC		37				
B371481-BSD1	QC		38				
B371482-MS1	QC		39				
B371482-DUP1	QC		40				
S103237-CCV4	QC		41		24D0428		
S103237-CCB3	QC		42		24D0430		
24D1296-01	Mercury 245.1 Total	F	43				ARRIVED pH<2 AMV 4/15/24
24D1296-02	Mercury 245.1 Total	F	44				ARRIVED pH<2 AMV 4/15/24
24D1483-01	Mercury 245.1 Total	C	45				ARRIVED pH<2 AMV 4/15/24
24D0596-05	Mercury 7470/7471 Total	G	46				
S103237-CCV5	QC		47		24D0428		
S103237-CCB4	QC		48		24D0430		

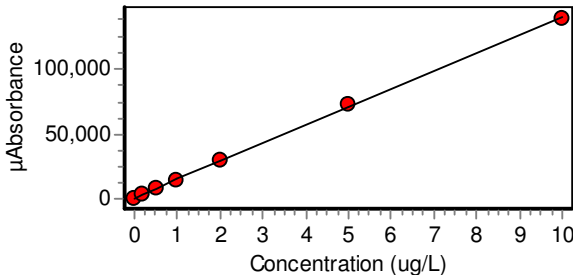
Samples Loaded By

Date

Data Processed By

Date

Results

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank		STD	04/16/24 09:12:11 am	0.0000	619	1.91			1.0000	N/A
Replicates	633.0	621.9	604.4	617.4						
Standard #1 (0.2 ppb)		STD	04/16/24 09:14:43 am	0.2000	3374	1.27	-25.49%		1.0000	N/A
Replicates	3324.8	3351.7	3409.0	3410.7						
Standard #2 (0.5 ppb)		STD	04/16/24 09:17:15 am	0.5000	8109	1.04	-1.44%		1.0000	N/A
Replicates	8003.5	8084.2	8154.0	8195.0						
Standard #3 (1 ppb)		STD	04/16/24 09:19:48 am	1.0000	14893	1.22	-1.46%		1.0000	N/A
Replicates	14662.3	14840.3	14991.6	15077.1						
Standard #4 (2 ppb)		STD	04/16/24 09:22:21 am	2.0000	29287	1.07	1.53%		1.0000	N/A
Replicates	28882.4	29217.1	29440.4	29609.6						
Standard #5 (5 ppb)		STD	04/16/24 09:24:54 am	5.0000	72844	1.16	3.86%		1.0000	N/A
Replicates	71753.6	72645.9	73293.4	73684.4						
Standard #6 (10 ppb)		STD	04/16/24 09:29:32 am	10.0000	137673	1.09	-1.00%		1.0000	N/A
Replicates	135770.0	137264.1	138422.3	139236.6						
Calibration										
Equation:	Abs = 13772.618x + 1321.749									
R2:	0.99933	RSE:	12.96%							
SEE:	1426.6410									
Flags:										
										
SEQ-ICV		ICV	04/16/24 09:34:25 am	4.2274	59544	1.22			1.0000	105.69
Replicates	58642.0	59352.3	59929.0	60254.5						
SEQ-CCV@INITIAL		CCV	04/16/24 09:38:38 am	5.1987	72922	1.28			1.0000	103.97
Replicates	71742.4	72700.8	73388.3	73857.0						
SEQ-ICB		ICB	04/16/24 09:42:49 am	-0.0505	626	4.07			1.0000	N/A
Replicates	600.9	603.3	658.3	640.6						
B371480-BLK1		UNK	04/16/24 09:45:21 am	-0.0841	163	1.05			1.0000	N/A
Replicates	174.2	155.6	173.6	150.6						
B371480-BS1		UNK	04/16/24 09:47:52 am	4.2260	59525	1.15			1.0000	N/A
Replicates	58682.8	59341.8	59849.8	60224.3						
B371480-BSD1		UNK	04/16/24 09:52:05 am	4.2355	59656	1.14			1.0000	N/A
Replicates	58805.2	59494.2	59979.9	60344.7						

4/16/2024 1:31:52 PM

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Page 1 of 5

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	DF	% Recovery
B371480-MS1	UNK	04/16/24 09:56:07 am	4.1842	58950	1.17			1.0000	N/A
Replicates	58098.2	58767.0 59292.3 59641.0							
B371480-MSD1	UNK	04/16/24 10:00:09 am	4.0840	57570	1.24			1.0000	N/A
Replicates	56686.2	57380.4 57910.1 58302.1							
24D0735-03	UNK	04/16/24 10:04:40 am	-0.0826	184	1.03			1.0000	N/A
Replicates	200.9	182.4 175.2 177.2							
24D0735-04	UNK	04/16/24 10:07:12 am	-0.0847	155	1.01			1.0000	N/A
Replicates	169.0	141.0 159.0 152.7							
24D0735-05	UNK	04/16/24 10:09:45 am	-0.0854	146	0.12			1.0000	N/A
Replicates	143.9	146.5 145.0 147.0							
24D0735-06	UNK	04/16/24 10:12:17 am	-0.0754	283	2.00			1.0000	N/A
Replicates	279.2	303.2 256.2 295.4							
24D0735-07	UNK	04/16/24 10:14:50 am	-0.0845	158	1.36			1.0000	N/A
Replicates	164.0	177.3 142.6 147.6							
SEQ-CCV	CCV	04/16/24 10:17:23 am	5.2354	73427	1.29			1.0000	104.71
Replicates	72239.5	73196.5 73899.8 74372.3							
SEQ-CCB	CCB	04/16/24 10:21:36 am	-0.0521	604	3.47			1.0000	N/A
Replicates	625.3	625.3 576.1 591.1							
24D0735-08	UNK	04/16/24 10:24:09 am	-0.0801	218	1.73			1.0000	N/A
Replicates	200.3	203.1 237.4 231.4							
24D0735-09	UNK	04/16/24 10:26:42 am	-0.0836	170	1.28			1.0000	N/A
Replicates	192.1	165.7 164.4 159.4							
24D0735-10	UNK	04/16/24 10:29:13 am	-0.0663	409	1.90			1.0000	N/A
Replicates	403.3	419.4 386.9 425.6							
24D0735-11	UNK	04/16/24 10:31:44 am	-0.0789	235	1.32			1.0000	N/A
Replicates	226.4	256.3 226.8 230.3							
24D0735-12	UNK	04/16/24 10:34:16 am	-0.0849	153	0.40			1.0000	N/A
Replicates	154.6	156.6 153.1 145.9							
24D0735-13	UNK	04/16/24 10:36:48 am	-0.0843	160	1.32			1.0000	N/A
Replicates	144.5	165.8 178.8 151.1							
24D0735-14	UNK	04/16/24 10:39:20 am	-0.0830	179	1.41			1.0000	N/A
Replicates	189.1	196.0 162.0 169.2							
24D0735-15	UNK	04/16/24 10:41:52 am	-0.0844	159	0.62			1.0000	N/A
Replicates	152.0	159.8 155.6 168.6							
24D0735-16	UNK	04/16/24 10:44:24 am	-0.0818	195	1.29			1.0000	N/A
Replicates	181.3	189.8 215.3 192.1							
24D0735-17	UNK	04/16/24 10:46:56 am	-0.0762	272	0.58			1.0000	N/A
Replicates	276.0	273.4 276.4 263.4							

APPROVED
By AMV at 1:55 pm, 4/16/24

APPROVED
By AMV at 1:55 pm, 4/16/24

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	DF	% Recovery
SEQ-CCV	CCV	04/16/24 10:49:29 am	5.2590	73752	1.23		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	105.18
Replicates		72621.1 73503.6 74212.4 74671.4							
SEQ-CCB	CCB	04/16/24 10:53:37 am	-0.0500	633	2.55		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	N/A
Replicates		651.6 638.4 609.6 630.9							
24D0932-01	UNK	04/16/24 10:56:09 am	-0.0846	156	0.93			1.0000	N/A
Replicates		151.2 163.3 167.5 144.0							
24D0932-02	UNK	04/16/24 10:58:42 am	-0.0832	176	1.41			1.0000	N/A
Replicates		185.1 151.8 186.3 179.3							
24D0932-03	UNK	04/16/24 11:01:15 am	-0.0848	154	0.58			1.0000	N/A
Replicates		159.1 145.1 152.6 159.6							
24D0932-04	UNK	04/16/24 11:03:48 am	-0.0851	150	0.66			1.0000	N/A
Replicates		143.1 152.0 160.2 145.0							
24D0932-05	UNK	04/16/24 11:06:19 am	-0.0831	177	1.09			1.0000	N/A
Replicates		173.9 163.5 176.0 193.5							
B371482-BLK1	UNK	04/16/24 11:08:50 am	-0.0840	165	1.33			1.0000	N/A
Replicates		165.5 154.1 154.3 186.8							
B371482-BS1	UNK	04/16/24 11:11:22 am	4.2131	59347	1.20			1.0000	N/A
Replicates		58481.9 59150.9 59660.6 60095.1							
B371482-BSD1	UNK	04/16/24 11:15:40 am	4.3091	60669	1.17			1.0000	N/A
Replicates		59793.5 60480.2 60991.5 61410.0							
B371482-MS1	UNK	04/16/24 11:19:36 am	4.0823	57545	1.16			1.0000	N/A
Replicates		56723.2 57369.2 57858.9 58228.9							
B371482-DUP1	UNK	04/16/24 11:23:48 am	-0.0868	126	0.90			1.0000	N/A
Replicates		140.8 116.3 120.6 127.6							
SEQ-CCV	CCV	04/16/24 11:26:21 am	5.2896	74174	1.23		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	105.79
Replicates		73035.1 73942.7 74629.0 75089.0							
SEQ-CCB	CCB	04/16/24 11:30:38 am	-0.0498	637	1.81		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	N/A
Replicates		624.7 648.0 627.0 646.5							
24D1296-01	UNK	04/16/24 11:33:11 am	-0.0546	570	1.16			1.0000	N/A
Replicates		569.4 562.3 564.6 581.8							
24D1296-02	UNK	04/16/24 11:35:43 am	-0.0799	221	1.18			1.0000	N/A
Replicates		225.6 206.7 236.7 214.9							
24D1483-01	UNK	04/16/24 11:38:16 am	-0.0829	180	1.08			1.0000	N/A
Replicates		168.2 197.1 174.8 178.6							
~~24D0595-05~~	UNK	04/16/24 11:40:48 am	-0.0331	866	1.26			1.0000	N/A
Replicates		857.9 871.1 867.6 868.1							
B371483-BLK1	UNK	04/16/24 11:43:21 am	-0.0837	168	1.30			1.0000	N/A
Replicates		189.9 160.0 167.0 156.7							

TYPO - 24D0596-05 AMV 4/16/24

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
B371483-BS1@5X	UNK	04/16/24 11:45:54 am	2.6266	37497	1.26			1.0000	N/A
Replicates		36921.8 37365.5 37727.8 37971.0							
B371483-BSD1@5X	UNK	04/16/24 11:48:26 am	2.0613	29711	1.17			1.0000	N/A
Replicates		29297.8 29612.3 29872.6 30061.1							
B371483-MS1	UNK	04/16/24 11:50:57 am	4.4787	63005	1.23			1.0000	N/A
Replicates		62064.0 62768.9 63362.2 63824.4							
B371483-MSD1	UNK	04/16/24 11:55:24 am	4.4370	62431	1.22			1.0000	N/A
Replicates		61499.9 62207.0 62789.3 63227.5							
24D0107-02	UNK	04/16/24 11:59:43 am	-0.0815	200	0.24			1.0000	N/A
Replicates		202.7 200.8 198.8 196.3							
SEQ-CCV	CCV	04/16/24 12:02:16 pm	5.2848	74107	1.31		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	105.70
Replicates		72905.8 73833.4 74604.9 75085.6							
SEQ-CCB	CCB	04/16/24 12:06:27 pm	-0.0497	637	1.36		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	N/A
Replicates		644.8 634.3 644.5 625.3							
24D0107-04	UNK	04/16/24 12:08:59 pm	-0.0775	255	1.67			1.0000	N/A
Replicates		276.2 256.7 232.7 254.2							
24D0348-02	UNK	04/16/24 12:11:32 pm	-0.0608	484	1.03			1.0000	N/A
Replicates		480.9 496.9 479.4 478.9							
24D0348-04	UNK	04/16/24 12:14:04 pm	-0.0659	414	2.27			1.0000	N/A
Replicates		384.0 430.1 417.9 424.1							
24D0348-06	UNK	04/16/24 12:16:36 pm	-0.0805	213	0.76			1.0000	N/A
Replicates		208.8 214.4 223.9 204.4							
24D0348-08	UNK	04/16/24 12:19:08 pm	-0.0651	426	1.51			1.0000	N/A
Replicates		412.8 416.1 440.8 433.3							
24D0348-10	UNK	04/16/24 12:21:41 pm	-0.0785	241	1.53			1.0000	N/A
Replicates		234.4 232.7 265.2 230.0							
24D0348-12	UNK	04/16/24 12:24:14 pm	-0.0692	368	0.93			1.0000	N/A
Replicates		368.3 360.0 364.7 380.7							
24D0348-13	UNK	04/16/24 12:26:47 pm	-0.0696	363	0.59			1.0000	N/A
Replicates		354.5 363.7 366.0 366.7							
24D0348-15	UNK	04/16/24 12:29:19 pm	-0.0795	227	0.53			1.0000	N/A
Replicates		223.9 225.3 224.0 236.0							
24D0596-01	UNK	04/16/24 12:31:51 pm	0.0460	1955	2.60			1.0000	N/A
Replicates		1935.2 1949.8 1961.5 1973.8							
SEQ-CCV	CCV	04/16/24 12:34:24 pm	5.2469	73586	1.33		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	104.94
Replicates		72384.3 73308.3 74049.8 74601.3							
SEQ-CCB	CCB	04/16/24 12:38:24 pm	-0.0514	613	1.03		APPROVED By AMV at 1:55 pm, 4/16/24	1.0000	N/A
Replicates		610.2 604.7 618.2 620.4							

Sample Name		Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	DF	% Recovery
24D0596-02		UNK	04/16/24 12:40:56 pm	-0.0406	763	2.89			1.0000	N/A
Replicates	746.9	774.4	751.4	779.1						
24D0596-03		UNK	04/16/24 12:43:28 pm	-0.0389	786	3.54			1.0000	N/A
Replicates	765.7	792.2	809.2	776.2						
24D0596-04		UNK	04/16/24 12:46:00 pm	0.1196	2969	2.51			1.0000	N/A
Replicates	2910.1	2976.9	2982.9	3006.4						
24D0802-01		UNK	04/16/24 12:48:32 pm	-0.0738	305	1.26			1.0000	N/A
Replicates	319.5	300.3	290.3	311.3						
24D1265-01		UNK	04/16/24 12:51:04 pm	-0.0617	472	0.93			1.0000	N/A
Replicates	474.9	460.8	474.0	479.0						
24D1265-02		UNK	04/16/24 12:53:36 pm	-0.0514	613	2.87			1.0000	N/A
Replicates	591.5	612.9	640.4	608.1						
SEQ-CCV		CCV	04/16/24 01:11:57 pm	5.2350	73422	1.34			1.0000	104.70
Replicates	72222.3	73133.5	73861.5	74470.7						
SEQ-CCB		CCB	04/16/24 01:16:22 pm	-0.0472	672	1.34			1.0000	N/A
Replicates	665.2	675.8	682.5	664.5						

APPROVED
By AMV at 1:55 pm, 4/16/24

APPROVED
By AMV at 1:55 pm, 4/16/24

ICP

SAMPLE DATA

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-22B-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-03
Sampled:	04/02/24 09:10		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 14:45	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 14:45	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7440-39-3	Barium (dissolved)	0.022	0.0057	0.050	1	J	B370707	04/16/24 14:45	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 14:45	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 14:45	SW-846 6010E
7440-70-2	Calcium (dissolved)	25	0.091	0.50	1		B370707	04/16/24 14:45	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 14:45	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7439-95-4	Magnesium (dissolved)	4.2	0.016	0.050	1		B370707	04/16/24 14:45	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.44	0.0028	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7440-09-7	Potassium (dissolved)	2.5	0.33	2.0	1		B370707	04/16/24 14:45	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 14:45	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7440-23-5	Sodium (dissolved)	14	0.74	2.0	1		B370707	04/16/24 14:45	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 14:45	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 14:45	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 15:57	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-22A-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-04
Sampled:	04/02/24 09:24		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)	0.035	0.020	0.050	1	J	B370707	04/16/24 14:40	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 14:40	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7440-39-3	Barium (dissolved)	0.021	0.0057	0.050	1	J	B370707	04/16/24 14:40	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 14:40	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 14:40	SW-846 6010E
7440-70-2	Calcium (dissolved)	32	0.091	0.50	1		B370707	04/16/24 14:40	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7439-89-6	Iron (dissolved)	1.8	0.023	0.050	1		B370707	04/16/24 14:40	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7439-95-4	Magnesium (dissolved)	6.0	0.016	0.050	1		B370707	04/16/24 14:40	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.21	0.0028	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7440-09-7	Potassium (dissolved)	0.79	0.33	2.0	1	J	B370707	04/16/24 14:40	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 14:40	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7440-23-5	Sodium (dissolved)	56	0.74	2.0	1	MS-19	B370707	04/16/24 14:40	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 14:40	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 14:40	SW-846 6010E
7440-66-6	Zinc (dissolved)	0.087	0.0080	0.010	1		B370707	04/18/24 15:51	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-13B-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-05
Sampled:	04/02/24 11:46		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 14:51	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 14:51	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7440-39-3	Barium (dissolved)	0.033	0.0057	0.050	1	J	B370707	04/16/24 14:51	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 14:51	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 14:51	SW-846 6010E
7440-70-2	Calcium (dissolved)	9.2	0.091	0.50	1		B370707	04/16/24 14:51	SW-846 6010E
7440-47-3	Chromium (dissolved)	0.018	0.0093	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 14:51	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7439-95-4	Magnesium (dissolved)	1.5	0.016	0.050	1		B370707	04/16/24 14:51	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.012	0.0028	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7440-09-7	Potassium (dissolved)	1.5	0.33	2.0	1	J	B370707	04/16/24 14:51	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 14:51	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7440-23-5	Sodium (dissolved)	12	0.74	2.0	1		B370707	04/16/24 14:51	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 14:51	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 14:51	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 16:02	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-13A-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-06
Sampled:	04/02/24 12:38		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:07	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:07	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7440-39-3	Barium (dissolved)	0.033	0.0057	0.050	1	J	B370707	04/16/24 15:07	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:07	SW-846 6010E
7440-43-9	Cadmium (dissolved)	0.50	0.0013	0.0040	1		B370707	04/16/24 15:07	SW-846 6010E
7440-70-2	Calcium (dissolved)	33	0.091	0.50	1		B370707	04/16/24 15:07	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7439-89-6	Iron (dissolved)	0.11	0.023	0.050	1		B370707	04/16/24 15:07	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7439-95-4	Magnesium (dissolved)	5.1	0.016	0.050	1		B370707	04/16/24 15:07	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.048	0.0028	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7440-02-0	Nickel (dissolved)	0.0027	0.0024	0.010	1	J	B370707	04/16/24 15:07	SW-846 6010E
7440-09-7	Potassium (dissolved)	3.6	0.33	2.0	1		B370707	04/16/24 15:07	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:07	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7440-23-5	Sodium (dissolved)	58	0.74	2.0	1		B370707	04/16/24 15:07	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:07	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:07	SW-846 6010E
7440-66-6	Zinc (dissolved)	0.016	0.0080	0.010	1		B370707	04/18/24 16:08	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-9B-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-07
Sampled:	04/02/24 14:25		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:13	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:13	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7440-39-3	Barium (dissolved)	0.013	0.0057	0.050	1	J	B370707	04/16/24 15:13	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:13	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 15:13	SW-846 6010E
7440-70-2	Calcium (dissolved)	8.0	0.091	0.50	1		B370707	04/16/24 15:13	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 15:13	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7439-95-4	Magnesium (dissolved)	1.4	0.016	0.050	1		B370707	04/16/24 15:13	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.011	0.0028	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7440-09-7	Potassium (dissolved)	1.4	0.33	2.0	1	J	B370707	04/16/24 15:13	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:13	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7440-23-5	Sodium (dissolved)	11	0.74	2.0	1		B370707	04/16/24 15:13	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:13	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:13	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 16:14	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-9-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-08
Sampled:	04/02/24 14:42		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:19	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:19	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7440-39-3	Barium (dissolved)	0.022	0.0057	0.050	1	J	B370707	04/16/24 15:19	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:19	SW-846 6010E
7440-43-9	Cadmium (dissolved)	0.048	0.0013	0.0040	1		B370707	04/16/24 15:19	SW-846 6010E
7440-70-2	Calcium (dissolved)	53	0.091	0.50	1		B370707	04/16/24 15:19	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 15:19	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7439-95-4	Magnesium (dissolved)	5.6	0.016	0.050	1		B370707	04/16/24 15:19	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.20	0.0028	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7440-09-7	Potassium (dissolved)	5.7	0.33	2.0	1		B370707	04/16/24 15:19	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:19	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7440-23-5	Sodium (dissolved)	23	0.74	2.0	1		B370707	04/16/24 15:19	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:19	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:19	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 16:19	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-23A-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-09
Sampled:	04/02/24 15:47		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)	0.072	0.020	0.050	1		B370707	04/16/24 15:24	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:24	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7440-39-3	Barium (dissolved)	0.015	0.0057	0.050	1	J	B370707	04/16/24 15:24	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:24	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 15:24	SW-846 6010E
7440-70-2	Calcium (dissolved)	28	0.091	0.50	1		B370707	04/16/24 15:24	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7439-89-6	Iron (dissolved)	0.88	0.023	0.050	1		B370707	04/16/24 15:24	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7439-95-4	Magnesium (dissolved)	5.2	0.016	0.050	1		B370707	04/16/24 15:24	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.13	0.0028	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7440-09-7	Potassium (dissolved)	4.1	0.33	2.0	1		B370707	04/16/24 15:24	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:24	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7440-23-5	Sodium (dissolved)	37	0.74	2.0	1		B370707	04/16/24 15:24	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:24	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:24	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 16:25	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-23B-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-10
Sampled:	04/02/24 16:30		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:30	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:30	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:30	SW-846 6010E
7440-39-3	Barium (dissolved)	0.0094	0.0057	0.050	1	J	B370707	04/16/24 15:30	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:30	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 15:30	SW-846 6010E
7440-70-2	Calcium (dissolved)	5.9	0.091	0.50	1		B370707	04/16/24 15:30	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:30	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:30	SW-846 6010E
7440-50-8	Copper (dissolved)	0.0073	0.0047	0.010	1	J	B370707	04/16/24 15:30	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 15:30	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:30	SW-846 6010E
7439-95-4	Magnesium (dissolved)	0.92	0.016	0.050	1		B370707	04/16/24 15:30	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.0031	0.0028	0.010	1	J	B370707	04/16/24 15:30	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:30	SW-846 6010E
7440-09-7	Potassium (dissolved)	0.54	0.33	2.0	1	J	B370707	04/16/24 15:30	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:30	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:30	SW-846 6010E
7440-23-5	Sodium (dissolved)	9.4	0.74	2.0	1		B370707	04/16/24 15:30	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:30	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:30	SW-846 6010E
7440-66-6	Zinc (dissolved)	0.036	0.0080	0.010	1		B370707	04/18/24 16:30	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-17-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-11
Sampled:	04/03/24 08:19		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:35	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:35	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7440-39-3	Barium (dissolved)	0.014	0.0057	0.050	1	J	B370707	04/16/24 15:35	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:35	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 15:35	SW-846 6010E
7440-70-2	Calcium (dissolved)	20	0.091	0.50	1		B370707	04/16/24 15:35	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 15:35	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7439-95-4	Magnesium (dissolved)	6.1	0.016	0.050	1		B370707	04/16/24 15:35	SW-846 6010E
7439-96-5	Manganese (dissolved)		0.0028	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7440-09-7	Potassium (dissolved)	1.5	0.33	2.0	1	J	B370707	04/16/24 15:35	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:35	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7440-23-5	Sodium (dissolved)	12	0.74	2.0	1		B370707	04/16/24 15:35	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:35	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:35	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 16:36	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-15B-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-12
Sampled:	04/03/24 09:36		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:41	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:41	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7440-39-3	Barium (dissolved)	0.041	0.0057	0.050	1	J	B370707	04/16/24 15:41	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:41	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 15:41	SW-846 6010E
7440-70-2	Calcium (dissolved)	13	0.091	0.50	1		B370707	04/16/24 15:41	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7439-89-6	Iron (dissolved)	2.3	0.023	0.050	1		B370707	04/16/24 15:41	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7439-95-4	Magnesium (dissolved)	5.5	0.016	0.050	1		B370707	04/16/24 15:41	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.14	0.0028	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7440-09-7	Potassium (dissolved)	1.4	0.33	2.0	1	J	B370707	04/16/24 15:41	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:41	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7440-23-5	Sodium (dissolved)	34	0.74	2.0	1		B370707	04/16/24 15:41	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:41	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:41	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 16:41	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-15A-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-13
Sampled:	04/03/24 09:40		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:46	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:46	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7440-39-3	Barium (dissolved)	0.0086	0.0057	0.050	1	J	B370707	04/16/24 15:46	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:46	SW-846 6010E
7440-43-9	Cadmium (dissolved)	0.0014	0.0013	0.0040	1	J	B370707	04/16/24 15:46	SW-846 6010E
7440-70-2	Calcium (dissolved)	16	0.091	0.50	1		B370707	04/16/24 15:46	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 15:46	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7439-95-4	Magnesium (dissolved)	1.7	0.016	0.050	1		B370707	04/16/24 15:46	SW-846 6010E
7439-96-5	Manganese (dissolved)		0.0028	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7440-09-7	Potassium (dissolved)	1.9	0.33	2.0	1	J	B370707	04/16/24 15:46	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:46	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7440-23-5	Sodium (dissolved)	9.7	0.74	2.0	1		B370707	04/16/24 15:46	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:46	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:46	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 16:58	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-18-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-14
Sampled:	04/03/24 10:34		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:52	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:52	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7440-39-3	Barium (dissolved)		0.0057	0.050	1		B370707	04/16/24 15:52	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:52	SW-846 6010E
7440-43-9	Cadmium (dissolved)		0.0013	0.0040	1		B370707	04/16/24 15:52	SW-846 6010E
7440-70-2	Calcium (dissolved)	16	0.091	0.50	1		B370707	04/16/24 15:52	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 15:52	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7439-95-4	Magnesium (dissolved)	1.7	0.016	0.050	1		B370707	04/16/24 15:52	SW-846 6010E
7439-96-5	Manganese (dissolved)		0.0028	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7440-09-7	Potassium (dissolved)	0.72	0.33	2.0	1	J	B370707	04/16/24 15:52	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:52	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7440-23-5	Sodium (dissolved)	5.2	0.74	2.0	1		B370707	04/16/24 15:52	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:52	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:52	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 17:04	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-2-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-15
Sampled:	04/03/24 11:35		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 15:57	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 15:57	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7440-39-3	Barium (dissolved)	0.044	0.0057	0.050	1	J	B370707	04/16/24 15:57	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 15:57	SW-846 6010E
7440-43-9	Cadmium (dissolved)	0.0040	0.0013	0.0040	1	J	B370707	04/16/24 15:57	SW-846 6010E
7440-70-2	Calcium (dissolved)	32	0.091	0.50	1		B370707	04/16/24 15:57	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7439-89-6	Iron (dissolved)		0.023	0.050	1		B370707	04/16/24 15:57	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7439-95-4	Magnesium (dissolved)	4.2	0.016	0.050	1		B370707	04/16/24 15:57	SW-846 6010E
7439-96-5	Manganese (dissolved)		0.0028	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7440-09-7	Potassium (dissolved)	2.8	0.33	2.0	1		B370707	04/16/24 15:57	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 15:57	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7440-23-5	Sodium (dissolved)	51	0.74	2.0	1		B370707	04/16/24 15:57	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 15:57	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 15:57	SW-846 6010E
7440-66-6	Zinc (dissolved)		0.0080	0.010	1		B370707	04/18/24 17:09	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-1-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-16
Sampled:	04/03/24 12:45		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 16:24	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 16:24	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7440-39-3	Barium (dissolved)	0.023	0.0057	0.050	1	J	B370707	04/16/24 16:24	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 16:24	SW-846 6010E
7440-43-9	Cadmium (dissolved)	0.0050	0.0013	0.0040	1		B370707	04/16/24 16:24	SW-846 6010E
7440-70-2	Calcium (dissolved)	19	0.091	0.50	1		B370707	04/16/24 16:24	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7440-48-4	Cobalt (dissolved)	0.0044	0.0017	0.010	1	J	B370707	04/16/24 16:24	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7439-89-6	Iron (dissolved)	0.045	0.023	0.050	1	J	B370707	04/16/24 16:24	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7439-95-4	Magnesium (dissolved)	2.8	0.016	0.050	1		B370707	04/16/24 16:24	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.52	0.0028	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7440-02-0	Nickel (dissolved)		0.0024	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7440-09-7	Potassium (dissolved)	2.0	0.33	2.0	1	J	B370707	04/16/24 16:24	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 16:24	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7440-23-5	Sodium (dissolved)	29	0.74	2.0	1		B370707	04/16/24 16:24	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 16:24	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 16:24	SW-846 6010E
7440-66-6	Zinc (dissolved)	0.041	0.0080	0.010	1		B370707	04/18/24 17:15	SW-846 6010E

1 - FORM I

ANALYSIS DATA SHEET

152033-SM-MW-FD-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-17
Sampled:	04/02/24 00:00		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum (dissolved)		0.020	0.050	1		B370707	04/16/24 16:30	SW-846 6010E
7440-36-0	Antimony (dissolved)		0.011	0.050	1		B370707	04/16/24 16:30	SW-846 6010E
7440-38-2	Arsenic (dissolved)		0.0073	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7440-39-3	Barium (dissolved)	0.033	0.0057	0.050	1	J	B370707	04/16/24 16:30	SW-846 6010E
7440-41-7	Beryllium (dissolved)		0.0012	0.0040	1		B370707	04/16/24 16:30	SW-846 6010E
7440-43-9	Cadmium (dissolved)	0.48	0.0013	0.0040	1		B370707	04/16/24 16:30	SW-846 6010E
7440-70-2	Calcium (dissolved)	33	0.091	0.50	1		B370707	04/16/24 16:30	SW-846 6010E
7440-47-3	Chromium (dissolved)		0.0093	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7440-48-4	Cobalt (dissolved)		0.0017	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7440-50-8	Copper (dissolved)		0.0047	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7439-89-6	Iron (dissolved)	0.10	0.023	0.050	1		B370707	04/16/24 16:30	SW-846 6010E
7439-92-1	Lead (dissolved)		0.0065	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7439-95-4	Magnesium (dissolved)	5.1	0.016	0.050	1		B370707	04/16/24 16:30	SW-846 6010E
7439-96-5	Manganese (dissolved)	0.046	0.0028	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7440-02-0	Nickel (dissolved)	0.0024	0.0024	0.010	1	J	B370707	04/16/24 16:30	SW-846 6010E
7440-09-7	Potassium (dissolved)	3.7	0.33	2.0	1		B370707	04/16/24 16:30	SW-846 6010E
7782-49-2	Selenium (dissolved)		0.018	0.050	1		B370707	04/16/24 16:30	SW-846 6010E
7440-22-4	Silver (dissolved)		0.0027	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7440-23-5	Sodium (dissolved)	58	0.74	2.0	1		B370707	04/16/24 16:30	SW-846 6010E
7440-28-0	Thallium (dissolved)		0.019	0.050	1		B370707	04/16/24 16:30	SW-846 6010E
7440-62-2	Vanadium (dissolved)		0.0071	0.010	1		B370707	04/16/24 16:30	SW-846 6010E
7440-66-6	Zinc (dissolved)	0.011	0.0080	0.010	1		B370707	04/18/24 17:21	SW-846 6010E

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
		Sequence:	S103232

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103232-ICV1	Aluminum (dissolved)	2.00	2.04	102	mg/L	+/- 10.00%
	Antimony (dissolved)	2.00	1.99	99.4	mg/L	+/- 10.00%
	Arsenic (dissolved)	2.00	1.98	99.1	mg/L	+/- 10.00%
	Barium (dissolved)	2.00	2.04	102	mg/L	+/- 10.00%
	Beryllium (dissolved)	2.00	1.97	98.6	mg/L	+/- 10.00%
	Cadmium (dissolved)	2.00	1.99	99.5	mg/L	+/- 10.00%
	Calcium (dissolved)	2.00	2.02	101	mg/L	+/- 10.00%
	Chromium (dissolved)	2.00	2.02	101	mg/L	+/- 10.00%
	Cobalt (dissolved)	2.00	2.02	101	mg/L	+/- 10.00%
	Copper (dissolved)	2.00	1.99	99.3	mg/L	+/- 10.00%
	Iron (dissolved)	2.00	2.10	105	mg/L	+/- 10.00%
	Lead (dissolved)	2.00	2.01	101	mg/L	+/- 10.00%
	Magnesium (dissolved)	2.00	2.08	104	mg/L	+/- 10.00%
	Manganese (dissolved)	2.00	1.98	98.8	mg/L	+/- 10.00%
	Nickel (dissolved)	2.00	2.03	101	mg/L	+/- 10.00%
	Potassium (dissolved)	2.00	1.94	96.9	mg/L	+/- 10.00%
	Selenium (dissolved)	2.00	1.98	98.9	mg/L	+/- 10.00%
	Silver (dissolved)	1.00	0.966	96.6	mg/L	+/- 10.00%
	Sodium (dissolved)	2.00	1.85	92.7	mg/L	+/- 10.00%
	Thallium (dissolved)	1.00	0.981	98.1	mg/L	+/- 10.00%
	Vanadium (dissolved)	2.00	1.98	98.9	mg/L	+/- 10.00%
S103232-CCV1	Aluminum (dissolved)	10.0	9.80	98.0	mg/L	+/- 10.00%
	Antimony (dissolved)	5.00	4.86	97.2	mg/L	+/- 10.00%
	Arsenic (dissolved)	5.00	4.93	98.5	mg/L	+/- 10.00%
	Barium (dissolved)	5.00	4.98	99.7	mg/L	+/- 10.00%
	Beryllium (dissolved)	5.00	4.88	97.6	mg/L	+/- 10.00%
	Cadmium (dissolved)	5.00	4.91	98.1	mg/L	+/- 10.00%
	Calcium (dissolved)	10.0	9.81	98.1	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	4.93	98.5	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
		Sequence:	S103232

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103232-CCV1	Cobalt (dissolved)	5.00	4.97	99.3	mg/L	+/- 10.00%
	Copper (dissolved)	5.00	4.88	97.7	mg/L	+/- 10.00%
	Iron (dissolved)	5.00	4.98	99.7	mg/L	+/- 10.00%
	Lead (dissolved)	5.00	4.94	98.8	mg/L	+/- 10.00%
	Magnesium (dissolved)	10.0	9.92	99.2	mg/L	+/- 10.00%
	Manganese (dissolved)	5.00	4.97	99.4	mg/L	+/- 10.00%
	Nickel (dissolved)	5.00	4.96	99.3	mg/L	+/- 10.00%
	Potassium (dissolved)	10.0	9.60	96.0	mg/L	+/- 10.00%
	Selenium (dissolved)	5.00	4.95	99.0	mg/L	+/- 10.00%
	Silver (dissolved)	2.50	2.38	95.4	mg/L	+/- 10.00%
	Sodium (dissolved)	10.0	9.26	92.6	mg/L	+/- 10.00%
	Thallium (dissolved)	2.50	2.43	97.3	mg/L	+/- 10.00%
	Vanadium (dissolved)	5.00	4.91	98.3	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
		Sequence:	S103279

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103279-CCV1	Aluminum (dissolved)	10.0	9.37	93.7	mg/L	+/- 10.00%
	Antimony (dissolved)	5.00	4.83	96.7	mg/L	+/- 10.00%
	Arsenic (dissolved)	5.00	4.84	96.8	mg/L	+/- 10.00%
	Barium (dissolved)	5.00	4.90	98.0	mg/L	+/- 10.00%
	Beryllium (dissolved)	5.00	4.88	97.7	mg/L	+/- 10.00%
	Cadmium (dissolved)	5.00	4.83	96.7	mg/L	+/- 10.00%
	Calcium (dissolved)	10.0	9.46	94.6	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	4.85	97.1	mg/L	+/- 10.00%
	Cobalt (dissolved)	5.00	4.90	98.0	mg/L	+/- 10.00%
	Copper (dissolved)	5.00	4.89	97.8	mg/L	+/- 10.00%
	Iron (dissolved)	5.00	4.84	96.8	mg/L	+/- 10.00%
	Lead (dissolved)	5.00	4.86	97.2	mg/L	+/- 10.00%
	Magnesium (dissolved)	10.0	9.65	96.5	mg/L	+/- 10.00%
	Manganese (dissolved)	5.00	4.86	97.1	mg/L	+/- 10.00%
	Nickel (dissolved)	5.00	4.90	98.1	mg/L	+/- 10.00%
	Potassium (dissolved)	10.0	9.62	96.2	mg/L	+/- 10.00%
	Selenium (dissolved)	5.00	4.89	97.8	mg/L	+/- 10.00%
	Silver (dissolved)	2.50	2.42	96.7	mg/L	+/- 10.00%
	Sodium (dissolved)	10.0	9.93	99.3	mg/L	+/- 10.00%
	Thallium (dissolved)	2.50	2.41	96.3	mg/L	+/- 10.00%
	Vanadium (dissolved)	5.00	4.86	97.2	mg/L	+/- 10.00%
S103279-CCV2	Aluminum (dissolved)	10.0	9.30	93.0	mg/L	+/- 10.00%
	Antimony (dissolved)	5.00	4.74	94.8	mg/L	+/- 10.00%
	Arsenic (dissolved)	5.00	4.75	95.1	mg/L	+/- 10.00%
	Barium (dissolved)	5.00	4.89	97.9	mg/L	+/- 10.00%
	Beryllium (dissolved)	5.00	4.78	95.5	mg/L	+/- 10.00%
	Cadmium (dissolved)	5.00	4.81	96.3	mg/L	+/- 10.00%
	Calcium (dissolved)	10.0	9.44	94.4	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	4.85	96.9	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
		Sequence:	S103279

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103279-CCV2	Cobalt (dissolved)	5.00	4.88	97.5	mg/L	+/- 10.00%
	Copper (dissolved)	5.00	4.85	97.1	mg/L	+/- 10.00%
	Iron (dissolved)	5.00	4.80	95.9	mg/L	+/- 10.00%
	Lead (dissolved)	5.00	4.78	95.5	mg/L	+/- 10.00%
	Magnesium (dissolved)	10.0	9.62	96.2	mg/L	+/- 10.00%
	Manganese (dissolved)	5.00	4.83	96.6	mg/L	+/- 10.00%
	Nickel (dissolved)	5.00	4.88	97.6	mg/L	+/- 10.00%
	Potassium (dissolved)	10.0	9.70	97.0	mg/L	+/- 10.00%
	Selenium (dissolved)	5.00	4.78	95.6	mg/L	+/- 10.00%
	Silver (dissolved)	2.50	2.36	94.5	mg/L	+/- 10.00%
	Sodium (dissolved)	10.0	9.60	96.0	mg/L	+/- 10.00%
	Thallium (dissolved)	2.50	2.37	94.7	mg/L	+/- 10.00%
	Vanadium (dissolved)	5.00	4.84	96.8	mg/L	+/- 10.00%
	Aluminum (dissolved)	10.0	9.34	93.4	mg/L	+/- 10.00%
S103279-CCV3	Antimony (dissolved)	5.00	4.75	95.0	mg/L	+/- 10.00%
	Arsenic (dissolved)	5.00	4.79	95.8	mg/L	+/- 10.00%
	Barium (dissolved)	5.00	4.89	97.7	mg/L	+/- 10.00%
	Beryllium (dissolved)	5.00	4.80	96.0	mg/L	+/- 10.00%
	Cadmium (dissolved)	5.00	4.81	96.3	mg/L	+/- 10.00%
	Calcium (dissolved)	10.0	9.44	94.4	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	4.85	97.0	mg/L	+/- 10.00%
	Cobalt (dissolved)	5.00	4.87	97.5	mg/L	+/- 10.00%
	Copper (dissolved)	5.00	4.87	97.4	mg/L	+/- 10.00%
	Iron (dissolved)	5.00	4.85	97.0	mg/L	+/- 10.00%
	Lead (dissolved)	5.00	4.83	96.7	mg/L	+/- 10.00%
	Magnesium (dissolved)	10.0	9.62	96.2	mg/L	+/- 10.00%
	Manganese (dissolved)	5.00	4.85	97.1	mg/L	+/- 10.00%
	Nickel (dissolved)	5.00	4.88	97.6	mg/L	+/- 10.00%
	Potassium (dissolved)	10.0	9.49	94.9	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
		Sequence:	S103279

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103279-CCV3	Selenium (dissolved)	5.00	4.82	96.5	mg/L	+/- 10.00%
	Silver (dissolved)	2.50	2.42	96.6	mg/L	+/- 10.00%
	Sodium (dissolved)	10.0	9.31	93.1	mg/L	+/- 10.00%
	Thallium (dissolved)	2.50	2.39	95.5	mg/L	+/- 10.00%
	Vanadium (dissolved)	5.00	4.85	96.9	mg/L	+/- 10.00%
S103279-CCV4	Aluminum (dissolved)	10.0	9.23	92.3	mg/L	+/- 10.00%
	Antimony (dissolved)	5.00	4.79	95.8	mg/L	+/- 10.00%
	Arsenic (dissolved)	5.00	4.82	96.5	mg/L	+/- 10.00%
	Barium (dissolved)	5.00	4.90	98.0	mg/L	+/- 10.00%
	Beryllium (dissolved)	5.00	4.81	96.3	mg/L	+/- 10.00%
	Cadmium (dissolved)	5.00	4.83	96.6	mg/L	+/- 10.00%
	Calcium (dissolved)	10.0	9.42	94.2	mg/L	+/- 10.00%
	Chromium (dissolved)	5.00	4.84	96.9	mg/L	+/- 10.00%
	Cobalt (dissolved)	5.00	4.89	97.8	mg/L	+/- 10.00%
	Copper (dissolved)	5.00	4.86	97.2	mg/L	+/- 10.00%
	Iron (dissolved)	5.00	4.84	96.8	mg/L	+/- 10.00%
	Lead (dissolved)	5.00	4.84	96.8	mg/L	+/- 10.00%
	Magnesium (dissolved)	10.0	9.61	96.1	mg/L	+/- 10.00%
	Manganese (dissolved)	5.00	4.86	97.1	mg/L	+/- 10.00%
	Nickel (dissolved)	5.00	4.89	97.7	mg/L	+/- 10.00%
	Potassium (dissolved)	10.0	9.67	96.7	mg/L	+/- 10.00%
	Selenium (dissolved)	5.00	4.87	97.5	mg/L	+/- 10.00%
	Silver (dissolved)	2.50	2.40	96.0	mg/L	+/- 10.00%
	Sodium (dissolved)	10.0	9.62	96.2	mg/L	+/- 10.00%
	Thallium (dissolved)	2.50	2.40	95.9	mg/L	+/- 10.00%
	Vanadium (dissolved)	5.00	4.87	97.4	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400451
		Sequence:	S103402

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103402-CCV1	Zinc (dissolved)	5.00	4.78	95.7	mg/L	+/- 10.00%
S103402-CCV2	Zinc (dissolved)	5.00	4.94	98.9	mg/L	+/- 10.00%
S103402-CCV3	Zinc (dissolved)	5.00	4.93	98.6	mg/L	+/- 10.00%
S103402-CCV4	Zinc (dissolved)	5.00	4.95	99.0	mg/L	+/- 10.00%

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW-846 6010D

Laboratory: Pace New England

SDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Project: DW_Dzus Fastener Co. Inc.

Calibration: 2400437

Laboratory ID: S103232-LCV1

Sequence: S103232

Standard ID: 23J0971

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Aluminum (dissolved)	0.0500	0.0451	-9.8	20.00
Antimony (dissolved)	0.0500	0.0430	-14.0	20.00
Arsenic (dissolved)	0.0100	0.00805	-19.5	20.00
Barium (dissolved)	0.0500	0.0514	2.8	20.00
Beryllium (dissolved)	0.00400	0.00398	-0.5	20.00
Cadmium (dissolved)	0.00400	0.00408	2.0	20.00
Calcium (dissolved)	0.500	0.501	0.2	20.00
Chromium (dissolved)	0.0100	0.0100	0.1	20.00
Cobalt (dissolved)	0.0100	0.0102	1.8	20.00
Copper (dissolved)	0.0100	0.00823	-17.7	20.00
Iron (dissolved)	0.0500	0.0546	9.2	20.00
Lead (dissolved)	0.0100	0.0112	11.8	20.00
Magnesium (dissolved)	0.0500	0.0521	4.2	20.00
Manganese (dissolved)	0.0100	0.0103	2.8	20.00
Nickel (dissolved)	0.0100	0.0103	3.1	20.00
Potassium (dissolved)	2.00	1.88	-6.0	20.00
Selenium (dissolved)	0.0500	0.0491	-1.8	20.00
Silver (dissolved)	0.0100	0.0104	3.8	20.00
Sodium (dissolved)	2.00	1.76	-12.0	20.00
Thallium (dissolved)	0.0500	0.0419	-16.2	20.00
Vanadium (dissolved)	0.0100	0.0107	6.9	20.00

* Values outside of QC limits

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP2 Calibration: 2400437
Sequence: S103232

Lab Sample ID	Analyte	Found	Units	RL	C
S103232-ICB1	Aluminum (dissolved)		mg/L	0.050	U
	Antimony (dissolved)		mg/L	0.050	U
	Arsenic (dissolved)		mg/L	0.010	U
	Barium (dissolved)		mg/L	0.050	U
	Beryllium (dissolved)		mg/L	0.0040	U
	Cadmium (dissolved)		mg/L	0.0040	U
	Calcium (dissolved)		mg/L	0.50	U
	Chromium (dissolved)		mg/L	0.010	U
	Cobalt (dissolved)		mg/L	0.010	U
	Copper (dissolved)		mg/L	0.010	U
	Iron (dissolved)		mg/L	0.050	U
	Lead (dissolved)		mg/L	0.010	U
	Magnesium (dissolved)		mg/L	0.050	U
	Manganese (dissolved)		mg/L	0.010	U
	Nickel (dissolved)		mg/L	0.010	U
	Potassium (dissolved)		mg/L	2.0	U
	Selenium (dissolved)		mg/L	0.050	U
	Silver (dissolved)		mg/L	0.010	U
	Sodium (dissolved)		mg/L	2.0	U
	Thallium (dissolved)		mg/L	0.050	U
	Vanadium (dissolved)		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400437
 Sequence: S103279

Lab Sample ID	Analyte	Found	Units	RL	C
S103279-CCB1	Aluminum (dissolved)		mg/L	0.050	U
	Antimony (dissolved)		mg/L	0.050	U
	Arsenic (dissolved)		mg/L	0.010	U
	Barium (dissolved)		mg/L	0.050	U
	Beryllium (dissolved)		mg/L	0.0040	U
	Cadmium (dissolved)		mg/L	0.0040	U
	Calcium (dissolved)		mg/L	0.50	U
	Chromium (dissolved)		mg/L	0.010	U
	Cobalt (dissolved)		mg/L	0.010	U
	Copper (dissolved)		mg/L	0.010	U
	Iron (dissolved)		mg/L	0.050	U
	Lead (dissolved)		mg/L	0.010	U
	Magnesium (dissolved)		mg/L	0.050	U
	Manganese (dissolved)		mg/L	0.010	U
	Nickel (dissolved)		mg/L	0.010	U
	Potassium (dissolved)		mg/L	2.0	U
	Selenium (dissolved)		mg/L	0.050	U
	Silver (dissolved)		mg/L	0.010	U
	Sodium (dissolved)		mg/L	2.0	U
	Thallium (dissolved)		mg/L	0.050	U
	Vanadium (dissolved)		mg/L	0.010	U
B370707-BLK1	Aluminum (dissolved)		mg/L	0.050	U
	Antimony (dissolved)		mg/L	0.050	U
	Arsenic (dissolved)		mg/L	0.010	U
	Barium (dissolved)		mg/L	0.050	U
	Beryllium (dissolved)		mg/L	0.0040	U
	Cadmium (dissolved)		mg/L	0.0040	U
	Calcium (dissolved)		mg/L	0.50	U
	Chromium (dissolved)		mg/L	0.010	U
	Cobalt (dissolved)		mg/L	0.010	U
	Copper (dissolved)		mg/L	0.010	U
	Iron (dissolved)		mg/L	0.050	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400437
 Sequence: S103279

Lab Sample ID	Analyte	Found	Units	RL	C
B370707-BLK1	Lead (dissolved)		mg/L	0.010	U
	Magnesium (dissolved)		mg/L	0.050	U
	Manganese (dissolved)		mg/L	0.010	U
	Nickel (dissolved)		mg/L	0.010	U
	Potassium (dissolved)		mg/L	2.0	U
	Selenium (dissolved)		mg/L	0.050	U
	Silver (dissolved)		mg/L	0.010	U
	Sodium (dissolved)		mg/L	2.0	U
	Thallium (dissolved)		mg/L	0.050	U
	Vanadium (dissolved)		mg/L	0.010	U
S103279-CCB2	Aluminum (dissolved)		mg/L	0.050	U
	Antimony (dissolved)		mg/L	0.050	U
	Arsenic (dissolved)		mg/L	0.010	U
	Barium (dissolved)		mg/L	0.050	U
	Beryllium (dissolved)		mg/L	0.0040	U
	Cadmium (dissolved)		mg/L	0.0040	U
	Calcium (dissolved)		mg/L	0.50	U
	Chromium (dissolved)		mg/L	0.010	U
	Cobalt (dissolved)		mg/L	0.010	U
	Copper (dissolved)		mg/L	0.010	U
	Iron (dissolved)		mg/L	0.050	U
	Lead (dissolved)		mg/L	0.010	U
	Magnesium (dissolved)		mg/L	0.050	U
	Manganese (dissolved)		mg/L	0.010	U
	Nickel (dissolved)		mg/L	0.010	U
	Potassium (dissolved)		mg/L	2.0	U
	Selenium (dissolved)		mg/L	0.050	U
	Silver (dissolved)		mg/L	0.010	U
	Sodium (dissolved)		mg/L	2.0	U
	Thallium (dissolved)		mg/L	0.050	U
	Vanadium (dissolved)		mg/L	0.010	U
S103279-CCB3	Aluminum (dissolved)		mg/L	0.050	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Instrument ID: ICP2 Calibration: 2400437
 Sequence: S103279

Lab Sample ID	Analyte	Found	Units	RL	C
S103279-CCB3	Antimony (dissolved)		mg/L	0.050	U
	Arsenic (dissolved)		mg/L	0.010	U
	Barium (dissolved)		mg/L	0.050	U
	Beryllium (dissolved)		mg/L	0.0040	U
	Cadmium (dissolved)		mg/L	0.0040	U
	Calcium (dissolved)		mg/L	0.50	U
	Chromium (dissolved)		mg/L	0.010	U
	Cobalt (dissolved)		mg/L	0.010	U
	Copper (dissolved)		mg/L	0.010	U
	Iron (dissolved)		mg/L	0.050	U
	Lead (dissolved)		mg/L	0.010	U
	Magnesium (dissolved)		mg/L	0.050	U
	Manganese (dissolved)		mg/L	0.010	U
	Nickel (dissolved)		mg/L	0.010	U
	Potassium (dissolved)		mg/L	2.0	U
	Selenium (dissolved)		mg/L	0.050	U
	Silver (dissolved)		mg/L	0.010	U
	Sodium (dissolved)		mg/L	2.0	U
	Thallium (dissolved)		mg/L	0.050	U
	Vanadium (dissolved)		mg/L	0.010	U
S103279-CCB4	Aluminum (dissolved)		mg/L	0.050	U
	Antimony (dissolved)		mg/L	0.050	U
	Arsenic (dissolved)		mg/L	0.010	U
	Barium (dissolved)		mg/L	0.050	U
	Beryllium (dissolved)		mg/L	0.0040	U
	Cadmium (dissolved)		mg/L	0.0040	U
	Calcium (dissolved)		mg/L	0.50	U
	Chromium (dissolved)		mg/L	0.010	U
	Cobalt (dissolved)		mg/L	0.010	U
	Copper (dissolved)		mg/L	0.010	U
	Iron (dissolved)		mg/L	0.050	U
	Lead (dissolved)		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP2 Calibration: 2400437
Sequence: S103279

Lab Sample ID	Analyte	Found	Units	RL	C
S103279-CCB4	Magnesium (dissolved)		mg/L	0.050	U
	Manganese (dissolved)		mg/L	0.010	U
	Nickel (dissolved)		mg/L	0.010	U
	Potassium (dissolved)		mg/L	2.0	U
	Selenium (dissolved)		mg/L	0.050	U
	Silver (dissolved)		mg/L	0.010	U
	Sodium (dissolved)		mg/L	2.0	U
	Thallium (dissolved)		mg/L	0.050	U
	Vanadium (dissolved)		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP2 Calibration: 2400451
Sequence: S103402

Lab Sample ID	Analyte	Found	Units	RL	C
S103402-CCB1	Zinc (dissolved)		mg/L	0.010	U
B370707-BLK2	Zinc (dissolved)		mg/L	0.010	U
S103402-CCB2	Zinc (dissolved)		mg/L	0.010	U
S103402-CCB3	Zinc (dissolved)		mg/L	0.010	U
S103402-CCB4	Zinc (dissolved)		mg/L	0.010	U

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - I	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
Sequence:	S103279		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103279-IFA1	Aluminum (dissolved)	0.050	250	254.77	102	mg/L
	Antimony (dissolved)	0.050		0.01		mg/L
	Arsenic (dissolved)	0.010		0.00		mg/L
	Barium (dissolved)	0.050		0.00		mg/L
	Beryllium (dissolved)	0.0040		0.00		mg/L
	Cadmium (dissolved)	0.0040		0.00		mg/L
	Calcium (dissolved)	0.50	250	247.23	98.9	mg/L
	Chromium (dissolved)	0.010		0.00		mg/L
	Cobalt (dissolved)	0.010		0.00		mg/L
	Copper (dissolved)	0.010		-0.01		mg/L
	Iron (dissolved)	0.050	100	97.68	97.7	mg/L
	Lead (dissolved)	0.010		0.01		mg/L
	Magnesium (dissolved)	0.050	250	233.72	93.5	mg/L
	Manganese (dissolved)	0.010		0.00		mg/L
	Nickel (dissolved)	0.010		0.01		mg/L
	Potassium (dissolved)	2.0		0.03		mg/L
	Selenium (dissolved)	0.050		-0.03		mg/L
	Silver (dissolved)	0.010		0.00		mg/L
	Sodium (dissolved)	2.0		0.06		mg/L
	Thallium (dissolved)	0.050		-0.01		mg/L
	Vanadium (dissolved)	0.010		0.00		mg/L
S103279-IFB1	Aluminum (dissolved)	0.050	250	257.76	103	mg/L
	Antimony (dissolved)	0.050	1.20	1.11	92.2	mg/L
	Arsenic (dissolved)	0.010	0.200	0.19	96.3	mg/L
	Barium (dissolved)	0.050	1.00	0.99	98.7	mg/L
	Beryllium (dissolved)	0.0040	1.00	1.00	100	mg/L
	Cadmium (dissolved)	0.0040	2.00	2.02	101	mg/L
	Calcium (dissolved)	0.50	250	244.01	97.6	mg/L
	Chromium (dissolved)	0.010	1.00	0.96	95.9	mg/L
	Cobalt (dissolved)	0.010	1.00	0.90	90.5	mg/L
	Copper (dissolved)	0.010	1.00	1.01	101	mg/L
	Iron (dissolved)	0.050	100	97.14	97.1	mg/L
	Lead (dissolved)	0.010	0.100	0.10	97.4	mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - I	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
Sequence:	S103279		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103279-IFB1	Magnesium (dissolved)	0.050	250	232.88	93.2	mg/L
	Manganese (dissolved)	0.010	1.00	0.96	96.3	mg/L
	Nickel (dissolved)	0.010	2.00	1.80	90.0	mg/L
	Potassium (dissolved)	2.0		-0.02		mg/L
	Selenium (dissolved)	0.050	0.500	0.49	97.1	mg/L
	Silver (dissolved)	0.010	0.400	0.42	104	mg/L
	Sodium (dissolved)	2.0		0.05		mg/L
	Thallium (dissolved)	0.050	0.200	0.20	102	mg/L
	Vanadium (dissolved)	0.010	1.00	0.97	97.3	mg/L
S103279-IFA2	Aluminum (dissolved)	0.050	250	256.45	103	mg/L
	Antimony (dissolved)	0.050		0.01		mg/L
	Arsenic (dissolved)	0.010		0.00		mg/L
	Barium (dissolved)	0.050		0.00		mg/L
	Beryllium (dissolved)	0.0040		0.00		mg/L
	Cadmium (dissolved)	0.0040		0.00		mg/L
	Calcium (dissolved)	0.50	250	243.70	97.5	mg/L
	Chromium (dissolved)	0.010		0.00		mg/L
	Cobalt (dissolved)	0.010		0.00		mg/L
	Copper (dissolved)	0.010		0.00		mg/L
	Iron (dissolved)	0.050	100	96.77	96.8	mg/L
	Lead (dissolved)	0.010		0.00		mg/L
	Magnesium (dissolved)	0.050	250	231.86	92.7	mg/L
	Manganese (dissolved)	0.010		0.00		mg/L
	Nickel (dissolved)	0.010		0.01		mg/L
	Potassium (dissolved)	2.0		-0.01		mg/L
	Selenium (dissolved)	0.050		-0.03		mg/L
	Silver (dissolved)	0.010		0.00		mg/L
	Sodium (dissolved)	2.0		0.07		mg/L
	Thallium (dissolved)	0.050		-0.01		mg/L
	Vanadium (dissolved)	0.010		0.00		mg/L
S103279-IFB2	Aluminum (dissolved)	0.050	250	252.58	101	mg/L
	Antimony (dissolved)	0.050	1.20	1.09	90.7	mg/L
	Arsenic (dissolved)	0.010	0.200	0.19	95.2	mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - I	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
Sequence:	S103279		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103279-IFB2	Barium (dissolved)	0.050	1.00	0.97	97.2	mg/L
	Beryllium (dissolved)	0.0040	1.00	0.98	98.3	mg/L
	Cadmium (dissolved)	0.0040	2.00	1.98	99.2	mg/L
	Calcium (dissolved)	0.50	250	239.82	95.9	mg/L
	Chromium (dissolved)	0.010	1.00	0.95	94.5	mg/L
	Cobalt (dissolved)	0.010	1.00	0.89	89.0	mg/L
	Copper (dissolved)	0.010	1.00	0.99	99.4	mg/L
	Iron (dissolved)	0.050	100	95.73	95.7	mg/L
	Lead (dissolved)	0.010	0.100	0.10	96.2	mg/L
	Magnesium (dissolved)	0.050	250	229.14	91.7	mg/L
	Manganese (dissolved)	0.010	1.00	0.96	96.0	mg/L
	Nickel (dissolved)	0.010	2.00	1.77	88.6	mg/L
	Potassium (dissolved)	2.0		-0.01		mg/L
	Selenium (dissolved)	0.050	0.500	0.47	94.7	mg/L
	Silver (dissolved)	0.010	0.400	0.41	102	mg/L
	Sodium (dissolved)	2.0		0.06		mg/L
	Thallium (dissolved)	0.050	0.200	0.20	100	mg/L
	Vanadium (dissolved)	0.010	1.00	0.96	96.2	mg/L
S103279-IFA3	Aluminum (dissolved)	0.050	250	255.43	102	mg/L
	Antimony (dissolved)	0.050		0.01		mg/L
	Arsenic (dissolved)	0.010		0.00		mg/L
	Barium (dissolved)	0.050		0.00		mg/L
	Beryllium (dissolved)	0.0040		0.00		mg/L
	Cadmium (dissolved)	0.0040		0.00		mg/L
	Calcium (dissolved)	0.50	250	247.20	98.9	mg/L
	Chromium (dissolved)	0.010		0.00		mg/L
	Cobalt (dissolved)	0.010		0.00		mg/L
	Copper (dissolved)	0.010		-0.01		mg/L
	Iron (dissolved)	0.050	100	100.11	100	mg/L
	Lead (dissolved)	0.010		0.01		mg/L
	Magnesium (dissolved)	0.050	250	235.10	94.0	mg/L
	Manganese (dissolved)	0.010		0.00		mg/L
	Nickel (dissolved)	0.010		0.01		mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - I	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	ICP2	Calibration:	2400437
Sequence:	S103279		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103279-IFA3	Potassium (dissolved)	2.0		-0.01		mg/L
	Selenium (dissolved)	0.050		-0.03		mg/L
	Silver (dissolved)	0.010		0.00		mg/L
	Sodium (dissolved)	2.0		0.03		mg/L
	Thallium (dissolved)	0.050		0.00		mg/L
	Vanadium (dissolved)	0.010		0.00		mg/L
S103279-IFB3	Aluminum (dissolved)	0.050	250	245.76	98.3	mg/L
	Antimony (dissolved)	0.050	1.20	1.08	89.9	mg/L
	Arsenic (dissolved)	0.010	0.200	0.19	94.0	mg/L
	Barium (dissolved)	0.050	1.00	0.96	96.5	mg/L
	Beryllium (dissolved)	0.0040	1.00	1.00	100	mg/L
	Cadmium (dissolved)	0.0040	2.00	1.98	99.0	mg/L
	Calcium (dissolved)	0.50	250	241.66	96.7	mg/L
	Chromium (dissolved)	0.010	1.00	0.94	93.6	mg/L
	Cobalt (dissolved)	0.010	1.00	0.88	88.3	mg/L
	Copper (dissolved)	0.010	1.00	0.96	96.1	mg/L
	Iron (dissolved)	0.050	100	97.66	97.7	mg/L
	Lead (dissolved)	0.010	0.100	0.09	93.8	mg/L
	Magnesium (dissolved)	0.050	250	229.87	91.9	mg/L
	Manganese (dissolved)	0.010	1.00	0.97	96.6	mg/L
	Nickel (dissolved)	0.010	2.00	1.75	87.4	mg/L
	Potassium (dissolved)	2.0		0.02		mg/L
	Selenium (dissolved)	0.050	0.500	0.47	93.7	mg/L
	Silver (dissolved)	0.010	0.400	0.38	95.2	mg/L
	Sodium (dissolved)	2.0		0.04		mg/L
	Thallium (dissolved)	0.050	0.200	0.20	102	mg/L
	Vanadium (dissolved)	0.010	1.00	0.96	96.3	mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - | Project: DW_Dzus Fastener Co. Inc.
Instrument ID: ICP2 Calibration: 2400451
Sequence: S103402

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S103402-IFA1	Zinc (dissolved)	0.010		0.00		mg/L
S103402-IFB1	Zinc (dissolved)	0.010	2.00	1.83	91.4	mg/L
S103402-IFA2	Zinc (dissolved)	0.010		0.00		mg/L
S103402-IFB2	Zinc (dissolved)	0.010	2.00	1.75	87.4	mg/L
S103402-IFA3	Zinc (dissolved)	0.010		0.00		mg/L
S103402-IFB3	Zinc (dissolved)	0.010	2.00	1.74	87.2	mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

152033-SM-MW-22A-04022024

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Analysis:	SW-846 6010D
Batch:	B370707	Preparation:	SW-846 3005A Dissolved
% Solids:		Laboratory ID:	B370707-MS1
Column:		Sample Lab ID:	24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Aluminum (dissolved)	0.500	0.0354	0.552	103	75 - 125
Antimony (dissolved)	0.500	ND	0.518	104	75 - 125
Arsenic (dissolved)	0.500	ND	0.500	99.9	75 - 125
Barium (dissolved)	0.500	0.0205	0.538	103	75 - 125
Beryllium (dissolved)	0.500	ND	0.529	106	75 - 125
Cadmium (dissolved)	0.500	ND	0.517	103	75 - 125
Calcium (dissolved)	4.00	31.6	36.1	110	75 - 125
Chromium (dissolved)	0.500	ND	0.519	104	75 - 125
Cobalt (dissolved)	0.500	ND	0.511	102	75 - 125
Copper (dissolved)	1.00	ND	1.04	104	75 - 125
Iron (dissolved)	4.00	1.81	5.91	103	75 - 125
Lead (dissolved)	0.500	ND	0.504	101	75 - 125
Magnesium (dissolved)	4.00	6.02	10.1	102	75 - 125
Manganese (dissolved)	0.500	0.213	0.725	102	75 - 125
Nickel (dissolved)	0.500	ND	0.511	102	75 - 125
Potassium (dissolved)	4.00	0.788	4.91	103	75 - 125
Selenium (dissolved)	0.500	ND	0.528	106	75 - 125
Silver (dissolved)	0.500	ND	0.533	107	75 - 125
Sodium (dissolved)	4.00	56.1	61.2 MS-19	129	75 - 125
Thallium (dissolved)	0.500	ND	0.507	101	75 - 125
Vanadium (dissolved)	0.500	ND	0.522	104	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

152033-SM-MW-22A-04022024

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Analysis:	SW-846 6010D
Batch:	B370707	Preparation:	SW-846 3005A Dissolved
% Solids:		Laboratory ID:	B370707-MSD1
Column:		Sample Lab ID:	24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	%	QC LIMITS	
					RPD	REC.
Aluminum (dissolved)	0.500	0.534	99.6	3.38	20	75 - 125
Antimony (dissolved)	0.500	0.512	102	1.09	20	75 - 125
Arsenic (dissolved)	0.500	0.491	98.2	1.69	20	75 - 125
Barium (dissolved)	0.500	0.522	100	2.95	20	75 - 125
Beryllium (dissolved)	0.500	0.511	102	3.59	20	75 - 125
Cadmium (dissolved)	0.500	0.505	101	2.44	20	75 - 125
Calcium (dissolved)	4.00	34.9	82.2	3.18	20	75 - 125
Chromium (dissolved)	0.500	0.504	101	2.95	20	75 - 125
Cobalt (dissolved)	0.500	0.498	99.6	2.52	20	75 - 125
Copper (dissolved)	1.00	1.01	101	2.73	20	75 - 125
Iron (dissolved)	4.00	5.74	98.4	2.88	20	75 - 125
Lead (dissolved)	0.500	0.495	98.9	1.87	20	75 - 125
Magnesium (dissolved)	4.00	9.86	96.0	2.43	20	75 - 125
Manganese (dissolved)	0.500	0.703	98.1	3.06	20	75 - 125
Nickel (dissolved)	0.500	0.499	99.8	2.44	20	75 - 125
Potassium (dissolved)	4.00	4.82	101	1.83	20	75 - 125
Selenium (dissolved)	0.500	0.522	104	1.10	20	75 - 125
Silver (dissolved)	0.500	0.520	104	2.53	20	75 - 125
Sodium (dissolved)	4.00	59.4	83.6	3.01	20	75 - 125
Thallium (dissolved)	0.500	0.499	99.7	1.71	20	75 - 125
Vanadium (dissolved)	0.500	0.509	102	2.62	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

152033-SM-MW-22A-04022024

Laboratory: Pace New England

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Batch: B370707

% Solids:

Column:

Work Order: 24D0735

Project: DW_Dzus Fastener Co. Inc.

Analysis: SW-846 6010D

Preparation: SW-846 3005A Dissolved

Laboratory ID: B370707-MS2

Sample Lab ID: 24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Zinc (dissolved)	1.00	0.0869	1.09	100	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Zinc (dissolved)	1.00	1.07	98.3	1.85	20	75 - 125

POST DIGEST SPIKE SAMPLE RECOVERY

24D0735-04

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Laboratory ID:	B370707-PS1
Batch:	B370707	Analysis:	SW-846 6010D
Preparation:	SW-846 3005A Dissolved	Initial/Final:	4.9 mL / 5 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Aluminum (dissolved)	2.03	0.0347	2.00	99.7	75 - 125
Antimony (dissolved)	1.98	ND	2.00	98.5	75 - 125
Arsenic (dissolved)	1.93	ND	2.00	96.3	75 - 125
Barium (dissolved)	1.98	0.0201	2.00	98.1	75 - 125
Beryllium (dissolved)	2.04	ND	2.00	102	75 - 125
Cadmium (dissolved)	1.97	ND	2.00	98.6	75 - 125
Calcium (dissolved)	46.8	31.0	16.0	98.7	75 - 125
Chromium (dissolved)	1.96	ND	2.00	97.6	75 - 125
Cobalt (dissolved)	1.92	ND	2.00	96.0	75 - 125
Copper (dissolved)	3.97	ND	4.00	99.1	75 - 125
Iron (dissolved)	17.5	1.77	16.0	98.1	75 - 125
Lead (dissolved)	1.90	ND	2.00	94.7	75 - 125
Magnesium (dissolved)	21.8	5.90	16.0	99.3	75 - 125
Manganese (dissolved)	2.17	0.208	2.00	98.1	75 - 125
Nickel (dissolved)	1.92	ND	2.00	95.9	75 - 125
Potassium (dissolved)	17.3	0.772	16.0	103	75 - 125
Selenium (dissolved)	2.01	ND	2.00	101	75 - 125
Silver (dissolved)	1.95	ND	2.00	97.3	75 - 125
Sodium (dissolved)	74.2	55.0	16.0	120	75 - 125
Thallium (dissolved)	2.03	ND	2.00	101	75 - 125
Vanadium (dissolved)	1.99	ND	2.00	99.4	75 - 125

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 3005A Dissolved
Batch:	B370707	Laboratory ID:	B370707-BS1
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Aluminum (dissolved)	0.500	0.493	98.5	80 - 120
Antimony (dissolved)	0.500	0.506	101	80 - 120
Arsenic (dissolved)	0.500	0.484	96.8	80 - 120
Barium (dissolved)	0.500	0.520	104	80 - 120
Beryllium (dissolved)	0.500	0.512	102	80 - 120
Cadmium (dissolved)	0.500	0.511	102	80 - 120
Calcium (dissolved)	4.00	3.97	99.2	80 - 120
Chromium (dissolved)	0.500	0.511	102	80 - 120
Cobalt (dissolved)	0.500	0.513	103	80 - 120
Copper (dissolved)	1.00	0.994	99.4	80 - 120
Iron (dissolved)	4.00	4.01	100	80 - 120
Lead (dissolved)	0.500	0.511	102	80 - 120
Magnesium (dissolved)	4.00	4.06	102	80 - 120
Manganese (dissolved)	0.500	0.504	101	80 - 120
Nickel (dissolved)	0.500	0.514	103	80 - 120
Potassium (dissolved)	4.00	3.95	98.8	80 - 120
Selenium (dissolved)	0.500	0.514	103	80 - 120
Silver (dissolved)	0.500	0.529	106	80 - 120
Sodium (dissolved)	4.00	3.84	95.9	80 - 120
Thallium (dissolved)	0.500	0.494	98.8	80 - 120
Vanadium (dissolved)	0.500	0.511	102	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Aluminum (dissolved)	0.500	0.507	101	2.82	20	80 - 120
Antimony (dissolved)	0.500	0.508	102	0.500	20	80 - 120
Arsenic (dissolved)	0.500	0.490	98.0	1.25	20	80 - 120
Barium (dissolved)	0.500	0.519	104	0.218	20	80 - 120
Beryllium (dissolved)	0.500	0.518	104	1.26	20	80 - 120
Cadmium (dissolved)	0.500	0.510	102	0.210	20	80 - 120
Calcium (dissolved)	4.00	4.03	101	1.56	20	80 - 120
Chromium (dissolved)	0.500	0.509	102	0.368	20	80 - 120
Cobalt (dissolved)	0.500	0.514	103	0.133	20	80 - 120
Copper (dissolved)	1.00	0.989	98.9	0.529	20	80 - 120

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 3005A Dissolved
Batch:	B370707	Laboratory ID:	B370707-BSD1
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Iron (dissolved)	4.00	4.12	103	2.51	20	80 - 120
Lead (dissolved)	0.500	0.511	102	0.120	20	80 - 120
Magnesium (dissolved)	4.00	4.15	104	2.05	20	80 - 120
Manganese (dissolved)	0.500	0.515	103	2.19	20	80 - 120
Nickel (dissolved)	0.500	0.512	102	0.421	20	80 - 120
Potassium (dissolved)	4.00	3.94	98.5	0.312	20	80 - 120
Selenium (dissolved)	0.500	0.521	104	1.26	20	80 - 120
Silver (dissolved)	0.500	0.529	106	0.108	20	80 - 120
Sodium (dissolved)	4.00	3.71	92.8	3.31	20	80 - 120
Thallium (dissolved)	0.500	0.498	99.6	0.886	20	80 - 120
Vanadium (dissolved)	0.500	0.511	102	0.0787	20	80 - 120

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 3005A Dissolved
Batch:	B370707	Laboratory ID:	B370707-BS2
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Zinc (dissolved)	1.00	1.00	100	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Zinc (dissolved)	1.00	1.02	102	1.69	20	80 - 120

SERIAL DILUTION

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Laboratory ID:	B370707-SRL1
Sequence:	B370707	Source:	152033-SM-MW-22A-04022024

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Arsenic	ND	ND	N/A		20.00
Iron	1.81	1.80	0.436		20.00
Lead	ND	ND	N/A		20.00
Magnesium	6.02	5.79	3.91		20.00
Manganese	0.213	0.210	1.38		20.00
Nickel	ND	ND	N/A		20.00
Potassium	ND	ND	N/A		20.00
Silver	ND	ND	N/A		20.00
Sodium	56.1	53.6	4.61		20.00
Aluminum	ND	ND	N/A		20.00
Antimony	ND	ND	N/A		20.00
Selenium	ND	ND	N/A		20.00
Barium	ND	ND	N/A		20.00
Beryllium	ND	ND	N/A		20.00
Cadmium	ND	ND	N/A		20.00
Chromium	ND	ND	N/A		20.00
Cobalt	ND	ND	N/A		20.00
Copper	ND	ND	N/A		20.00
Vanadium	ND	ND	N/A		20.00
Calcium	31.6	31.1	1.76		20.00
Thallium	ND	ND	N/A		20.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Pace New England

Work Order: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Instrument: ICP2

Analyte	MDL	MRL	Units	Method
Aluminum (dissolved)	0.025	0.050	mg/L	SW-846 6010D
Antimony (dissolved)	0.011	0.050	mg/L	SW-846 6010D
Arsenic (dissolved)	0.0050	0.010	mg/L	SW-846 6010D
Barium (dissolved)	0.0098	0.050	mg/L	SW-846 6010D
Beryllium (dissolved)	0.00090	0.0040	mg/L	SW-846 6010D
Cadmium (dissolved)	0.0015	0.0040	mg/L	SW-846 6010D
Calcium (dissolved)	0.21	0.50	mg/L	SW-846 6010D
Chromium (dissolved)	0.0053	0.010	mg/L	SW-846 6010D
Cobalt (dissolved)	0.0027	0.010	mg/L	SW-846 6010D
Copper (dissolved)	0.0095	0.010	mg/L	SW-846 6010D
Iron (dissolved)	0.036	0.050	mg/L	SW-846 6010D
Lead (dissolved)	0.0044	0.010	mg/L	SW-846 6010D
Magnesium (dissolved)	0.016	0.050	mg/L	SW-846 6010D
Manganese (dissolved)	0.0018	0.010	mg/L	SW-846 6010D
Nickel (dissolved)	0.0046	0.010	mg/L	SW-846 6010D
Potassium (dissolved)	0.47	2.0	mg/L	SW-846 6010D
Selenium (dissolved)	0.0085	0.050	mg/L	SW-846 6010D
Silver (dissolved)	0.0044	0.010	mg/L	SW-846 6010D
Sodium (dissolved)	0.38	2.0	mg/L	SW-846 6010D
Thallium (dissolved)	0.016	0.050	mg/L	SW-846 6010D
Vanadium (dissolved)	0.0054	0.010	mg/L	SW-846 6010D
Zinc (dissolved)	0.0080	0.010	mg/L	SW-846 6010D

PREPARATION BATCH SUMMARY

SW-846 6010D

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Batch: B370707 Batch Matrix: Water Preparation: SW-846 3005A Dissolved

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-MW-22B-04022024	24D0735-03	04/11/24 20:00	50.00	50.00
152033-SM-MW-22A-04022024	24D0735-04	04/11/24 20:00	50.00	50.00
152033-SM-MW-13B-04022024	24D0735-05	04/11/24 20:00	50.00	50.00
152033-SM-MW-13A-04022024	24D0735-06	04/11/24 20:00	50.00	50.00
152033-SM-MW-9B-04022024	24D0735-07	04/11/24 20:00	50.00	50.00
152033-SM-MW-9-04022024	24D0735-08	04/11/24 20:00	50.00	50.00
152033-SM-MW-23A-04022024	24D0735-09	04/11/24 20:00	50.00	50.00
152033-SM-MW-23B-04022024	24D0735-10	04/11/24 20:00	50.00	50.00
152033-SM-MW-17-04032024	24D0735-11	04/11/24 20:00	50.00	50.00
152033-SM-MW-15B-04032024	24D0735-12	04/11/24 20:00	50.00	50.00
152033-SM-MW-15A-04032024	24D0735-13	04/11/24 20:00	50.00	50.00
152033-SM-MW-18-04032024	24D0735-14	04/11/24 20:00	50.00	50.00
152033-SM-MW-2-04032024	24D0735-15	04/11/24 20:00	50.00	50.00
152033-SM-MW-1-04032024	24D0735-16	04/11/24 20:00	50.00	50.00
152033-SM-MW-FD-04022024	24D0735-17	04/11/24 20:00	50.00	50.00
Blank	B370707-BLK1	04/05/24 18:14	50.00	50.00
Blank	B370707-BLK2	04/05/24 18:14	50.00	50.00
LCS	B370707-BS1	04/05/24 18:14	50.00	50.00
LCS	B370707-BS2	04/05/24 18:14	50.00	50.00
LCS Dup	B370707-BSD1	04/05/24 18:14	50.00	50.00
LCS Dup	B370707-BSD2	04/05/24 18:14	50.00	50.00
152033-SM-MW-22A-04022024	B370707-MS1	04/05/24 18:14	50.00	50.00
152033-SM-MW-22A-04022024	B370707-MS2	04/05/24 18:14	50.00	50.00
152033-SM-MW-22A-04022024	B370707-MSD1	04/05/24 18:14	50.00	50.00
152033-SM-MW-22A-04022024	B370707-MSD2	04/05/24 18:14	50.00	50.00
152033-SM-MW-22A-04022024	B370707-SRL1	04/05/24 18:14	50.00	50.00

**PREPARATION BENCH SHEET
B370707**

589

Prepared: 04/05/24 18:14

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due	TAT	Spike Amount uL 1 2	Comments	Priority
B370707-BLK1	Blank		50	50					
B370707-BLK2	Blank		50	50				Added 4/19/2024 by	
B370707-BS1	LCS		50	50			250		
B370707-BS2	LCS		50	50			250	Added 4/19/2024 by	
B370707-BSD1	LCS Dup		50	50			250		
B370707-BSD2	LCS Dup		50	50			250	Added 4/19/2024 by	
B370707-MS1	Matrix Spike [24D0735-04]		50	50			250		
B370707-MS2	Matrix Spike [24D0735-04]		50	50			250	Added 4/19/2024 by	
B370707-MSD1	Matrix Spike Dup [24D0735-04]		50	50			250		
B370707-MSD2	Matrix Spike Dup [24D0735-04]		50	50			250	Added 4/19/2024 by	
B370707-PS1	Post Spike [24D0735-04]		4.9	5			100		
B370707-SRL1	Dilution Check [24D0735-04]		50	50					
24D0735-03	152033-SM-MW-22B-04 B 022024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-04	152033-SM-MW-22A-04 B 022024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-05	152033-SM-MW-13B-04 B 022024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-06	152033-SM-MW-13A-04 B 022024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-07	152033-SM-MW-9B-040 A 22024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-08	152033-SM-MW-9-0402 B 2024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-09	152033-SM-MW-23A-04 B 022024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-10	152033-SM-MW-23B-04 B 022024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-11	152033-SM-MW-17-040 A 32024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-12	152033-SM-MW-15B-04 A 032024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	
24D0735-13	152033-SM-MW-15A-04 A 032024		50	50	04/19/24	10		FIELD FILTERED CAT B - Report to MDL	

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B370707

590

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 2	Comments	Priority
24D0735-14	152033-SM-MW-18-040 A 32024	50	50	04/19/24 10		FIELD FILTERED CAT B - Report to MDL	
24D0735-15	152033-SM-MW-2-0403 B 2024	50	50	04/19/24 10		FIELD FILTERED CAT B - Report to MDL	
24D0735-16	152033-SM-MW-1-0403 A 2024	50	50	04/19/24 10		FIELD FILTERED CAT B - Report to MDL	
24D0735-17	152033-SM-MW-FD-040 B 22024	50	50	04/19/24 10		FIELD FILTERED CAT B - Report to MDL	

Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb
Ag															

<u>Standard(s):</u> 2305069 QC Standard CUSTOM BLEND 100 uL 250 uL	<u>Standard ID#</u> <u>Description</u> 24B0767 Ultimate Cup, 50mL Digestion tube 24C0444 Nitric Acid 69-70% 24C0545 1:1 HCl

EPPENDORF #M21639E
SR3 @ 95C

pH <2 VERIFIED @ 2020 AGG 4/11/24

SPIKED: AGG 4/11/24
WITNESSED: KLD 4/11/24

DIGESTION START: 0845
DURATION 2.5 HR

BROUGHT TO VOLUME: NDC 4/16/24
VERIFIED: DML 4/16/24

6010 DISS

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B370707

591

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-17	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Barium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Beryllium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Chromium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Lead 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Manganese 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Magnesium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Nickel 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Selenium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Silver 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Sodium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Thallium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Vanadium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Zinc 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Iron 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Barium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Beryllium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Chromium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Lead 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Manganese 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Selenium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Thallium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Iron 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Potassium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-17	Potassium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Magnesium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Nickel 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Silver 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Sodium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Vanadium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-16	Zinc 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-15	Magnesium 6010 Dissolved	CAT B	-	Report to MDL								

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B370707

592

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-15	Nickel 6010 Dissolved											
24D0735-15	Silver 6010 Dissolved											
24D0735-15	Sodium 6010 Dissolved											
24D0735-15	Vanadium 6010 Dissolved											
24D0735-15	Zinc 6010 Dissolved											
24D0735-14	Antimony 6010 Dissolved											
24D0735-14	Barium 6010 Dissolved											
24D0735-15	Barium 6010 Dissolved											
24D0735-15	Beryllium 6010 Dissolved											
24D0735-15	Chromium 6010 Dissolved											
24D0735-15	Lead 6010 Dissolved											
24D0735-15	Manganese 6010 Dissolved											
24D0735-15	Selenium 6010 Dissolved											
24D0735-15	Thallium 6010 Dissolved											
24D0735-15	Iron 6010 Dissolved											
24D0735-15	Potassium 6010 Dissolved											
24D0735-14	Aluminum 6010 Dissolved											
24D0735-14	Arsenic 6010 Dissolved											
24D0735-14	Beryllium 6010 Dissolved											
24D0735-14	Cadmium 6010 Dissolved											
24D0735-14	Calcium 6010 Dissolved											
24D0735-14	Cobalt 6010 Dissolved											
24D0735-14	Copper 6010 Dissolved											
24D0735-14	Magnesium 6010 Dissolved											
24D0735-14	Nickel 6010 Dissolved											
24D0735-14	Silver 6010 Dissolved											
24D0735-14	Sodium 6010 Dissolved											
24D0735-14	Vanadium 6010 Dissolved											
24D0735-14	Potassium 6010 Dissolved											
24D0735-13	Aluminum 6010 Dissolved											
24D0735-13	Arsenic 6010 Dissolved											
24D0735-13	Beryllium 6010 Dissolved											
24D0735-14	Chromium 6010 Dissolved											
24D0735-14	Lead 6010 Dissolved											
24D0735-14	Manganese 6010 Dissolved											
24D0735-14	Selenium 6010 Dissolved											
24D0735-14	Thallium 6010 Dissolved											
24D0735-14	Zinc 6010 Dissolved											
24D0735-14	Iron 6010 Dissolved											
24D0735-13	Antimony 6010 Dissolved											
24D0735-13	Barium 6010 Dissolved											
24D0735-13	Cadmium 6010 Dissolved											
24D0735-13	Calcium 6010 Dissolved											
24D0735-13	Chromium 6010 Dissolved											
24D0735-13	Cobalt 6010 Dissolved											
24D0735-13	Copper 6010 Dissolved											
24D0735-13	Lead 6010 Dissolved											
24D0735-13	Manganese 6010 Dissolved											
24D0735-13	Magnesium 6010 Dissolved											
24D0735-13	Nickel 6010 Dissolved											
24D0735-13	Selenium 6010 Dissolved											
24D0735-13	Silver 6010 Dissolved											

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B370707

593

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-13	Sodium 6010 Dissolved											
24D0735-13	Thallium 6010 Dissolved											
24D0735-13	Vanadium 6010 Dissolved											
24D0735-13	Zinc 6010 Dissolved											
24D0735-13	Iron 6010 Dissolved											
24D0735-13	Potassium 6010 Dissolved											
24D0735-12	Antimony 6010 Dissolved											
24D0735-12	Aluminum 6010 Dissolved											
24D0735-12	Arsenic 6010 Dissolved											
24D0735-12	Barium 6010 Dissolved											
24D0735-12	Beryllium 6010 Dissolved											
24D0735-12	Cadmium 6010 Dissolved											
24D0735-12	Calcium 6010 Dissolved											
24D0735-12	Chromium 6010 Dissolved											
24D0735-12	Cobalt 6010 Dissolved											
24D0735-12	Copper 6010 Dissolved											
24D0735-12	Lead 6010 Dissolved											
24D0735-12	Manganese 6010 Dissolved											
24D0735-12	Magnesium 6010 Dissolved											
24D0735-12	Nickel 6010 Dissolved											
24D0735-12	Selenium 6010 Dissolved											
24D0735-12	Silver 6010 Dissolved											
24D0735-12	Sodium 6010 Dissolved											
24D0735-12	Vanadium 6010 Dissolved											
24D0735-12	Potassium 6010 Dissolved											
24D0735-11	Aluminum 6010 Dissolved											
24D0735-11	Arsenic 6010 Dissolved											
24D0735-11	Beryllium 6010 Dissolved											
24D0735-11	Chromium 6010 Dissolved											
24D0735-11	Cobalt 6010 Dissolved											
24D0735-11	Copper 6010 Dissolved											
24D0735-12	Thallium 6010 Dissolved											
24D0735-12	Zinc 6010 Dissolved											
24D0735-12	Iron 6010 Dissolved											
24D0735-11	Antimony 6010 Dissolved											
24D0735-11	Barium 6010 Dissolved											
24D0735-11	Cadmium 6010 Dissolved											
24D0735-11	Calcium 6010 Dissolved											
24D0735-10	Magnesium 6010 Dissolved											
24D0735-10	Selenium 6010 Dissolved											
24D0735-10	Thallium 6010 Dissolved											
24D0735-11	Lead 6010 Dissolved											
24D0735-11	Manganese 6010 Dissolved											
24D0735-11	Magnesium 6010 Dissolved											
24D0735-11	Nickel 6010 Dissolved											
24D0735-11	Selenium 6010 Dissolved											
24D0735-11	Silver 6010 Dissolved											
24D0735-11	Sodium 6010 Dissolved											
24D0735-11	Thallium 6010 Dissolved											
24D0735-11	Vanadium 6010 Dissolved											
24D0735-11	Zinc 6010 Dissolved											
24D0735-11	Iron 6010 Dissolved											

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B370707

594

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-11	Potassium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Barium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Beryllium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Chromium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Lead 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Manganese 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Nickel 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Silver 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Sodium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Vanadium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Potassium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Barium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Beryllium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Zinc 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-10	Iron 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Magnesium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Nickel 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Silver 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Sodium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Vanadium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Zinc 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Barium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Chromium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Lead 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Manganese 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Magnesium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Nickel 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Selenium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Silver 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Sodium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Thallium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Vanadium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Zinc 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Iron 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-09	Potassium 6010 Dissolved	CAT B	-	Report to MDL								

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

PREPARATION BENCH SHEET B370707

595

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-08	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Barium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Beryllium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Chromium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Lead 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Manganese 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Selenium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Thallium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Iron 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-08	Potassium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Beryllium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Chromium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Lead 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Manganese 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Magnesium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Nickel 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Selenium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Silver 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Sodium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Thallium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Vanadium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Zinc 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Iron 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-07	Potassium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Antimony 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Aluminum 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Arsenic 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Barium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Beryllium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Cadmium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Calcium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Chromium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Cobalt 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Copper 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Lead 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Manganese 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Magnesium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Nickel 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Selenium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Silver 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Sodium 6010 Dissolved	CAT B	-	Report to MDL								
24D0735-06	Thallium 6010 Dissolved	CAT B	-	Report to MDL								

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B370707

596

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-06	Vanadium 6010 Dissolved	CAT B - Report to MDL										
24D0735-06	Potassium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Aluminum 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Arsenic 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Beryllium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Cadmium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Calcium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Chromium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Cobalt 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Copper 6010 Dissolved	CAT B - Report to MDL										
24D0735-06	Zinc 6010 Dissolved	CAT B - Report to MDL										
24D0735-06	Iron 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Antimony 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Barium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Cobalt 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Lead 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Magnesium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Selenium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Sodium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Lead 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Manganese 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Magnesium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Nickel 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Selenium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Silver 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Sodium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Thallium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Vanadium 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Zinc 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Iron 6010 Dissolved	CAT B - Report to MDL										
24D0735-05	Potassium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Antimony 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Aluminum 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Arsenic 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Barium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Beryllium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Cadmium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Calcium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Chromium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Copper 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Manganese 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Nickel 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Silver 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Thallium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Zinc 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Potassium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Vanadium 6010 Dissolved	CAT B - Report to MDL										
24D0735-04	Iron 6010 Dissolved	CAT B - Report to MDL										
24D0735-03	Antimony 6010 Dissolved	CAT B - Report to MDL										
24D0735-03	Barium 6010 Dissolved	CAT B - Report to MDL										
24D0735-03	Aluminum 6010 Dissolved	CAT B - Report to MDL										
24D0735-03	Arsenic 6010 Dissolved	CAT B - Report to MDL										

Prepared By

Date

Preparation Reviewed By

Date

PREPARATION BENCH SHEET B370707

597

Prepared: 04/11/24 20:00

Printed: 4/22/2024 12:09:35PM

Pace New England

Matrix: Water

Prepared using: METALS - SW-846 3005A Dissolved

Sample ID	Sample Name	Container	AMT			Final Vol (mL)	Due	TAT	Spike Amount		Comments	Priority
			DIGESTED	mL	g L				uL			
									1	2		
24D0735-03	Beryllium 6010 Dissolved											
24D0735-03	Cadmium 6010 Dissolved											
24D0735-03	Calcium 6010 Dissolved											
24D0735-03	Chromium 6010 Dissolved											
24D0735-03	Cobalt 6010 Dissolved											
24D0735-03	Copper 6010 Dissolved											
24D0735-03	Lead 6010 Dissolved											
24D0735-03	Manganese 6010 Dissolved											
24D0735-03	Magnesium 6010 Dissolved											
24D0735-03	Nickel 6010 Dissolved											
24D0735-03	Selenium 6010 Dissolved											
24D0735-03	Silver 6010 Dissolved											
24D0735-03	Sodium 6010 Dissolved											
24D0735-03	Thallium 6010 Dissolved											
24D0735-03	Vanadium 6010 Dissolved											
24D0735-03	Zinc 6010 Dissolved											
24D0735-03	Iron 6010 Dissolved											
24D0735-03	Potassium 6010 Dissolved											

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

S103232

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103232-CAL1	QC		1		23J0970	24D0241	
S103232-CAL2	QC		2		23J0971	24D0241	
S103232-CAL3	QC		3		24D0039	24D0241	
S103232-CAL4	QC		4		24D0038	24D0241	
S103232-CAL5	QC		5		24D0037	24D0241	
S103232-CAL6	QC		6		24D0029	24D0241	
S103232-CAL7	QC		7		24D0035	24D0241	
S103232-CAL8	QC		8		23J0977	24D0241	
S103232-ICV1	QC		9		23K0257	24D0241	
S103232-ICB1	QC		10		23J0970	24D0241	
S103232-LCV1	QC		11		23J0971	24D0241	
S103232-CCV1	QC		12		24D0029	24D0241	
S103232-IFA1	QC		13		24C0959	24D0241	
S103232-IFB1	QC		14		24D0240	24D0241	
S103232-HCV1	QC		15		24D0030	24D0241	
S103232-HCV2	QC		16		24C0960	24D0241	

Samples Loaded By

Date

Data Processed By

Date

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	225941.9
-1.6	15.0	333670.4
-1.2	15.0	459922.3
-0.8	15.0	579070.1
-0.4	15.0	689805.2
0.0	15.0	743982.6
0.4	15.0	743333.3
0.8	15.0	686813.6
1.2	15.0	591262.0
1.6	15.0	466995.9
2.0	15.0	341230.4
0.0	10.0	3395.1
0.0	10.5	17955.3
0.0	11.0	31335.0
0.0	11.5	57278.8
0.0	12.0	92056.4
0.0	12.5	195184.9
0.0	13.0	303783.3
0.0	13.5	401636.7
0.0	14.0	520478.7
0.0	14.5	710547.3
0.0	15.0	766820.6
0.0	15.5	748574.9
0.0	16.0	662830.4
0.0	16.5	426190.9
0.0	17.0	327179.3
0.0	17.5	221415.9
0.0	18.0	158763.5
0.0	18.5	97964.3
0.0	19.0	36394.0
0.0	19.5	15585.5
0.0	20.0	4709.1
-0.8	15.0	601879.9
-0.4	15.0	703386.8
0.0	15.0	756578.5
0.4	15.0	747903.6
0.8	15.0	690720.9
0.0	13.0	326346.1
0.0	13.5	372225.1
0.0	14.0	543805.3
0.0	14.5	721569.0
0.0	15.0	754506.2
0.0	15.5	737806.9
0.0	16.0	670849.1
0.0	16.5	440344.4
0.0	17.0	334004.7

4/16/2024 7:48:48 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 754506.2 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 754506.2 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	5138.3
-6.5	15.0	5929.5
-6.0	15.0	6050.6
-5.5	15.0	6225.6
-5.0	15.0	7557.0
-4.5	15.0	11806.0
-4.0	15.0	20181.6
-3.5	15.0	33327.6
-3.0	15.0	50088.4
-2.5	15.0	64291.4
-2.0	15.0	78133.8
-1.5	15.0	103839.0
-1.0	15.0	159053.2

-0.5	15.0	218726.3
0.0	15.0	231309.6
0.5	15.0	200006.5
1.0	15.0	157651.5
1.5	15.0	106083.0
2.0	15.0	62595.3
2.5	15.0	48238.1
3.0	15.0	40508.1
3.5	15.0	29815.4
4.0	15.0	21905.6
4.5	15.0	18301.6
5.0	15.0	17673.2
5.5	15.0	17435.9
6.0	15.0	17178.6
6.5	15.0	15358.6
7.0	15.0	12439.7

4/16/2024 7:51:12 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 231309.6 for Radial viewing

Analysis Begun

Start Time: 4/16/2024 8:01:05 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0415A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 1

Sample ID: SEQ-CAL1@ Blank-23J0970

Date Collected: 4/16/2024 8:01:06 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

Mean Data: SEQ-CAL1@ Blank-23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4617669.5	23522.74	0.51%	100.0	%
Y radial	166712.5	2235.17	1.34%	100.0	%
Ag 328.068†	-2587.4	32.59	1.26%	[0.00]	mg/L
Al 396.153†	126.2	12.11	9.60%	[0.00]	mg/L
As 188.979†	-10.6	3.22	30.28%	[0.00]	mg/L
B 208.889†	5347.9	33.77	0.63%	[0.00]	mg/L
Ba 233.527†	10.2	2.22	21.72%	[0.00]	mg/L
Be 313.107†	916.1	27.88	3.04%	[0.00]	mg/L
Ca 317.933†	1205.0	15.39	1.28%	[0.00]	mg/L
Cd 228.802†	135.9	6.36	4.68%	[0.00]	mg/L
Co 228.616†	-170.7	0.84	0.49%	[0.00]	mg/L
Cr 267.716†	212.9	7.40	3.48%	[0.00]	mg/L
Cu 327.393†	678.8	29.24	4.31%	[0.00]	mg/L
Fe 238.204†	-126.8	2.17	1.71%	[0.00]	mg/L
K 766.490†	1269.0	52.12	4.11%	[0.00]	mg/L
Mg 285.213†	7.5	1.51	20.24%	[0.00]	mg/L
Mn 257.610†	17.6	4.83	27.42%	[0.00]	mg/L
Mo 202.031†	20.2	4.25	21.02%	[0.00]	mg/L
Na 589.592†	672.2	41.55	6.18%	[0.00]	mg/L
Ni 231.604†	236.7	7.82	3.30%	[0.00]	mg/L
Pb 220.353†	-2.0	6.69	331.36%	[0.00]	mg/L
Sb 206.836†	42.5	1.57	3.70%	[0.00]	mg/L
Se 196.026†	0.9	1.76	206.00%	[0.00]	mg/L
Sn 189.927†	-11.1	2.53	22.90%	[0.00]	mg/L
Ti 337.279†	206.4	5.58	2.71%	[0.00]	mg/L

Tl 351.924†	257.9	14.18	5.50%	[0.00]	mg/L
V 290.880†	4980.1	100.45	2.02%	[0.00]	mg/L
Zn 206.200†	94.0	6.63	7.05%	[0.00]	mg/L
Zr 343.823†	670.3	22.77	3.40%	[0.00]	mg/L

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 8:43:38 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0415A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 1

Sample ID: SEQ-CAL1@ Blank-23J0970

Date Collected: 4/16/2024 8:43:49 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

Mean Data: SEQ-CAL1@ Blank-23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4786842.6	65069.24	1.36%	103.7	%
Y radial	178475.4	310.71	0.17%	107.1	%
Ag 328.068†	-2573.3	120.83	4.70%	[0.00]	mg/L
Al 396.153†	105.7	42.99	40.67%	[0.00]	mg/L
As 188.979†	-12.0	2.62	21.73%	[0.00]	mg/L
B 208.889†	2137.1	17.12	0.80%	[0.00]	mg/L
Ba 233.527†	13.0	11.88	91.20%	[0.00]	mg/L
Be 313.107†	786.4	16.69	2.12%	[0.00]	mg/L
Ca 317.933†	1184.0	4.51	0.38%	[0.00]	mg/L
Cd 228.802†	123.6	7.34	5.93%	[0.00]	mg/L
Co 228.616†	-155.8	1.98	1.27%	[0.00]	mg/L
Cr 267.716†	194.5	9.28	4.77%	[0.00]	mg/L
Cu 327.393†	598.3	77.60	12.97%	[0.00]	mg/L
Fe 238.204†	-115.7	1.44	1.24%	[0.00]	mg/L
K 766.490†	1038.9	38.18	3.68%	[0.00]	mg/L
Mg 285.213†	5.8	3.07	52.77%	[0.00]	mg/L
Mn 257.610†	14.2	2.28	16.05%	[0.00]	mg/L
Mo 202.031†	20.9	2.58	12.32%	[0.00]	mg/L
Na 589.592†	535.5	28.52	5.33%	[0.00]	mg/L
Ni 231.604†	224.6	11.60	5.17%	[0.00]	mg/L
Pb 220.353†	5.0	5.09	102.26%	[0.00]	mg/L
Sb 206.836†	37.8	1.36	3.59%	[0.00]	mg/L
Se 196.026†	-1.4	4.25	299.46%	[0.00]	mg/L
Sn 189.927†	-6.8	4.94	72.85%	[0.00]	mg/L
Ti 337.279†	191.5	2.72	1.42%	[0.00]	mg/L
Tl 351.924†	193.3	22.67	11.73%	[0.00]	mg/L
V 290.880†	4698.5	111.61	2.38%	[0.00]	mg/L
Zn 206.200†	104.3	1.67	1.60%	[0.00]	mg/L
Zr 343.823†	660.8	48.07	7.28%	[0.00]	mg/L

User canceled analysis.

=====
Analysis Begun

Start Time: 4/16/2024 9:25:34 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0415A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 1

Sample ID: SEQ-CAL1@ Blank-23J0970

Date Collected: 4/16/2024 9:25:35 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:
=====

Mean Data: SEQ-CAL1@ Blank-23J0970

Mean Corrected					Calib
Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y axial	4757959.1	34761.14	0.73%	100.0	%
Y radial	175653.0	1944.73	1.11%	100.0	%
Ag 328.068†	-2602.4	32.01	1.23%	[0.00]	mg/L
Al 396.153†	110.1	12.43	11.29%	[0.00]	mg/L
As 188.979†	-18.9	0.91	4.83%	[0.00]	mg/L
B 208.889†	1108.0	6.35	0.57%	[0.00]	mg/L
Ba 233.527†	11.5	6.62	57.56%	[0.00]	mg/L
Be 313.107†	908.0	19.14	2.11%	[0.00]	mg/L
Ca 317.933†	1250.0	15.04	1.20%	[0.00]	mg/L
Cd 228.802†	128.9	3.55	2.76%	[0.00]	mg/L
Co 228.616†	-154.2	8.45	5.48%	[0.00]	mg/L
Cr 267.716†	198.6	5.81	2.93%	[0.00]	mg/L
Cu 327.393†	426.1	27.13	6.37%	[0.00]	mg/L
Fe 238.204†	-127.5	3.47	2.72%	[0.00]	mg/L
K 766.490†	1216.6	39.29	3.23%	[0.00]	mg/L
Mg 285.213†	2.3	4.77	210.36%	[0.00]	mg/L
Mn 257.610†	14.6	1.80	12.35%	[0.00]	mg/L
Mo 202.031†	19.5	4.44	22.73%	[0.00]	mg/L
Na 589.592†	590.7	10.91	1.85%	[0.00]	mg/L
Ni 231.604†	231.8	6.62	2.85%	[0.00]	mg/L
Pb 220.353†	-7.7	5.01	65.43%	[0.00]	mg/L
Sb 206.836†	34.9	2.90	8.31%	[0.00]	mg/L
Se 196.026†	-1.9	4.33	229.30%	[0.00]	mg/L
Sn 189.927†	-7.9	0.71	8.98%	[0.00]	mg/L
Ti 337.279†	203.7	5.72	2.81%	[0.00]	mg/L
Tl 351.924†	306.4	69.93	22.82%	[0.00]	mg/L
V 290.880†	5205.6	63.24	1.21%	[0.00]	mg/L
Zn 206.200†	60.2	2.43	4.03%	[0.00]	mg/L
Zr 343.823†	690.1	60.86	8.82%	[0.00]	mg/L

=====

Sequence No.: 2

Autosampler Location: 2

Sample ID: SEQ-CAL2@ 23J0971

Date Collected: 4/16/2024 9:31:05 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time: 110

Auto Dilution Factor: 1
=====

Mean Data: SEQ-CAL2@ 23J0971

Mean Corrected					Calib
Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y axial	4754631.7	33464.07	0.70%	99.93	%
Y radial	177861.7	1360.88	0.77%	101.3	%
Ag 328.068†	2529.4	13.73	0.54%	[0.01]	mg/L

Al 396.153†	159.3	31.39	19.71%	[0.05]	mg/L
As 188.979†	28.0	5.89	21.05%	[0.01]	mg/L
B 208.889†	1466.5	21.80	1.49%	[0.1]	mg/L
Ba 233.527†	7973.1	24.66	0.31%	[0.05]	mg/L
Be 313.107†	1641.5	28.09	1.71%	[0.004]	mg/L
Ca 317.933†	3234.9	30.12	0.93%	[0.5]	mg/L
Cd 228.802†	425.7	10.53	2.47%	[0.004]	mg/L
Co 228.616†	926.0	11.43	1.23%	[0.01]	mg/L
Cr 267.716†	1180.0	14.21	1.20%	[0.01]	mg/L
Cu 327.393†	1545.3	43.13	2.79%	[0.01]	mg/L
Fe 238.204†	117.4	5.92	5.04%	[0.05]	mg/L
Mg 285.213†	407.6	5.19	1.27%	[0.05]	mg/L
Mn 257.610†	236.0	2.86	1.21%	[0.01]	mg/L
Mo 202.031†	1143.8	11.04	0.97%	[0.05]	mg/L
Ni 231.604†	358.8	2.43	0.68%	[0.01]	mg/L
Pb 220.353†	119.0	3.32	2.79%	[0.01]	mg/L
Sb 206.836†	239.8	6.62	2.76%	[0.05]	mg/L
Se 196.026†	88.6	5.43	6.13%	[0.05]	mg/L
Sn 189.927†	756.4	7.42	0.98%	[0.1]	mg/L
Ti 337.279†	341.9	15.34	4.48%	[0.02]	mg/L
Tl 351.924†	441.6	28.67	6.49%	[0.05]	mg/L
V 290.880†	1812.2	41.91	2.31%	[0.01]	mg/L
Zn 206.200†	818.4	10.91	1.33%	[0.01]	mg/L

Sequence No.: 3

Sample ID: SEQ-CAL3@ 23J0972

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 3

Date Collected: 4/16/2024 9:36:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CAL3@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y axial	4689041.8	25919.21	0.55%	98.55 %
Y radial	176442.9	1755.39	0.99%	100.4 %
Ag 328.068†	17791.5	296.38	1.67%	[0.0625] mg/L
Al 396.153†	939.1	19.75	2.10%	[0.25] mg/L
As 188.979†	365.8	4.35	1.19%	[0.125] mg/L
B 208.889†	1959.4	23.49	1.20%	[0.125] mg/L
Ba 233.527†	20530.8	364.22	1.77%	[0.125] mg/L
Be 313.107†	51621.0	355.57	0.69%	[0.125] mg/L
Cd 228.802†	13523.4	231.23	1.71%	[0.125] mg/L
Co 228.616†	12064.6	237.98	1.97%	[0.125] mg/L
Cr 267.716†	15202.3	271.90	1.79%	[0.125] mg/L
Cu 327.393†	18933.5	319.94	1.69%	[0.125] mg/L
Fe 238.204†	292.2	4.48	1.53%	[0.125] mg/L
Mg 285.213†	2087.5	23.46	1.12%	[0.25] mg/L
Mn 257.610†	2960.3	37.74	1.27%	[0.125] mg/L
Mo 202.031†	2918.4	6.40	0.22%	[0.125] mg/L
Ni 231.604†	4659.2	31.74	0.68%	[0.125] mg/L
Pb 220.353†	1478.0	11.38	0.77%	[0.125] mg/L
Sb 206.836†	718.9	4.91	0.68%	[0.125] mg/L
Se 196.026†	217.9	0.86	0.40%	[0.125] mg/L
Sn 189.927†	1013.5	8.84	0.87%	[0.125] mg/L
Ti 337.279†	2170.3	25.92	1.19%	[0.125] mg/L
Tl 351.924†	563.2	52.99	9.41%	[0.0625] mg/L
V 290.880†	25900.5	508.46	1.96%	[0.125] mg/L
Zn 206.200†	8464.1	189.67	2.24%	[0.125] mg/L
Zr 343.823†	47752.1	500.44	1.05%	[0.125] mg/L

Sequence No.: 4

Sample ID: SEQ-CAL4@ 23J0973

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 4

Date Collected: 4/16/2024 9:42:05 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CAL4@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4649587.5	18223.66	0.39%	97.72	%
Y radial	177088.6	2969.28	1.68%	100.8	%
Ag 328.068†	71962.4	439.72	0.61%	[0.25]	mg/L
Al 396.153†	3792.2	63.78	1.68%	[1]	mg/L
As 188.979†	1481.0	9.72	0.66%	[0.5]	mg/L
B 208.889†	8279.3	27.09	0.33%	[0.5]	mg/L
Ba 233.527†	82589.3	279.67	0.34%	[0.5]	mg/L
Be 313.107†	208182.7	596.14	0.29%	[0.5]	mg/L
Ca 317.933†	6767.8	113.77	1.68%	[1]	mg/L
Cd 228.802†	54215.5	238.78	0.44%	[0.5]	mg/L
Co 228.616†	49228.8	179.82	0.37%	[0.5]	mg/L
Cr 267.716†	61096.1	216.09	0.35%	[0.5]	mg/L
Cu 327.393†	78889.7	651.31	0.83%	[0.5]	mg/L
Fe 238.204†	1171.0	18.87	1.61%	[0.5]	mg/L
Mg 285.213†	8386.9	131.80	1.57%	[1]	mg/L
Mn 257.610†	11959.8	201.56	1.69%	[0.5]	mg/L
Mo 202.031†	12029.9	92.75	0.77%	[0.5]	mg/L
Ni 231.604†	19169.8	40.53	0.21%	[0.5]	mg/L
Pb 220.353†	6056.0	29.65	0.49%	[0.5]	mg/L
Sb 206.836†	2881.6	24.37	0.85%	[0.5]	mg/L
Se 196.026†	883.2	5.58	0.63%	[0.5]	mg/L
Sn 189.927†	4098.1	19.63	0.48%	[0.5]	mg/L
Ti 337.279†	8770.3	151.39	1.73%	[0.5]	mg/L
Tl 351.924†	2678.8	60.22	2.25%	[0.25]	mg/L
V 290.880†	104348.9	430.53	0.41%	[0.5]	mg/L
Zn 206.200†	34540.6	53.39	0.15%	[0.5]	mg/L
Zr 343.823†	203155.7	709.14	0.35%	[0.5]	mg/L

Sequence No.: 5

Sample ID: SEQ-CAL5@ 23J0974

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 9:47:37 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CAL5@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4720269.2	29953.11	0.63%	99.21	%
Y radial	175317.7	1074.26	0.61%	99.81	%
Ag 328.068†	140100.8	1942.04	1.39%	[0.5]	mg/L
Al 396.153†	7591.3	44.30	0.58%	[2]	mg/L
As 188.979†	2936.3	25.58	0.87%	[1]	mg/L
B 208.889†	16557.7	141.62	0.86%	[1]	mg/L
Ba 233.527†	162615.2	347.12	0.21%	[1]	mg/L
Be 313.107†	426664.2	1131.48	0.27%	[1]	mg/L
Ca 317.933†	13728.7	92.93	0.68%	[2]	mg/L
Cd 228.802†	106793.8	275.98	0.26%	[1]	mg/L
Co 228.616†	96723.8	207.41	0.21%	[1]	mg/L
Cr 267.716†	120491.6	332.58	0.28%	[1]	mg/L
Cu 327.393†	156639.2	744.59	0.48%	[1]	mg/L
Fe 238.204†	2333.9	18.55	0.79%	[1]	mg/L
K 766.490†	6190.0	71.57	1.16%	[2]	mg/L
Mg 285.213†	16892.8	103.65	0.61%	[2]	mg/L
Mn 257.610†	23647.7	144.09	0.61%	[1]	mg/L
Mo 202.031†	23843.1	82.71	0.35%	[1]	mg/L
Na 589.592†	21622.8	118.55	0.55%	[2]	mg/L
Ni 231.604†	37666.8	113.95	0.30%	[1]	mg/L
Pb 220.353†	11778.9	88.10	0.75%	[1]	mg/L
Sb 206.836†	5664.9	38.49	0.68%	[1]	mg/L
Se 196.026†	1735.3	11.43	0.66%	[1]	mg/L
Sn 189.927†	8090.3	51.91	0.64%	[1]	mg/L
Ti 337.279†	17742.5	99.43	0.56%	[1]	mg/L

Tl 351.924†	5402.3	88.20	1.63%	[0.5] mg/L
V 290.880†	204811.8	723.47	0.35%	[1] mg/L
Zn 206.200†	68036.2	264.17	0.39%	[1] mg/L
Zr 343.823†	405766.3	3998.75	0.99%	[1] mg/L

Sequence No.: 6

Sample ID: SEQ-CAL6@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 6

Date Collected: 4/16/2024 9:53:11 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CAL6@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4606507.2	31300.38	0.68%	96.82	%
Y radial	176859.3	2095.42	1.18%	100.7	%
Ag 328.068†	665921.0	2886.19	0.43%	[2.5]	mg/L
Al 396.153†	35984.3	14.37	0.04%	[10]	mg/L
As 188.979†	14451.2	105.94	0.73%	[5]	mg/L
B 208.889†	82841.2	451.46	0.54%	[5]	mg/L
Ba 233.527†	785641.2	6106.58	0.78%	[5]	mg/L
Be 313.107†	1996164.5	47069.01	2.36%	[5]	mg/L
Ca 317.933†	63704.2	316.70	0.50%	[10]	mg/L
Cd 228.802†	519227.5	3126.60	0.60%	[5]	mg/L
Co 228.616†	465824.8	3768.71	0.81%	[5]	mg/L
Cr 267.716†	587216.6	3881.65	0.66%	[5]	mg/L
Cu 327.393†	778437.9	472.03	0.06%	[5]	mg/L
Fe 238.204†	10777.3	35.97	0.33%	[5]	mg/L
K 766.490†	29475.9	81.64	0.28%	[10]	mg/L
Mg 285.213†	78525.0	328.97	0.42%	[10]	mg/L
Mn 257.610†	112892.7	395.73	0.35%	[5]	mg/L
Mo 202.031†	115289.7	700.01	0.61%	[5]	mg/L
Na 589.592†	102962.7	2397.20	2.33%	[10]	mg/L
Ni 231.604†	181443.5	1194.86	0.66%	[5]	mg/L
Pb 220.353†	56253.3	307.11	0.55%	[5]	mg/L
Sb 206.836†	27809.9	280.30	1.01%	[5]	mg/L
Se 196.026†	8562.8	80.34	0.94%	[5]	mg/L
Sn 189.927†	39107.5	318.04	0.81%	[5]	mg/L
Ti 337.279†	85466.1	143.34	0.17%	[5]	mg/L
Tl 351.924†	26496.1	128.17	0.48%	[2.5]	mg/L
V 290.880†	1005535.4	7308.21	0.73%	[5]	mg/L
Zn 206.200†	329574.0	3055.77	0.93%	[5]	mg/L
Zr 343.823†	1971688.1	11797.76	0.60%	[5]	mg/L

Sequence No.: 7

Sample ID: SEQ-CAL7@ 23J0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 7

Date Collected: 4/16/2024 9:58:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CAL7@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4501586.6	20360.34	0.45%	94.61	%
Y radial	173941.4	2900.07	1.67%	99.03	%
Ag 328.068†	1340895.8	11002.65	0.82%	[5]	mg/L
Al 396.153†	73690.6	1145.61	1.55%	[20]	mg/L
As 188.979†	29231.1	231.78	0.79%	[10]	mg/L
B 208.889†	167036.4	1006.41	0.60%	[10]	mg/L
Ba 233.527†	1557640.2	7761.89	0.50%	[10]	mg/L
Be 313.107†	4032578.6	61775.34	1.53%	[10]	mg/L
Ca 317.933†	128496.6	2127.19	1.66%	[20]	mg/L
Cd 228.802†	1028001.7	5989.01	0.58%	[10]	mg/L
Co 228.616†	925819.9	4901.97	0.53%	[10]	mg/L

Cr 267.716†	1174243.7	6443.63	0.55%	[10]	mg/L
Cu 327.393†	1590035.8	10933.03	0.69%	[10]	mg/L
Fe 238.204†	21615.2	339.49	1.57%	[10]	mg/L
K 766.490†	59938.6	894.07	1.49%	[20]	mg/L
Mg 285.213†	158986.9	2481.74	1.56%	[20]	mg/L
Mn 257.610†	226427.9	3757.80	1.66%	[10]	mg/L
Mo 202.031†	230795.2	1128.40	0.49%	[10]	mg/L
Na 589.592†	208382.8	3214.72	1.54%	[20]	mg/L
Ni 231.604†	360039.4	1934.39	0.54%	[10]	mg/L
Pb 220.353†	112898.8	689.79	0.61%	[10]	mg/L
Sb 206.836†	56627.5	446.59	0.79%	[10]	mg/L
Se 196.026†	17309.4	137.78	0.80%	[10]	mg/L
Sn 189.927†	78520.1	496.64	0.63%	[10]	mg/L
Ti 337.279†	172167.5	2472.51	1.44%	[10]	mg/L
Tl 351.924†	54558.2	424.48	0.78%	[5]	mg/L
V 290.880†	2025536.0	12378.30	0.61%	[10]	mg/L
Zn 206.200†	652929.2	2987.51	0.46%	[10]	mg/L
Zr 343.823†	3971778.9	24774.95	0.62%	[10]	mg/L

Sequence No.: 8

Sample ID: SEQ-CAL8@ 23J0977

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 8

Date Collected: 4/16/2024 10:04:38 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CAL8@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4552402.3	10128.50	0.22%	95.68	%
Y radial	178554.6	3625.52	2.03%	101.7	%
Al 396.153†	179107.8	1580.31	0.88%	[50]	mg/L
Ca 317.933†	321139.0	4741.45	1.48%	[50]	mg/L
Fe 238.204†	54108.2	790.79	1.46%	[25]	mg/L
K 766.490†	150156.2	1318.11	0.88%	[50]	mg/L
Mg 285.213†	392975.4	4229.12	1.08%	[50]	mg/L
Na 589.592†	525690.9	15875.95	3.02%	[50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	268000	0.00000	0.999982	
Al 396.153	7	Lin Thru 0	0.0	3597	0.00000	0.999951	
As 188.979	6	Lin Thru 0	0.0	2917	0.00000	0.999990	
B 208.889	6	Lin Thru 0	0.0	16680	0.00000	0.999994	
Ba 233.527	6	Lin Thru 0	0.0	156100	0.00000	0.999983	
Be 313.107	6	Lin Thru 0	0.0	402700	0.00000	0.999977	
Ca 317.933	6	Lin Thru 0	0.0	6422	0.00000	0.999995	
Cd 228.802	6	Lin Thru 0	0.0	103100	0.00000	0.999984	
Co 228.616	6	Lin Thru 0	0.0	92740	0.00000	0.999986	
Cr 267.716	6	Lin Thru 0	0.0	117500	0.00000	0.999996	
Cu 327.393	6	Lin Thru 0	0.0	158300	0.00000	0.999965	
Fe 238.204	7	Lin Thru 0	0.0	2164	0.00000	0.999994	
K 766.490	4	Lin Thru 0	0.0	3001	0.00000	0.999994	
Mg 285.213	7	Lin Thru 0	0.0	7872	0.00000	0.999988	
Mn 257.610	6	Lin Thru 0	0.0	22640	0.00000	0.999988	
Mo 202.031	6	Lin Thru 0	0.0	23080	0.00000	0.999994	
Na 589.592	4	Lin Thru 0	0.0	10490	0.00000	0.999989	
Ni 231.604	6	Lin Thru 0	0.0	36080	0.00000	0.999983	
Pb 220.353	6	Lin Thru 0	0.0	11290	0.00000	0.999986	
Sb 206.836	6	Lin Thru 0	0.0	5643	0.00000	0.999974	
Se 196.026	6	Lin Thru 0	0.0	1727	0.00000	0.999990	
Sn 189.927	6	Lin Thru 0	0.0	7849	0.00000	0.999993	
Ti 337.279	6	Lin Thru 0	0.0	17200	0.00000	0.999991	
Tl 351.924	6	Lin Thru 0	0.0	10850	0.00000	0.999931	
V 290.880	6	Lin Thru 0	0.0	202300	0.00000	0.999994	
Zn 206.200	6	Lin Thru 0	0.0	65450	0.00000	0.999983	

ALL PASSED - COEF > 0.998 -
HNN 041624

Method: ICP2 111223-IEC

Page 6

Date: 4/16/2024 10:06:22 AM

Zr 343.823	5	Lin Thru 0	0.0	396700	0.00000	0.999993

=====

Analysis Begun

Start Time: 4/16/2024 10:24:46 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0415A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/16/2024 10:24:47 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 10:25:38 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0415A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Method Loaded

Method Name: ICP2 111223-IEC

Method Last Saved: 4/15/2024 10:48:21 AM

IEC File: 111223-IEC.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 11
 Sample ID: RINSE
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time:

Autosampler Location: 7
 Date Collected: 4/16/2024 10:25:39 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4783817.7	100.5	%	1.48			1.48%
Y radial	178857.8	101.8	%	1.06			1.05%
Ag 328.068†	275.3	0.0010	mg/L	0.00030	0.0010	mg/L	0.00030 29.35%
Al 396.153†	-5.5	-0.0015	mg/L	0.00702	-0.0015	mg/L	0.00702 457.03%
As 188.979†	-3.6	-0.0012	mg/L	0.00190	-0.0012	mg/L	0.00190 152.79%
B 208.889†	-247.4	-0.0148	mg/L	0.00115	-0.0148	mg/L	0.00115 7.78%
Ba 233.527†	12.8	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006 76.46%
Be 313.107†	17.0	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003 79.91%
Ca 317.933†	35.7	0.0056	mg/L	0.00228	0.0056	mg/L	0.00228 40.99%
Cd 228.802†	11.0	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007 53.57%
Co 228.616†	-3.9	-0.0000	mg/L	0.00007	-0.0000	mg/L	0.00007 179.19%
Cr 267.716†	-0.5	-0.0000	mg/L	0.00002	-0.0000	mg/L	0.00002 465.76%
Cu 327.393†	-228.5	-0.0014	mg/L	0.00054	-0.0014	mg/L	0.00054 37.12%
Fe 238.204†	6.0	0.0028	mg/L	0.00058	0.0028	mg/L	0.00058 21.14%
K 766.490†	58.1	0.0194	mg/L	0.02903	0.0194	mg/L	0.02903 149.97%
Mg 285.213†	12.2	0.0016	mg/L	0.00028	0.0016	mg/L	0.00028 17.91%
Mn 257.610†	5.6	0.0002	mg/L	0.00030	0.0002	mg/L	0.00030 120.94%
Mo 202.031†	3.9	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005 30.43%
Na 589.592†	-52.6	-0.0050	mg/L	0.00258	-0.0050	mg/L	0.00258 51.42%
Ni 231.604†	1.5	0.0000	mg/L	0.00024	0.0000	mg/L	0.00024 497.34%
Pb 220.353†	9.0	0.0008	mg/L	0.00041	0.0008	mg/L	0.00041 51.44%
Sb 206.836†	4.3	0.0008	mg/L	0.00025	0.0008	mg/L	0.00025 32.61%
Se 196.026†	0.2	0.0001	mg/L	0.00147	0.0001	mg/L	0.00147 >999.9%
Sn 189.927†	0.3	0.0000	mg/L	0.00041	0.0000	mg/L	0.00041 >999.9%
Ti 337.279†	-0.8	-0.0000	mg/L	0.00021	-0.0000	mg/L	0.00021 479.09%
Tl 351.924†	-113.1	-0.0104	mg/L	0.00592	-0.0104	mg/L	0.00592 56.70%
V 290.880†	281.5	0.0014	mg/L	0.00054	0.0014	mg/L	0.00054 39.15%
Zn 206.200†	17.1	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005 19.23%
Zr 343.823†	12.0	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013 443.89%

User canceled analysis.

Instrument Name:		ICP2					610	
Date	Date	Time	Analyte Name	Conc (Samp)	Samp Units	True Value	Rel. Error(%)	
2/4/2024	4/16/2024	9:31:05 AM	Yaxial		%			
2/4/2024	4/16/2024	9:31:05 AM	Yradial		%	CAL-2		
2/4/2024	4/16/2024	9:31:05 AM	Ag 328.068	0.009463364	mg/L	0.01	-5.37	Ag
2/4/2024	4/16/2024	9:31:05 AM	Al 396.153	0.042291168	mg/L	0.05	-15.42	Al
2/4/2024	4/16/2024	9:31:05 AM	As 188.979	0.009394575	mg/L	0.01	-6.05	As
2/4/2024	4/16/2024	9:31:05 AM	B 208.889	0.085457387	mg/L	0.1	-14.54	B
2/4/2024	4/16/2024	9:31:05 AM	Ba 233.527	0.051097549	mg/L	0.05	2.20	Ba
2/4/2024	4/16/2024	9:31:05 AM	Be 313.107	0.004038385	mg/L	0.004	0.96	Be
2/4/2024	4/16/2024	9:31:05 AM	Ca 317.933	0.503719672	mg/L	0.5	0.74	Ca
2/4/2024	4/16/2024	9:31:05 AM	Cd 228.802	0.00395558	mg/L	0.004	-1.11	Cd
2/4/2024	4/16/2024	9:31:05 AM	Co 228.616	0.010084913	mg/L	0.01	0.85	Co
2/4/2024	4/16/2024	9:31:05 AM	Cr 267.716	0.010047244	mg/L	0.01	0.47	Cr
2/4/2024	4/16/2024	9:31:05 AM	Cu 327.393	0.009760563	mg/L	0.01	-2.39	Cu
2/4/2024	4/16/2024	9:31:05 AM	Fe 238.204	0.054290098	mg/L	0.05	8.58	Fe
2/4/2024	4/16/2024	9:31:05 AM	Mg 285.213	0.051679198	mg/L	0.05	3.36	Mg
2/4/2024	4/16/2024	9:31:05 AM	Mn 257.610	0.010428086	mg/L	0.01	4.28	Mn
2/4/2024	4/16/2024	9:31:05 AM	Mo 202.031	0.049551421	mg/L	0.05	-0.90	Mo
2/4/2024	4/16/2024	9:31:05 AM	Ni 231.604	0.009928104	mg/L	0.01	-0.72	Ni
2/4/2024	4/16/2024	9:31:05 AM	Pb 220.353	0.010609273	mg/L	0.01	6.09	Pb
2/4/2024	4/16/2024	9:31:05 AM	Sb 206.836	0.042957136	mg/L	0.05	-14.09	Sb
2/4/2024	4/16/2024	9:31:05 AM	Se 196.026	0.051361938	mg/L	0.05	2.72	Se
2/4/2024	4/16/2024	9:31:05 AM	Sn 189.927	0.096376645	mg/L	0.1	-3.62	Sn
2/4/2024	4/16/2024	9:31:05 AM	Ti 337.279	0.019884024	mg/L	0.02	-0.58	Ti
2/4/2024	4/16/2024	9:31:05 AM	Tl 351.924	0.040633476	mg/L	0.05	-18.73	Tl
2/4/2024	4/16/2024	9:31:05 AM	V 290.880	0.008943053	mg/L	0.01	-10.57	V
2/4/2024	4/16/2024	9:31:05 AM	Zn 206.200	0.012529677	mg/L	0.01	25.30	Zn
2/4/2024	4/16/2024	9:53:11 AM	Yaxial		%			
2/4/2024	4/16/2024	9:53:11 AM	Yradial		%	CAL-5		
2/4/2024	4/16/2024	9:53:11 AM	Ag 328.068	2.463574208	mg/L	2.5	-1	Ag
2/4/2024	4/16/2024	9:53:11 AM	Al 396.153	9.73918596	mg/L	10	-3	Al
2/4/2024	4/16/2024	9:53:11 AM	As 188.979	4.946540186	mg/L	5	-1	As
2/4/2024	4/16/2024	9:53:11 AM	B 208.889	4.716923378	mg/L	5	-6	B
2/4/2024	4/16/2024	9:53:11 AM	Ba 233.527	5.041181077	mg/L	5	1	Ba
2/4/2024	4/16/2024	9:53:11 AM	Be 313.107	4.933910935	mg/L	5	-1	Be
2/4/2024	4/16/2024	9:53:11 AM	Ca 317.933	9.919656389	mg/L	10	-1	Ca
2/4/2024	4/16/2024	9:53:11 AM	Cd 228.802	4.949141172	mg/L	5	-1	Cd
2/4/2024	4/16/2024	9:53:11 AM	Co 228.616	5.02293937	mg/L	5	0	Co
2/4/2024	4/16/2024	9:53:11 AM	Cr 267.716	5.002007342	mg/L	5	0	Cr
2/4/2024	4/16/2024	9:53:11 AM	Cu 327.393	4.934559319	mg/L	5	-1	Cu
2/4/2024	4/16/2024	9:53:11 AM	Fe 238.204	5.006841951	mg/L	5	0	Fe
2/4/2024	4/16/2024	9:53:11 AM	K 766.490	9.82343235	mg/L	10	-2	K
2/4/2024	4/16/2024	9:53:11 AM	Mg 285.213	9.950166759	mg/L	10	0	Mg
2/4/2024	4/16/2024	9:53:11 AM	Mn 257.610	4.986663552	mg/L	5	0	Mn
2/4/2024	4/16/2024	9:53:11 AM	Mo 202.031	4.994516274	mg/L	5	0	Mo
2/4/2024	4/16/2024	9:53:11 AM	Na 589.592	9.811234068	mg/L	10	-2	Na
2/4/2024	4/16/2024	9:53:11 AM	Ni 231.604	5.028221502	mg/L	5	1	Ni
2/4/2024	4/16/2024	9:53:11 AM	Pb 220.353	4.987483983	mg/L	5	0	Pb
2/4/2024	4/16/2024	9:53:11 AM	Sb 206.836	4.884652394	mg/L	5	-2	Sb
2/4/2024	4/16/2024	9:53:11 AM	Se 196.026	4.966024694	mg/L	5	-1	Se
2/4/2024	4/16/2024	9:53:11 AM	Sn 189.927	4.977705012	mg/L	5	0	Sn
2/4/2024	4/16/2024	9:53:11 AM	Ti 337.279	4.967055123	mg/L	5	-1	Ti
2/4/2024	4/16/2024	9:53:11 AM	Tl 351.924	2.401081752	mg/L	2.5	-4	Tl
2/4/2024	4/16/2024	9:53:11 AM	V 290.880	4.970302038	mg/L	5	-1	V
2/4/2024	4/16/2024	9:53:11 AM	Zn 206.200	5.061561847	mg/L	5	1	Zn
2/4/2024	4/16/2024	9:53:11 AM	Zr 343.823	4.970108979	mg/L	5	-1	Zr

NO ZN - HNN 041624

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Analysis Begun

Start Time: 4/16/2024 10:40:01 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb
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Method Loaded

Method Name: ICP2 111223-IEC

Method Last Saved: 4/16/2024 10:29:09 AM

IEC File: 111223-IEC.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

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Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/16/2024 10:40:01 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

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Replicate Data: SEQ-ICV@ 23K0257

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Y radial	186984.2	186984.2	106.5	%		10:41:13 AM
1	Al 396.153†	8230.3	7621.4	2.012	mg/L	2.012 mg/L	10:41:15 AM
1	Be 313.107†	844282.3	792211.1	1.958	mg/L	1.958 mg/L	10:41:13 AM
1	Ca 317.933†	14977.3	12819.6	1.996	mg/L	1.996 mg/L	10:41:15 AM
1	Fe 238.204†	4614.8	4462.7	2.073	mg/L	2.073 mg/L	10:41:15 AM
1	K 766.490†	7385.8	5721.6	1.907	mg/L	1.907 mg/L	10:41:15 AM
1	Mg 285.213†	17291.7	16241.6	2.054	mg/L	2.054 mg/L	10:41:15 AM
1	Mn 257.610†	47004.2	44141.1	1.950	mg/L	1.950 mg/L	10:41:15 AM

1	Na 589.592†	21000.2	19136.8	1.824 mg/L	1.824 mg/L	10:41:15 AM
1	Ti 337.279†	36043.6	33655.7	1.956 mg/L	1.956 mg/L	10:41:15 AM
1	Y axial	4788937.1	4788937.1	100.7 %		10:41:33 AM
1	Ag 328.068†	261337.6	262249.6	0.9700 mg/L	0.9700 mg/L	10:41:33 AM
1	As 188.979†	5781.9	5763.4	1.972 mg/L	1.972 mg/L	10:41:53 AM
1	B 208.889†	34310.8	32980.9	1.877 mg/L	1.877 mg/L	10:41:53 AM
1	Ba 233.527†	321598.9	319507.0	2.050 mg/L	2.050 mg/L	10:41:33 AM
1	Cd 228.802†	210699.1	209207.3	1.995 mg/L	1.995 mg/L	10:41:33 AM
1	Co 228.616†	189473.3	188401.9	2.032 mg/L	2.032 mg/L	10:41:33 AM
1	Cr 267.716†	240398.2	238644.5	2.033 mg/L	2.033 mg/L	10:41:33 AM
1	Cu 327.393†	317564.2	315083.9	1.997 mg/L	1.997 mg/L	10:41:33 AM
1	Mo 202.031†	46658.5	46337.2	2.007 mg/L	2.007 mg/L	10:41:53 AM
1	Ni 231.604†	74059.7	73348.8	2.033 mg/L	2.033 mg/L	10:41:33 AM
1	Pb 220.353†	22775.8	22636.1	2.007 mg/L	2.007 mg/L	10:41:53 AM
1	Sb 206.836†	11370.9	11262.4	1.978 mg/L	1.978 mg/L	10:41:53 AM
1	Se 196.026†	3412.3	3392.1	1.968 mg/L	1.968 mg/L	10:41:53 AM
1	Sn 189.927†	16014.4	15918.6	2.026 mg/L	2.026 mg/L	10:41:53 AM
1	Tl 351.924†	11128.2	10749.8	0.9745 mg/L	0.9745 mg/L	10:41:53 AM
1	V 290.880†	409062.8	401211.0	1.983 mg/L	1.983 mg/L	10:41:33 AM
1	Zn 206.200†	132041.5	131127.2	2.014 mg/L	2.014 mg/L	10:41:33 AM
1	Zr 343.823†	797890.4	792039.0	1.997 mg/L	1.997 mg/L	10:41:33 AM
2	Y radial	184332.1	184332.1	104.9 %		10:41:17 AM
2	Al 396.153†	8183.0	7687.6	2.030 mg/L	2.030 mg/L	10:41:20 AM
2	Be 313.107†	834888.7	794670.8	1.964 mg/L	1.964 mg/L	10:41:17 AM
2	Ca 317.933†	14890.1	12939.0	2.015 mg/L	2.015 mg/L	10:41:20 AM
2	Fe 238.204†	4590.1	4501.5	2.091 mg/L	2.091 mg/L	10:41:20 AM
2	K 766.490†	7341.0	5778.8	1.926 mg/L	1.926 mg/L	10:41:20 AM
2	Mg 285.213†	17247.2	16432.9	2.078 mg/L	2.078 mg/L	10:41:20 AM
2	Mn 257.610†	46885.4	44663.2	1.973 mg/L	1.973 mg/L	10:41:20 AM
2	Na 589.592†	21029.0	19448.1	1.853 mg/L	1.853 mg/L	10:41:20 AM
2	Ti 337.279†	35941.1	34045.1	1.979 mg/L	1.979 mg/L	10:41:20 AM
2	Y axial	4759977.6	4759977.6	100.0 %		10:41:56 AM
2	Ag 328.068†	257272.7	259766.0	0.9608 mg/L	0.9608 mg/L	10:41:56 AM
2	As 188.979†	5769.6	5786.0	1.980 mg/L	1.980 mg/L	10:42:16 AM
2	B 208.889†	34348.2	33225.6	1.891 mg/L	1.891 mg/L	10:42:16 AM
2	Ba 233.527†	317910.0	317763.7	2.039 mg/L	2.039 mg/L	10:41:56 AM
2	Cd 228.802†	208563.7	208346.3	1.986 mg/L	1.986 mg/L	10:41:56 AM
2	Co 228.616†	187461.0	187535.8	2.022 mg/L	2.022 mg/L	10:41:56 AM
2	Cr 267.716†	237907.9	237608.4	2.024 mg/L	2.024 mg/L	10:41:56 AM
2	Cu 327.393†	313421.8	312862.8	1.983 mg/L	1.983 mg/L	10:41:56 AM
2	Mo 202.031†	46582.4	46543.1	2.016 mg/L	2.016 mg/L	10:42:16 AM
2	Ni 231.604†	73338.6	73075.7	2.025 mg/L	2.025 mg/L	10:41:56 AM
2	Pb 220.353†	22730.0	22728.0	2.015 mg/L	2.015 mg/L	10:42:16 AM
2	Sb 206.836†	11371.3	11331.7	1.991 mg/L	1.991 mg/L	10:42:16 AM
2	Se 196.026†	3404.6	3405.0	1.975 mg/L	1.975 mg/L	10:42:16 AM
2	Sn 189.927†	15986.2	15987.3	2.035 mg/L	2.035 mg/L	10:42:16 AM
2	Tl 351.924†	11163.4	10852.3	0.9840 mg/L	0.9840 mg/L	10:42:16 AM
2	V 290.880†	404735.1	399357.9	1.974 mg/L	1.974 mg/L	10:41:56 AM
2	Zn 206.200†	130906.0	130790.3	2.009 mg/L	2.009 mg/L	10:41:56 AM
2	Zr 343.823†	787885.1	786860.8	1.983 mg/L	1.983 mg/L	10:41:56 AM
3	Y radial	181082.5	181082.5	103.1 %		10:41:22 AM
3	Al 396.153†	8162.3	7807.4	2.064 mg/L	2.064 mg/L	10:41:24 AM
3	Be 313.107†	825822.8	800153.8	1.978 mg/L	1.978 mg/L	10:41:22 AM
3	Ca 317.933†	14862.8	13167.2	2.050 mg/L	2.050 mg/L	10:41:24 AM
3	Fe 238.204†	4575.7	4566.0	2.121 mg/L	2.121 mg/L	10:41:24 AM
3	K 766.490†	7460.8	6020.5	2.006 mg/L	2.006 mg/L	10:41:24 AM
3	Mg 285.213†	17243.1	16723.9	2.115 mg/L	2.115 mg/L	10:41:24 AM
3	Mn 257.610†	46887.4	45466.9	2.008 mg/L	2.008 mg/L	10:41:24 AM
3	Na 589.592†	21011.1	19790.4	1.886 mg/L	1.886 mg/L	10:41:24 AM
3	Ti 337.279†	35955.4	34673.6	2.015 mg/L	2.015 mg/L	10:41:24 AM
3	Y axial	4753184.6	4753184.6	99.90 %		10:42:20 AM
3	Ag 328.068†	257011.6	259872.2	0.9612 mg/L	0.9612 mg/L	10:42:20 AM
3	As 188.979†	5781.0	5805.7	1.987 mg/L	1.987 mg/L	10:42:40 AM
3	B 208.889†	34402.9	33329.5	1.897 mg/L	1.897 mg/L	10:42:40 AM
3	Ba 233.527†	315814.2	316119.9	2.028 mg/L	2.028 mg/L	10:42:20 AM
3	Cd 228.802†	207456.6	207536.1	1.978 mg/L	1.978 mg/L	10:42:20 AM
3	Co 228.616†	186293.1	186634.5	2.012 mg/L	2.012 mg/L	10:42:20 AM
3	Cr 267.716†	236205.8	236244.5	2.012 mg/L	2.012 mg/L	10:42:20 AM
3	Cu 327.393†	311532.4	311419.2	1.974 mg/L	1.974 mg/L	10:42:20 AM
3	Mo 202.031†	46580.5	46607.7	2.019 mg/L	2.019 mg/L	10:42:40 AM

3	Ni 231.604†	72775.5	72616.8	2.012 mg/L	2.012 mg/L	10:42:20 AM
3	Pb 220.353†	22715.5	22745.9	2.016 mg/L	2.016 mg/L	10:42:40 AM
3	Sb 206.836†	11349.1	11325.6	1.990 mg/L	1.990 mg/L	10:42:40 AM
3	Se 196.026†	3419.9	3425.2	1.987 mg/L	1.987 mg/L	10:42:40 AM
3	Sn 189.927†	16009.3	16033.2	2.041 mg/L	2.041 mg/L	10:42:40 AM
3	Tl 351.924†	11136.8	10841.6	0.9829 mg/L	0.9829 mg/L	10:42:40 AM
3	V 290.880†	402389.7	397588.3	1.965 mg/L	1.965 mg/L	10:42:20 AM
3	Zn 206.200†	130329.8	130400.5	2.003 mg/L	2.003 mg/L	10:42:20 AM
3	Zr 343.823†	783220.6	783317.2	1.975 mg/L	1.975 mg/L	10:42:20 AM
4	Y radial	182485.2	182485.2	103.9 %		10:41:26 AM
4	Al 396.153†	8157.0	7741.4	2.045 mg/L	2.045 mg/L	10:41:28 AM
4	Be 313.107†	835178.3	803001.2	1.985 mg/L	1.985 mg/L	10:41:26 AM
4	Ca 317.933†	14849.7	13043.7	2.031 mg/L	2.031 mg/L	10:41:28 AM
4	Fe 238.204†	4558.8	4515.6	2.097 mg/L	2.097 mg/L	10:41:28 AM
4	K 766.490†	7219.1	5732.2	1.910 mg/L	1.910 mg/L	10:41:28 AM
4	Mg 285.213†	17101.2	16458.7	2.081 mg/L	2.081 mg/L	10:41:28 AM
4	Mn 257.610†	46503.0	44747.3	1.977 mg/L	1.977 mg/L	10:41:28 AM
4	Na 589.592†	20850.5	19479.1	1.856 mg/L	1.856 mg/L	10:41:28 AM
4	Ti 337.279†	35751.3	34209.1	1.988 mg/L	1.988 mg/L	10:41:28 AM
4	Y axial	4725494.2	4725494.2	99.32 %		10:42:43 AM
4	Ag 328.068†	257925.8	262300.2	0.9702 mg/L	0.9702 mg/L	10:42:43 AM
4	As 188.979†	5759.5	5817.9	1.991 mg/L	1.991 mg/L	10:43:03 AM
4	B 208.889†	34361.2	33489.3	1.907 mg/L	1.907 mg/L	10:43:03 AM
4	Ba 233.527†	317119.1	319286.2	2.049 mg/L	2.049 mg/L	10:42:43 AM
4	Cd 228.802†	208529.5	209833.3	2.000 mg/L	2.000 mg/L	10:42:43 AM
4	Co 228.616†	187088.1	188527.7	2.033 mg/L	2.033 mg/L	10:42:43 AM
4	Cr 267.716†	236780.8	238208.9	2.029 mg/L	2.029 mg/L	10:42:43 AM
4	Cu 327.393†	311711.9	313427.4	1.987 mg/L	1.987 mg/L	10:42:43 AM
4	Mo 202.031†	46453.6	46753.2	2.025 mg/L	2.025 mg/L	10:43:03 AM
4	Ni 231.604†	72978.8	73248.4	2.030 mg/L	2.030 mg/L	10:42:43 AM
4	Pb 220.353†	22642.2	22805.4	2.022 mg/L	2.022 mg/L	10:43:03 AM
4	Sb 206.836†	11325.9	11368.8	1.997 mg/L	1.997 mg/L	10:43:03 AM
4	Se 196.026†	3394.8	3420.0	1.984 mg/L	1.984 mg/L	10:43:03 AM
4	Sn 189.927†	15938.4	16055.8	2.044 mg/L	2.044 mg/L	10:43:03 AM
4	Tl 351.924†	11086.2	10855.9	0.9842 mg/L	0.9842 mg/L	10:43:03 AM
4	V 290.880†	404160.4	401731.4	1.986 mg/L	1.986 mg/L	10:42:43 AM
4	Zn 206.200†	130579.7	131416.6	2.019 mg/L	2.019 mg/L	10:42:43 AM
4	Zr 343.823†	786333.5	791045.6	1.994 mg/L	1.994 mg/L	10:42:43 AM

Mean Data: SEQ-ICV@ 23K0257

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4756898.4	99.98 %	0.548			0.55%
Y radial	183721.0	104.6 %	1.45			1.39%
Ag 328.068†	261047.0	0.9655 mg/L	0.00526	0.9655 mg/L	0.00526	0.54%
QC value within limits for Ag 328.068 Recovery = 96.55%						
Al 396.153†	7714.4	2.038 mg/L	0.0219	2.038 mg/L	0.0219	1.07%
QC value within limits for Al 396.153 Recovery = 101.89%						
As 188.979†	5793.2	1.983 mg/L	0.0083	1.983 mg/L	0.0083	0.42%
QC value within limits for As 188.979 Recovery = 99.14%						
B 208.889†	33256.3	1.893 mg/L	0.0124	1.893 mg/L	0.0124	0.66%
QC value less than the lower limit for B 208.889 Recovery = 94.65%						
Ba 233.527†	318169.2	2.042 mg/L	0.0101	2.042 mg/L	0.0101	0.49%
QC value within limits for Ba 233.527 Recovery = 102.08%						
Be 313.107†	797509.2	1.971 mg/L	0.0123	1.971 mg/L	0.0123	0.62%
QC value within limits for Be 313.107 Recovery = 98.56%						
Ca 317.933†	12992.4	2.023 mg/L	0.0231	2.023 mg/L	0.0231	1.14%
QC value within limits for Ca 317.933 Recovery = 101.15%						
Cd 228.802†	208730.8	1.990 mg/L	0.0098	1.990 mg/L	0.0098	0.49%
QC value within limits for Cd 228.802 Recovery = 99.49%						
Co 228.616†	187774.9	2.025 mg/L	0.0095	2.025 mg/L	0.0095	0.47%
QC value within limits for Co 228.616 Recovery = 101.24%						
Cr 267.716†	237676.6	2.025 mg/L	0.0089	2.025 mg/L	0.0089	0.44%
QC value within limits for Cr 267.716 Recovery = 101.23%						
Cu 327.393†	313198.3	1.985 mg/L	0.0096	1.985 mg/L	0.0096	0.48%
QC value within limits for Cu 327.393 Recovery = 99.27%						
Fe 238.204†	4511.4	2.095 mg/L	0.0197	2.095 mg/L	0.0197	0.94%
QC value within limits for Fe 238.204 Recovery = 104.77%						
K 766.490†	5813.2	1.937 mg/L	0.0468	1.937 mg/L	0.0468	2.41%

QC value within limits for K 766.490 Recovery = 96.87%

Mg 285.213† 16464.2 2.082 mg/L 0.0252 2.082 mg/L 0.0252 1.21%

QC value within limits for Mg 285.213 Recovery = 104.11%

Mn 257.610† 44754.7 1.977 mg/L 0.0241 1.977 mg/L 0.0241 1.22%

QC value within limits for Mn 257.610 Recovery = 98.84%

Mo 202.031† 46560.3 2.017 mg/L 0.0075 2.017 mg/L 0.0075 0.37%

QC value within limits for Mo 202.031 Recovery = 100.85%

Na 589.592† 19463.6 1.855 mg/L 0.0255 1.855 mg/L 0.0255 1.37%

QC value less than the lower limit for Na 589.592 Recovery = 92.73%

Ni 231.604† 73072.4 2.025 mg/L 0.0090 2.025 mg/L 0.0090 0.44%

QC value within limits for Ni 231.604 Recovery = 101.25%

Pb 220.353† 22728.8 2.015 mg/L 0.0062 2.015 mg/L 0.0062 0.31%

QC value within limits for Pb 220.353 Recovery = 100.75%

Sb 206.836† 11322.1 1.989 mg/L 0.0079 1.989 mg/L 0.0079 0.40%

QC value within limits for Sb 206.836 Recovery = 99.44%

Se 196.026† 3410.6 1.979 mg/L 0.0087 1.979 mg/L 0.0087 0.44%

QC value within limits for Se 196.026 Recovery = 98.93%

Sn 189.927† 15998.7 2.036 mg/L 0.0077 2.036 mg/L 0.0077 0.38%

QC value within limits for Sn 189.927 Recovery = 101.82%

Ti 337.279† 34145.9 1.984 mg/L 0.0245 1.984 mg/L 0.0245 1.24%

QC value within limits for Ti 337.279 Recovery = 99.22%

Tl 351.924† 10824.9 0.9814 mg/L 0.00462 0.9814 mg/L 0.00462 0.47%

QC value within limits for Tl 351.924 Recovery = 98.14%

V 290.880† 399972.1 1.977 mg/L 0.0093 1.977 mg/L 0.0093 0.47%

QC value within limits for V 290.880 Recovery = 98.85%

Zn 206.200† 130933.7 2.011 mg/L 0.0067 2.011 mg/L 0.0067 0.33%

QC value within limits for Zn 206.200 Recovery = 100.57%

Zr 343.823† 788315.6 1.987 mg/L 0.0101 1.987 mg/L 0.0101 0.51%

QC Failed. Continue with analysis.

User canceled analysis.

NO 200.7 B, NA; OK FOR 6010 - HNN 041624

=====
Analysis Begun

Start Time: 4/16/2024 10:47:55 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Method Loaded

Method Name: ICP2 111223-IEC

Method Last Saved: 4/16/2024 10:43:06 AM

IEC File: 111223-IEC.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes

		Mean Corrected		Calib.		Sample				
Analyte		Intensity		Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y axial		4728925.0		99.39	%	1.084				1.09%
Y radial		183449.6		104.4	%	2.18				2.09%
Ag	328.068†	186.5		0.0007	mg/L	0.00024	0.0007	mg/L	0.00024	33.59%
	QC value		within limits	for Ag	328.068	Recovery =	Not calculated			
Al	396.153†	-7.4		-0.0021	mg/L	0.00557	-0.0021	mg/L	0.00557	266.29%
	QC value		within limits	for Al	396.153	Recovery =	Not calculated			
As	188.979†	1.2		0.0004	mg/L	0.00144	0.0004	mg/L	0.00144	359.22%
	QC value		within limits	for As	188.979	Recovery =	Not calculated			
B	208.889†	-291.8		-0.0175	mg/L	0.00099	-0.0175	mg/L	0.00099	5.64%
	QC value		within limits	for B	208.889	Recovery =	Not calculated			
Ba	233.527†	3.7		0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	140.67%
	QC value		within limits	for Ba	233.527	Recovery =	Not calculated			
Be	313.107†	5.6		0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	760.73%
	QC value		within limits	for Be	313.107	Recovery =	Not calculated			
Ca	317.933†	-5.9		-0.0009	mg/L	0.00467	-0.0009	mg/L	0.00467	510.71%
	QC value		within limits	for Ca	317.933	Recovery =	Not calculated			
Cd	228.802†	7.5		0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	126.44%
	QC value		within limits	for Cd	228.802	Recovery =	Not calculated			
Co	228.616†	-2.5		-0.0000	mg/L	0.00004	-0.0000	mg/L	0.00004	183.12%
	QC value		within limits	for Co	228.616	Recovery =	Not calculated			
Cr	267.716†	-9.5		-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	27.53%
	QC value		within limits	for Cr	267.716	Recovery =	Not calculated			
Cu	327.393†	-270.0		-0.0017	mg/L	0.00006	-0.0017	mg/L	0.00006	3.55%
	QC value		within limits	for Cu	327.393	Recovery =	Not calculated			
Fe	238.204†	8.7		0.0040	mg/L	0.00108	0.0040	mg/L	0.00108	26.70%
	QC value		within limits	for Fe	238.204	Recovery =	Not calculated			
K	766.490†	13.1		0.0044	mg/L	0.02124	0.0044	mg/L	0.02124	487.13%
	QC value		within limits	for K	766.490	Recovery =	Not calculated			
Mg	285.213†	4.2		0.0005	mg/L	0.00068	0.0005	mg/L	0.00068	126.73%
	QC value		within limits	for Mg	285.213	Recovery =	Not calculated			
Mn	257.610†	-1.9		-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	42.88%
	QC value		within limits	for Mn	257.610	Recovery =	Not calculated			
Mo	202.031†	21.6		0.0009	mg/L	0.00008	0.0009	mg/L	0.00008	8.77%
	QC value		within limits	for Mo	202.031	Recovery =	Not calculated			
Na	589.592†	-1.6		-0.0001	mg/L	0.00383	-0.0001	mg/L	0.00383	>999.9%
	QC value		within limits	for Na	589.592	Recovery =	Not calculated			
Ni	231.604†	-5.5		-0.0002	mg/L	0.00015	-0.0002	mg/L	0.00015	97.90%
	QC value		within limits	for Ni	231.604	Recovery =	Not calculated			
Pb	220.353†	9.3		0.0008	mg/L	0.00078	0.0008	mg/L	0.00078	94.01%
	QC value		within limits	for Pb	220.353	Recovery =	Not calculated			
Sb	206.836†	4.2		0.0007	mg/L	0.00046	0.0007	mg/L	0.00046	61.63%
	QC value		within limits	for Sb	206.836	Recovery =	Not calculated			
Se	196.026†	4.9		0.0028	mg/L	0.00090	0.0028	mg/L	0.00090	31.74%
	QC value		within limits	for Se	196.026	Recovery =	Not calculated			
Sn	189.927†	1.2		0.0001	mg/L	0.00029	0.0001	mg/L	0.00029	195.73%
	QC value		within limits	for Sn	189.927	Recovery =	Not calculated			
Ti	337.279†	-3.2		-0.0002	mg/L	0.00053	-0.0002	mg/L	0.00053	281.43%
	QC value		within limits	for Ti	337.279	Recovery =	Not calculated			

Tl 351.924†	-37.6	-0.0035 mg/L	0.00280	-0.0035 mg/L	0.00280	80.64%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	270.9	0.0013 mg/L	0.00071	0.0013 mg/L	0.00071	53.03%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	32.3	0.0005 mg/L	0.00005	0.0005 mg/L	0.00005	9.35%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	33.4	0.0001 mg/L	0.00015	0.0001 mg/L	0.00015	175.41%

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: SEQ-LCV@ 23J0971

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 10

Date Collected: 4/16/2024 10:53:26 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-LCV@ 23J0971

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4738380.6	99.59 %	1.049			1.05%
Y radial	182850.7	104.1 %	0.93			0.89%
Ag 328.068†	2775.5	0.0104 mg/L	0.00025	0.0104 mg/L	0.00025	2.43%
QC value within limits for Ag 328.068 Recovery = 103.76%						
Al 396.153†	169.6	0.0451 mg/L	0.00456	0.0451 mg/L	0.00456	10.10%
QC value within limits for Al 396.153 Recovery = 90.22%						
As 188.979†	24.1	0.0081 mg/L	0.00190	0.0081 mg/L	0.00190	23.56%
QC value within limits for As 188.979 Recovery = 80.51%						
B 208.889†	1206.7	0.0698 mg/L	0.00165	0.0698 mg/L	0.00165	2.37%
QC value less than the lower limit for B 208.889 Recovery = 69.85%						
Ba 233.527†	8021.5	0.0514 mg/L	0.00071	0.0514 mg/L	0.00071	1.37%
QC value within limits for Ba 233.527 Recovery = 102.82%						
Be 313.107†	1621.8	0.0040 mg/L	0.00007	0.0040 mg/L	0.00007	1.81%
QC value within limits for Be 313.107 Recovery = 99.53%						
Ca 317.933†	3217.7	0.5010 mg/L	0.00345	0.5010 mg/L	0.00345	0.69%
QC value within limits for Ca 317.933 Recovery = 100.21%						
Cd 228.802†	435.4	0.0041 mg/L	0.00012	0.0041 mg/L	0.00012	2.83%
QC value within limits for Cd 228.802 Recovery = 102.00%						
Co 228.616†	934.8	0.0102 mg/L	0.00015	0.0102 mg/L	0.00015	1.45%
QC value within limits for Co 228.616 Recovery = 101.83%						
Cr 267.716†	1175.9	0.0100 mg/L	0.00013	0.0100 mg/L	0.00013	1.27%
QC value within limits for Cr 267.716 Recovery = 100.13%						
Cu 327.393†	1302.6	0.0082 mg/L	0.00016	0.0082 mg/L	0.00016	1.96%
QC value within limits for Cu 327.393 Recovery = 82.33%						
Fe 238.204†	118.1	0.0546 mg/L	0.00105	0.0546 mg/L	0.00105	1.93%
QC value within limits for Fe 238.204 Recovery = 109.23%						
K 766.490†	5640.7	1.880 mg/L	0.0191	1.880 mg/L	0.0191	1.01%
QC value within limits for K 766.490 Recovery = 93.99%						
Mg 285.213†	410.8	0.0521 mg/L	0.00062	0.0521 mg/L	0.00062	1.19%
QC value within limits for Mg 285.213 Recovery = 104.17%						
Mn 257.610†	232.6	0.0103 mg/L	0.00010	0.0103 mg/L	0.00010	0.97%
QC value within limits for Mn 257.610 Recovery = 102.78%						
Mo 202.031†	1156.9	0.0501 mg/L	0.00024	0.0501 mg/L	0.00024	0.48%
QC value within limits for Mo 202.031 Recovery = 100.24%						
Na 589.592†	18478.8	1.761 mg/L	0.0143	1.761 mg/L	0.0143	0.81%
QC value within limits for Na 589.592 Recovery = 88.04%						
Ni 231.604†	372.8	0.0103 mg/L	0.00029	0.0103 mg/L	0.00029	2.83%
QC value within limits for Ni 231.604 Recovery = 103.14%						
Pb 220.353†	125.4	0.0112 mg/L	0.00048	0.0112 mg/L	0.00048	4.27%
QC value within limits for Pb 220.353 Recovery = 111.83%						
Sb 206.836†	240.0	0.0430 mg/L	0.00040	0.0430 mg/L	0.00040	0.93%
QC value within limits for Sb 206.836 Recovery = 86.03%						
Se 196.026†	84.8	0.0491 mg/L	0.00210	0.0491 mg/L	0.00210	4.28%
QC value within limits for Se 196.026 Recovery = 98.24%						
Sn 189.927†	763.4	0.0973 mg/L	0.00133	0.0973 mg/L	0.00133	1.37%
QC value within limits for Sn 189.927 Recovery = 97.27%						
Ti 337.279†	328.7	0.0191 mg/L	0.00012	0.0191 mg/L	0.00012	0.65%
QC value within limits for Ti 337.279 Recovery = 95.55%						
Tl 351.924†	455.4	0.0419 mg/L	0.00672	0.0419 mg/L	0.00672	16.05%

QC value within limits for Tl 351.924 Recovery = 83.81%
V 290.880† 2166.6 0.0107 mg/L 0.00048 0.0107 mg/L 0.00048 4.48%
QC value within limits for V 290.880 Recovery = 106.94%
Zn 206.200† 831.2 0.0126 mg/L 0.00029 0.0126 mg/L 0.00029 2.29%
QC value greater than the upper limit for Zn 206.200 Recovery = 125.71%
Zr 343.823† 629.5 0.0016 mg/L 0.00030 0.0016 mg/L 0.00030 19.23%
QC Failed. Continue with analysis.

NO B, ZN - HNN 041624

Sequence No.: 4

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 10:58:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4642418.5	97.57 %	0.710			0.73%
Y radial	179760.6	102.3 %	0.49			0.48%
Ag 328.068†	644641.3	2.385 mg/L	0.0162	2.385 mg/L	0.0162	0.68%
QC value within limits for Ag 328.068						Recovery = 95.38%
Al 396.153†	36173.2	9.796 mg/L	0.0656	9.796 mg/L	0.0656	0.67%
QC value within limits for Al 396.153						Recovery = 97.96%
As 188.979†	14390.5	4.926 mg/L	0.0250	4.926 mg/L	0.0250	0.51%
QC value within limits for As 188.979						Recovery = 98.52%
B 208.889†	81874.0	4.663 mg/L	0.0263	4.663 mg/L	0.0263	0.56%
QC value within limits for B 208.889						Recovery = 93.26%
Ba 233.527†	776838.6	4.985 mg/L	0.0325	4.985 mg/L	0.0325	0.65%
QC value within limits for Ba 233.527						Recovery = 99.69%
Be 313.107†	1974847.7	4.881 mg/L	0.0990	4.881 mg/L	0.0990	2.03%
QC value within limits for Be 313.107						Recovery = 97.62%
Ca 317.933†	62971.7	9.806 mg/L	0.0755	9.806 mg/L	0.0755	0.77%
QC value within limits for Ca 317.933						Recovery = 98.06%
Cd 228.802†	514845.4	4.907 mg/L	0.0329	4.907 mg/L	0.0329	0.67%
QC value within limits for Cd 228.802						Recovery = 98.14%
Co 228.616†	460637.5	4.967 mg/L	0.0355	4.967 mg/L	0.0355	0.71%
QC value within limits for Co 228.616						Recovery = 99.34%
Cr 267.716†	578206.1	4.925 mg/L	0.0262	4.925 mg/L	0.0262	0.53%
QC value within limits for Cr 267.716						Recovery = 98.50%
Cu 327.393†	770635.3	4.885 mg/L	0.0115	4.885 mg/L	0.0115	0.24%
QC value within limits for Cu 327.393						Recovery = 97.70%
Fe 238.204†	10727.5	4.983 mg/L	0.0314	4.983 mg/L	0.0314	0.63%
QC value within limits for Fe 238.204						Recovery = 99.67%
K 766.490†	28806.3	9.600 mg/L	0.0530	9.600 mg/L	0.0530	0.55%
QC value within limits for K 766.490						Recovery = 96.00%
Mg 285.213†	78277.5	9.919 mg/L	0.0608	9.919 mg/L	0.0608	0.61%
QC value within limits for Mg 285.213						Recovery = 99.19%
Mn 257.610†	112459.0	4.968 mg/L	0.0390	4.968 mg/L	0.0390	0.79%
QC value within limits for Mn 257.610						Recovery = 99.35%
Mo 202.031†	113507.5	4.917 mg/L	0.0253	4.917 mg/L	0.0253	0.51%
QC value within limits for Mo 202.031						Recovery = 98.35%
Na 589.592†	97135.4	9.256 mg/L	0.2054	9.256 mg/L	0.2054	2.22%
QC value within limits for Na 589.592						Recovery = 92.56%
Ni 231.604†	179098.0	4.963 mg/L	0.0289	4.963 mg/L	0.0289	0.58%
QC value within limits for Ni 231.604						Recovery = 99.26%
Pb 220.353†	55703.3	4.939 mg/L	0.0203	4.939 mg/L	0.0203	0.41%
QC value within limits for Pb 220.353						Recovery = 98.77%
Sb 206.836†	27661.4	4.859 mg/L	0.0240	4.859 mg/L	0.0240	0.49%
QC value within limits for Sb 206.836						Recovery = 97.18%
Se 196.026†	8533.4	4.949 mg/L	0.0229	4.949 mg/L	0.0229	0.46%
QC value within limits for Se 196.026						Recovery = 98.98%
Sn 189.927†	38633.4	4.917 mg/L	0.0191	4.917 mg/L	0.0191	0.39%
QC value within limits for Sn 189.927						Recovery = 98.35%
Ti 337.279†	84401.7	4.905 mg/L	0.0377	4.905 mg/L	0.0377	0.77%
QC value within limits for Ti 337.279						Recovery = 98.10%
Tl 351.924†	26822.6	2.432 mg/L	0.0150	2.432 mg/L	0.0150	0.62%
QC value within limits for Tl 351.924						Recovery = 97.27%

V 290.880† 994038.6 4.913 mg/L 0.0281 4.913 mg/L 0.0281 0.57%
 QC value within limits for V 290.880 Recovery = 98.27%
 Zn 206.200† 325122.9 4.993 mg/L 0.0440 4.993 mg/L 0.0440 0.88%
 QC value within limits for Zn 206.200 Recovery = 99.87%
 Zr 343.823† 1940537.9 4.892 mg/L 0.0191 4.892 mg/L 0.0191 0.39%
 All analyte(s) passed QC.

Sequence No.: 5

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 11

Date Collected: 4/16/2024 11:04:41 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4287938.6	90.12 %	1.638			1.82%
Y radial	171480.2	97.62 %	0.234			0.24%
Ag 328.068†	-1627.1	-0.0040 mg/L	0.00018	-0.0040 mg/L	0.00018	4.47%
QC value within limits for Ag 328.068						Not calculated
Al 396.153†	916309.3	254.8 mg/L	2.53	254.8 mg/L	2.53	0.99%
QC value within limits for Al 396.153						101.91%
As 188.979†	-112.8	-0.0041 mg/L	0.00170	-0.0041 mg/L	0.00170	41.29%
QC value within limits for As 188.979						Not calculated
B 208.889†	-414.1	-0.0247 mg/L	0.00076	-0.0247 mg/L	0.00076	3.07%
QC value within limits for B 208.889						Not calculated
Ba 233.527†	1561.3	-0.0029 mg/L	0.00014	-0.0029 mg/L	0.00014	4.89%
QC value within limits for Ba 233.527						Not calculated
Be 313.107†	111.8	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	14.52%
QC value within limits for Be 313.107						Not calculated
Ca 317.933†	1587706.7	247.2 mg/L	1.60	247.2 mg/L	1.60	0.65%
QC value within limits for Ca 317.933						98.89%
Cd 228.802†	-149.9	0.0007 mg/L	0.00015	0.0007 mg/L	0.00015	23.16%
QC value within limits for Cd 228.802						Not calculated
Co 228.616†	-49.9	-0.0006 mg/L	0.00019	-0.0006 mg/L	0.00019	33.76%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	288.5	0.0025 mg/L	0.00013	0.0025 mg/L	0.00013	5.16%
QC value within limits for Cr 267.716						Not calculated
Cu 327.393†	-838.7	-0.0053 mg/L	0.00006	-0.0053 mg/L	0.00006	1.16%
QC value within limits for Cu 327.393						Not calculated
Fe 238.204†	211372.9	97.68 mg/L	0.598	97.68 mg/L	0.598	0.61%
QC value within limits for Fe 238.204						97.68%
K 766.490†	81.5	0.0272 mg/L	0.00910	0.0272 mg/L	0.00910	33.52%
QC value within limits for K 766.490						Not calculated
Mg 285.213†	1839853.7	233.7 mg/L	1.74	233.7 mg/L	1.74	0.74%
QC value within limits for Mg 285.213						93.49%
Mn 257.610†	-84.5	0.0039 mg/L	0.00022	0.0039 mg/L	0.00022	5.62%
QC value within limits for Mn 257.610						Not calculated
Mo 202.031†	-76.6	-0.0033 mg/L	0.00037	-0.0033 mg/L	0.00037	11.07%
QC value within limits for Mo 202.031						Not calculated
Na 589.592†	590.4	0.0563 mg/L	0.00193	0.0563 mg/L	0.00193	3.43%
QC value within limits for Na 589.592						Not calculated
Ni 231.604†	256.6	0.0072 mg/L	0.00039	0.0072 mg/L	0.00039	5.44%
QC value within limits for Ni 231.604						Not calculated
Pb 220.353†	-265.4	0.0050 mg/L	0.00103	0.0050 mg/L	0.00103	20.32%
QC value within limits for Pb 220.353						Not calculated
Sb 206.836†	18.0	0.0073 mg/L	0.00265	0.0073 mg/L	0.00265	36.18%
QC value within limits for Sb 206.836						Not calculated
Se 196.026†	67.7	-0.0294 mg/L	0.00443	-0.0294 mg/L	0.00443	15.06%
QC value within limits for Se 196.026						Not calculated
Sn 189.927†	-539.3	-0.0687 mg/L	0.00063	-0.0687 mg/L	0.00063	0.92%
QC value within limits for Sn 189.927						Not calculated
Ti 337.279†	13.1	0.0008 mg/L	0.00052	0.0008 mg/L	0.00052	68.55%
QC value within limits for Ti 337.279						Not calculated
Tl 351.924†	-789.6	-0.0093 mg/L	0.00071	-0.0093 mg/L	0.00071	7.65%
QC value within limits for Tl 351.924						Not calculated
V 290.880†	1320.3	-0.0006 mg/L	0.00025	-0.0006 mg/L	0.00025	44.13%

QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 309.4 -0.0021 mg/L 0.00039 -0.0021 mg/L 0.00039 18.88%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 1259.5 0.0008 mg/L 0.00003 0.0008 mg/L 0.00003 3.37%
 All analyte(s) passed QC.

Sequence No.: 6

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/16/2024 11:10:10 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4286880.9	90.10 %		0.076			0.08%
Y radial	174617.8	99.41 %		0.246			0.25%
Ag 328.068†	110047.4	0.4168 mg/L		0.00366	0.4168 mg/L	0.00366	0.88%
QC value within limits for Ag 328.068				104.20%			
Al 396.153†	927046.6	257.8 mg/L		1.17	257.8 mg/L	1.17	0.46%
QC value within limits for Al 396.153				103.10%			
As 188.979†	476.1	0.1927 mg/L		0.00375	0.1927 mg/L	0.00375	1.95%
QC value within limits for As 188.979				96.34%			
B 208.889†	-471.6	-0.0281 mg/L		0.00118	-0.0281 mg/L	0.00118	4.19%
QC value within limits for B 208.889				Not calculated			
Ba 233.527†	155781.3	0.9865 mg/L		0.00506	0.9865 mg/L	0.00506	0.51%
QC value within limits for Ba 233.527				98.65%			
Be 313.107†	404670.2	1.000 mg/L		0.0055	1.000 mg/L	0.0055	0.55%
QC value within limits for Be 313.107				100.03%			
Ca 317.933†	1567015.0	244.0 mg/L		1.00	244.0 mg/L	1.00	0.41%
QC value within limits for Ca 317.933				97.60%			
Cd 228.802†	207766.6	2.018 mg/L		0.0115	2.018 mg/L	0.0115	0.57%
QC value within limits for Cd 228.802				100.92%			
Co 228.616†	84017.4	0.9045 mg/L		0.00351	0.9045 mg/L	0.00351	0.39%
QC value within limits for Co 228.616				90.45%			
Cr 267.716†	112586.9	0.9592 mg/L		0.00526	0.9592 mg/L	0.00526	0.55%
QC value within limits for Cr 267.716				95.92%			
Cu 327.393†	159532.7	1.008 mg/L		0.0054	1.008 mg/L	0.0054	0.54%
QC value within limits for Cu 327.393				100.76%			
Fe 238.204†	210206.9	97.14 mg/L		0.328	97.14 mg/L	0.328	0.34%
QC value within limits for Fe 238.204				97.14%			
K 766.490†	-62.1	-0.0207 mg/L		0.00637	-0.0207 mg/L	0.00637	30.79%
QC value within limits for K 766.490				Not calculated			
Mg 285.213†	1833235.5	232.9 mg/L		0.99	232.9 mg/L	0.99	0.42%
QC value within limits for Mg 285.213				93.15%			
Mn 257.610†	21623.5	0.9627 mg/L		0.00387	0.9627 mg/L	0.00387	0.40%
QC value within limits for Mn 257.610				96.27%			
Mo 202.031†	-101.0	-0.0044 mg/L		0.00019	-0.0044 mg/L	0.00019	4.37%
QC value within limits for Mo 202.031				Not calculated			
Na 589.592†	517.0	0.0493 mg/L		0.00079	0.0493 mg/L	0.00079	1.61%
QC value within limits for Na 589.592				Not calculated			
Ni 231.604†	64909.4	1.799 mg/L		0.0066	1.799 mg/L	0.0066	0.37%
QC value within limits for Ni 231.604				89.96%			
Pb 220.353†	783.5	0.0974 mg/L		0.00105	0.0974 mg/L	0.00105	1.08%
QC value within limits for Pb 220.353				97.45%			
Sb 206.836†	6315.7	1.106 mg/L		0.0080	1.106 mg/L	0.0080	0.72%
QC value within limits for Sb 206.836				92.19%			
Se 196.026†	955.0	0.4853 mg/L		0.00083	0.4853 mg/L	0.00083	0.17%
QC value within limits for Se 196.026				97.07%			
Sn 189.927†	-545.6	-0.0695 mg/L		0.00072	-0.0695 mg/L	0.00072	1.04%
QC value within limits for Sn 189.927				Not calculated			
Ti 337.279†	8.2	0.0005 mg/L		0.00034	0.0005 mg/L	0.00034	72.64%
QC value within limits for Ti 337.279				Not calculated			
Tl 351.924†	1579.0	0.2045 mg/L		0.00156	0.2045 mg/L	0.00156	0.76%
QC value within limits for Tl 351.924				102.24%			
V 290.880†	198221.1	0.9728 mg/L		0.00465	0.9728 mg/L	0.00465	0.48%
QC value within limits for V 290.880				97.28%			

Zn 206.200† 120755.5 1.844 mg/L 0.0082 1.844 mg/L 0.0082 0.45%
 QC value within limits for Zn 206.200 Recovery = 92.20%
 Zr 343.823† 1515.7 0.0015 mg/L 0.00004 0.0015 mg/L 0.00004 2.57%
 All analyte(s) passed QC.
 User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 11:14:55 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 8

Autosampler Location: 37

Sample ID: SEQ-HCV1@100

Date Collected: 4/16/2024 11:14:56 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4475697.2	94.07 %	0.823			0.87%
Y radial	176077.2	100.2 %	1.17			1.17%
Ag 328.068†	-88560.8	0.0760 mg/L	0.00317	0.0760 mg/L	0.00317	4.17%
Al 396.153†	376196.3	104.7 mg/L	0.52	104.7 mg/L	0.52	0.49%
QC value within limits for Al 396.153		Recovery = 104.65%				
As 188.979†	267903.9	91.43 mg/L	0.273	91.43 mg/L	0.273	0.30%
QC value within limits for As 188.979		Recovery = 91.43%				
B 208.889†	-629.6	-0.0359 mg/L	0.00115	-0.0359 mg/L	0.00115	3.21%
Ba 233.527†	12502617.8	80.22 mg/L	0.329	80.22 mg/L	0.329	0.41%
QC value less than the lower limit for Ba 233.527		Recovery = 80.22%				
Be 313.107†	34083493.5	84.18 mg/L	0.324	84.18 mg/L	0.324	0.38%
QC value less than the lower limit for Be 313.107		Recovery = 84.18%				
Ca 317.933†	887.5	0.1382 mg/L	0.00528	0.1382 mg/L	0.00528	3.82%
Cd 228.802†	6771809.3	64.08 mg/L	0.586	64.08 mg/L	0.586	0.91%
QC value less than the lower limit for Cd 228.802		Recovery = 64.08%				
Co 228.616†	8590245.1	92.55 mg/L	0.218	92.55 mg/L	0.218	0.24%
QC value within limits for Co 228.616		Recovery = 92.55%				
Cr 267.716†	10989460.9	93.59 mg/L	0.790	93.59 mg/L	0.790	0.84%
QC value within limits for Cr 267.716		Recovery = 93.59%				
Cu 327.393†	15999315.8	101.1 mg/L	0.15	101.1 mg/L	0.15	0.15%
QC value within limits for Cu 327.393		Recovery = 101.05%				
Fe 238.204†	215198.0	99.89 mg/L	0.449	99.89 mg/L	0.449	0.45%
QC value within limits for Fe 238.204		Recovery = 99.89%				
K 766.490†	-82.9	-0.0276 mg/L	0.01668	-0.0276 mg/L	0.01668	60.41%
Mg 285.213†	-969.8	0.0232 mg/L	0.00727	0.0232 mg/L	0.00727	31.40%
Mn 257.610†	2163888.4	95.58 mg/L	0.452	95.58 mg/L	0.452	0.47%
QC value within limits for Mn 257.610		Recovery = 95.58%				
Mo 202.031†	-871.6	-0.0378 mg/L	0.00064	-0.0378 mg/L	0.00064	1.69%
Na 589.592†	229.8	0.0219 mg/L	0.00462	0.0219 mg/L	0.00462	21.10%
Ni 231.604†	3335053.3	92.35 mg/L	0.844	92.35 mg/L	0.844	0.91%
QC value within limits for Ni 231.604		Recovery = 92.35%				
Pb 220.353†	1096099.4	97.00 mg/L	0.324	97.00 mg/L	0.324	0.33%
QC value within limits for Pb 220.353		Recovery = 97.00%				
Sb 206.836†	7941.0	-0.3172 mg/L	0.00468	-0.3172 mg/L	0.00468	1.47%
Se 196.026†	173950.9	100.7 mg/L	0.50	100.7 mg/L	0.50	0.50%
QC value within limits for Se 196.026		Recovery = 100.68%				
Sn 189.927†	-279.7	-0.0356 mg/L	0.00070	-0.0356 mg/L	0.00070	1.96%
Ti 337.279†	-30.9	-0.0018 mg/L	0.00095	-0.0018 mg/L	0.00095	53.12%
Tl 351.924†	1180780.0	108.5 mg/L	0.77	108.5 mg/L	0.77	0.71%
QC value within limits for Tl 351.924		Recovery = 108.49%				

V 290.880† 19669239.8 97.22 mg/L 0.179 97.22 mg/L 0.179 0.18%
 QC value within limits for V 290.880 Recovery = 97.22%
 Zn 206.200† 5515456.1 85.07 mg/L 0.868 85.07 mg/L 0.868 1.02%
 QC value less than the lower limit for Zn 206.200 Recovery = 85.07%
 Zr 343.823† -2172.3 -0.0078 mg/L 0.00010 -0.0078 mg/L 0.00010 1.31%
 QC Failed. Continue with analysis.

BA, BE, CD, ZN FAILED HCV1 - HNN 041624

Sequence No.: 9

Sample ID: SEQ-HCV2@500/100

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 36

Date Collected: 4/16/2024 11:22:12 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4048377.8	85.09 %	0.844			0.99%
Y radial	170197.6	96.89 %	0.166			0.17%
Ag 328.068†	-8785.0	-0.0235 mg/L	0.00043	-0.0235 mg/L	0.00043	1.84%
Al 396.153†	1874800.7	521.3 mg/L	1.12	521.3 mg/L	1.12	0.22%
QC value within limits for Al 396.153 Recovery = 104.26%						
As 188.979†	-351.8	-0.0162 mg/L	0.00538	-0.0162 mg/L	0.00538	33.21%
B 208.889†	1479935.1	88.75 mg/L	0.607	88.75 mg/L	0.607	0.68%
QC value less than the lower limit for B 208.889 Recovery = 88.75%						
Ba 233.527†	5158.1	-0.0243 mg/L	0.00036	-0.0243 mg/L	0.00036	1.47%
Be 313.107†	472.0	0.0010 mg/L	0.00018	0.0010 mg/L	0.00018	17.73%
Ca 317.933†	3062646.9	476.9 mg/L	1.08	476.9 mg/L	1.08	0.23%
QC value within limits for Ca 317.933 Recovery = 95.38%						
Cd 228.802†	-173.6	0.0065 mg/L	0.00007	0.0065 mg/L	0.00007	1.02%
Co 228.616†	14.7	0.0001 mg/L	0.00023	0.0001 mg/L	0.00023	257.17%
Cr 267.716†	53.6	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	45.62%
Cu 327.393†	18535.8	0.1171 mg/L	0.00485	0.1171 mg/L	0.00485	4.14%
Fe 238.204†	937082.5	433.0 mg/L	0.93	433.0 mg/L	0.93	0.21%
QC value less than the lower limit for Fe 238.204 Recovery = 86.61%						
K 766.490†	654543.2	218.1 mg/L	0.36	218.1 mg/L	0.36	0.16%
QC value within limits for K 766.490 Recovery = 109.07%						
Mg 285.213†	1506478.8	191.6 mg/L	0.26	191.6 mg/L	0.26	0.14%
QC value within limits for Mg 285.213 Recovery = 95.79%						
Mn 257.610†	-692.4	0.0032 mg/L	0.00066	0.0032 mg/L	0.00066	20.55%
Mo 202.031†	-525.6	-0.0228 mg/L	0.00028	-0.0228 mg/L	0.00028	1.21%
Na 589.592†	5035331.9	479.8 mg/L	2.38	479.8 mg/L	2.38	0.50%
QC value within limits for Na 589.592 Recovery = 95.96%						
Ni 231.604†	262.4	0.0075 mg/L	0.00052	0.0075 mg/L	0.00052	6.93%
Pb 220.353†	-423.8	0.0145 mg/L	0.00208	0.0145 mg/L	0.00208	14.29%
Sb 206.836†	1.6	0.0201 mg/L	0.00402	0.0201 mg/L	0.00402	19.96%
Se 196.026†	22.8	-0.0596 mg/L	0.00412	-0.0596 mg/L	0.00412	6.92%
Sn 189.927†	-676.3	-0.0862 mg/L	0.00191	-0.0862 mg/L	0.00191	2.21%
Ti 337.279†	7.7	0.0004 mg/L	0.00034	0.0004 mg/L	0.00034	75.79%
Tl 351.924†	-3567.5	-0.0475 mg/L	0.00161	-0.0475 mg/L	0.00161	3.40%
V 290.880†	6735.6	0.0019 mg/L	0.00063	0.0019 mg/L	0.00063	33.86%
Zn 206.200†	3597.2	-0.0161 mg/L	0.00155	-0.0161 mg/L	0.00155	9.62%
Zr 343.823†	5046.4	0.0024 mg/L	0.00016	0.0024 mg/L	0.00016	6.52%

QC Failed. Continue with analysis.

User canceled analysis.

B, FE FAILED HCV2 -
HNN 041624

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103279-IFA1	QC		1		24C0959	24D0241	
S103279-IFB1	QC		2		24D0240	24D0241	
S103279-IFA2	QC		3		24C0959	24D0241	
S103279-IFB2	QC		4		24D0240	24D0241	
S103279-CCV1	QC		5		24D0029	24D0241	
S103279-CCB1	QC		6		23J0970	24D0241	
B370707-BLK1	QC		7			24D0241	
B370707-BS1	QC		8			24D0241	
B370707-BSD1	QC		9			24D0241	
B370707-MS1	QC		10			24D0241	
B370707-MSD1	QC		11			24D0241	
B370707-PS1	QC		12			24D0241	
B370707-SRL1	QC		13			24D0241	
24D0735-04	Aluminum 6010 Dissolved	B	14			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Antimony 6010 Dissolved	B	15			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Arsenic 6010 Dissolved	B	16			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Barium 6010 Dissolved	B	17			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Beryllium 6010 Dissolved	B	18			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Cadmium 6010 Dissolved	B	19			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Calcium 6010 Dissolved	B	20			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Chromium 6010 Dissolved	B	21			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Cobalt 6010 Dissolved	B	22			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Copper 6010 Dissolved	B	23			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Iron 6010 Dissolved	B	24			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Lead 6010 Dissolved	B	25			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Magnesium 6010 Dissolved	B	26			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Manganese 6010 Dissolved	B	27			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Nickel 6010 Dissolved	B	28			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Potassium 6010 Dissolved	B	29			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Selenium 6010 Dissolved	B	30			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Silver 6010 Dissolved	B	31			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Sodium 6010 Dissolved	B	32			24D0241	FIELD FILTERED CAT B - Repo
24D0735-04	Thallium 6010 Dissolved	B	33			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-04	Vanadium 6010 Dissolved	B	34			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Aluminum 6010 Dissolved	B	35			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Antimony 6010 Dissolved	B	36			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Arsenic 6010 Dissolved	B	37			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Barium 6010 Dissolved	B	38			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Beryllium 6010 Dissolved	B	39			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Cadmium 6010 Dissolved	B	40			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Calcium 6010 Dissolved	B	41			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Chromium 6010 Dissolved	B	42			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Cobalt 6010 Dissolved	B	43			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Copper 6010 Dissolved	B	44			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Iron 6010 Dissolved	B	45			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Lead 6010 Dissolved	B	46			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Magnesium 6010 Dissolved	B	47			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Manganese 6010 Dissolved	B	48			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Nickel 6010 Dissolved	B	49			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Potassium 6010 Dissolved	B	50			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Selenium 6010 Dissolved	B	51			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Silver 6010 Dissolved	B	52			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Sodium 6010 Dissolved	B	53			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Thallium 6010 Dissolved	B	54			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Vanadium 6010 Dissolved	B	55			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Aluminum 6010 Dissolved	B	56			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Antimony 6010 Dissolved	B	57			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Arsenic 6010 Dissolved	B	58			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Barium 6010 Dissolved	B	59			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Beryllium 6010 Dissolved	B	60			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Cadmium 6010 Dissolved	B	61			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Calcium 6010 Dissolved	B	62			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Chromium 6010 Dissolved	B	63			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Cobalt 6010 Dissolved	B	64			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Copper 6010 Dissolved	B	65			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Iron 6010 Dissolved	B	66			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-05	Lead 6010 Dissolved	B	67			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Magnesium 6010 Dissolved	B	68			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Manganese 6010 Dissolved	B	69			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Nickel 6010 Dissolved	B	70			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Potassium 6010 Dissolved	B	71			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Selenium 6010 Dissolved	B	72			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Silver 6010 Dissolved	B	73			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Sodium 6010 Dissolved	B	74			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Thallium 6010 Dissolved	B	75			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Vanadium 6010 Dissolved	B	76			24D0241	FIELD FILTERED CAT B - Repo
S103279-CCV2	QC		77		24D0029	24D0241	
S103279-CCB2	QC		78		23J0970	24D0241	
24D0735-06	Aluminum 6010 Dissolved	B	79			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Antimony 6010 Dissolved	B	80			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Arsenic 6010 Dissolved	B	81			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Barium 6010 Dissolved	B	82			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Beryllium 6010 Dissolved	B	83			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Cadmium 6010 Dissolved	B	84			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Calcium 6010 Dissolved	B	85			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Chromium 6010 Dissolved	B	86			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Cobalt 6010 Dissolved	B	87			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Copper 6010 Dissolved	B	88			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Iron 6010 Dissolved	B	89			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Lead 6010 Dissolved	B	90			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Magnesium 6010 Dissolved	B	91			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Manganese 6010 Dissolved	B	92			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Nickel 6010 Dissolved	B	93			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Potassium 6010 Dissolved	B	94			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Selenium 6010 Dissolved	B	95			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Silver 6010 Dissolved	B	96			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Sodium 6010 Dissolved	B	97			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Thallium 6010 Dissolved	B	98			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Vanadium 6010 Dissolved	B	99			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-07	Aluminum 6010 Dissolved	A	100			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Antimony 6010 Dissolved	A	101			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Arsenic 6010 Dissolved	A	102			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Barium 6010 Dissolved	A	103			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Beryllium 6010 Dissolved	A	104			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Cadmium 6010 Dissolved	A	105			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Calcium 6010 Dissolved	A	106			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Chromium 6010 Dissolved	A	107			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Cobalt 6010 Dissolved	A	108			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Copper 6010 Dissolved	A	109			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Iron 6010 Dissolved	A	110			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Lead 6010 Dissolved	A	111			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Magnesium 6010 Dissolved	A	112			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Manganese 6010 Dissolved	A	113			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Nickel 6010 Dissolved	A	114			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Potassium 6010 Dissolved	A	115			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Selenium 6010 Dissolved	A	116			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Silver 6010 Dissolved	A	117			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Sodium 6010 Dissolved	A	118			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Thallium 6010 Dissolved	A	119			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Vanadium 6010 Dissolved	A	120			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Aluminum 6010 Dissolved	B	121			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Antimony 6010 Dissolved	B	122			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Arsenic 6010 Dissolved	B	123			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Barium 6010 Dissolved	B	124			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Beryllium 6010 Dissolved	B	125			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Cadmium 6010 Dissolved	B	126			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Calcium 6010 Dissolved	B	127			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Chromium 6010 Dissolved	B	128			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Cobalt 6010 Dissolved	B	129			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Copper 6010 Dissolved	B	130			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Iron 6010 Dissolved	B	131			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Lead 6010 Dissolved	B	132			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-08	Magnesium 6010 Dissolved	B	133			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Manganese 6010 Dissolved	B	134			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Nickel 6010 Dissolved	B	135			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Potassium 6010 Dissolved	B	136			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Selenium 6010 Dissolved	B	137			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Silver 6010 Dissolved	B	138			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Sodium 6010 Dissolved	B	139			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Thallium 6010 Dissolved	B	140			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Vanadium 6010 Dissolved	B	141			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Aluminum 6010 Dissolved	B	142			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Antimony 6010 Dissolved	B	143			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Arsenic 6010 Dissolved	B	144			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Barium 6010 Dissolved	B	145			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Beryllium 6010 Dissolved	B	146			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Cadmium 6010 Dissolved	B	147			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Calcium 6010 Dissolved	B	148			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Chromium 6010 Dissolved	B	149			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Cobalt 6010 Dissolved	B	150			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Copper 6010 Dissolved	B	151			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Iron 6010 Dissolved	B	152			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Lead 6010 Dissolved	B	153			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Magnesium 6010 Dissolved	B	154			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Manganese 6010 Dissolved	B	155			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Nickel 6010 Dissolved	B	156			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Potassium 6010 Dissolved	B	157			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Selenium 6010 Dissolved	B	158			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Silver 6010 Dissolved	B	159			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Sodium 6010 Dissolved	B	160			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Thallium 6010 Dissolved	B	161			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Vanadium 6010 Dissolved	B	162			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Aluminum 6010 Dissolved	B	163			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Antimony 6010 Dissolved	B	164			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Arsenic 6010 Dissolved	B	165			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-10	Barium 6010 Dissolved	B	166			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Beryllium 6010 Dissolved	B	167			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Cadmium 6010 Dissolved	B	168			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Calcium 6010 Dissolved	B	169			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Chromium 6010 Dissolved	B	170			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Cobalt 6010 Dissolved	B	171			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Copper 6010 Dissolved	B	172			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Iron 6010 Dissolved	B	173			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Lead 6010 Dissolved	B	174			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Magnesium 6010 Dissolved	B	175			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Manganese 6010 Dissolved	B	176			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Nickel 6010 Dissolved	B	177			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Potassium 6010 Dissolved	B	178			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Selenium 6010 Dissolved	B	179			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Silver 6010 Dissolved	B	180			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Sodium 6010 Dissolved	B	181			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Thallium 6010 Dissolved	B	182			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Vanadium 6010 Dissolved	B	183			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Aluminum 6010 Dissolved	A	184			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Antimony 6010 Dissolved	A	185			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Arsenic 6010 Dissolved	A	186			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Barium 6010 Dissolved	A	187			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Beryllium 6010 Dissolved	A	188			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Cadmium 6010 Dissolved	A	189			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Calcium 6010 Dissolved	A	190			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Chromium 6010 Dissolved	A	191			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Cobalt 6010 Dissolved	A	192			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Copper 6010 Dissolved	A	193			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Iron 6010 Dissolved	A	194			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Lead 6010 Dissolved	A	195			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Magnesium 6010 Dissolved	A	196			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Manganese 6010 Dissolved	A	197			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Nickel 6010 Dissolved	A	198			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-11	Potassium 6010 Dissolved	A	199			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Selenium 6010 Dissolved	A	200			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Silver 6010 Dissolved	A	201			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Sodium 6010 Dissolved	A	202			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Thallium 6010 Dissolved	A	203			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Vanadium 6010 Dissolved	A	204			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Aluminum 6010 Dissolved	A	205			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Antimony 6010 Dissolved	A	206			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Arsenic 6010 Dissolved	A	207			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Barium 6010 Dissolved	A	208			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Beryllium 6010 Dissolved	A	209			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Cadmium 6010 Dissolved	A	210			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Calcium 6010 Dissolved	A	211			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Chromium 6010 Dissolved	A	212			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Cobalt 6010 Dissolved	A	213			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Copper 6010 Dissolved	A	214			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Iron 6010 Dissolved	A	215			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Lead 6010 Dissolved	A	216			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Magnesium 6010 Dissolved	A	217			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Manganese 6010 Dissolved	A	218			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Nickel 6010 Dissolved	A	219			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Potassium 6010 Dissolved	A	220			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Selenium 6010 Dissolved	A	221			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Silver 6010 Dissolved	A	222			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Sodium 6010 Dissolved	A	223			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Thallium 6010 Dissolved	A	224			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Vanadium 6010 Dissolved	A	225			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Aluminum 6010 Dissolved	A	226			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Antimony 6010 Dissolved	A	227			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Arsenic 6010 Dissolved	A	228			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Barium 6010 Dissolved	A	229			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Beryllium 6010 Dissolved	A	230			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Cadmium 6010 Dissolved	A	231			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-13	Calcium 6010 Dissolved	A	232			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Chromium 6010 Dissolved	A	233			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Cobalt 6010 Dissolved	A	234			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Copper 6010 Dissolved	A	235			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Iron 6010 Dissolved	A	236			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Lead 6010 Dissolved	A	237			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Magnesium 6010 Dissolved	A	238			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Manganese 6010 Dissolved	A	239			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Nickel 6010 Dissolved	A	240			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Potassium 6010 Dissolved	A	241			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Selenium 6010 Dissolved	A	242			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Silver 6010 Dissolved	A	243			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Sodium 6010 Dissolved	A	244			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Thallium 6010 Dissolved	A	245			24D0241	FIELD FILTERED CAT B - Repo
24D0735-13	Vanadium 6010 Dissolved	A	246			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Aluminum 6010 Dissolved	A	247			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Antimony 6010 Dissolved	A	248			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Arsenic 6010 Dissolved	A	249			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Barium 6010 Dissolved	A	250			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Beryllium 6010 Dissolved	A	251			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Cadmium 6010 Dissolved	A	252			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Calcium 6010 Dissolved	A	253			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Chromium 6010 Dissolved	A	254			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Cobalt 6010 Dissolved	A	255			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Copper 6010 Dissolved	A	256			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Iron 6010 Dissolved	A	257			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Lead 6010 Dissolved	A	258			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Magnesium 6010 Dissolved	A	259			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Manganese 6010 Dissolved	A	260			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Nickel 6010 Dissolved	A	261			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Potassium 6010 Dissolved	A	262			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Selenium 6010 Dissolved	A	263			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Silver 6010 Dissolved	A	264			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-14	Sodium 6010 Dissolved	A	265			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Thallium 6010 Dissolved	A	266			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Vanadium 6010 Dissolved	A	267			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Aluminum 6010 Dissolved	B	268			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Antimony 6010 Dissolved	B	269			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Arsenic 6010 Dissolved	B	270			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Barium 6010 Dissolved	B	271			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Beryllium 6010 Dissolved	B	272			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Cadmium 6010 Dissolved	B	273			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Calcium 6010 Dissolved	B	274			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Chromium 6010 Dissolved	B	275			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Cobalt 6010 Dissolved	B	276			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Copper 6010 Dissolved	B	277			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Iron 6010 Dissolved	B	278			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Lead 6010 Dissolved	B	279			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Magnesium 6010 Dissolved	B	280			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Manganese 6010 Dissolved	B	281			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Nickel 6010 Dissolved	B	282			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Potassium 6010 Dissolved	B	283			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Selenium 6010 Dissolved	B	284			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Silver 6010 Dissolved	B	285			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Sodium 6010 Dissolved	B	286			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Thallium 6010 Dissolved	B	287			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Vanadium 6010 Dissolved	B	288			24D0241	FIELD FILTERED CAT B - Repo
S103279-CCV3	QC		289		24D0029	24D0241	
S103279-CCB3	QC		290		23J0970	24D0241	
24D0735-16	Aluminum 6010 Dissolved	A	291			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Antimony 6010 Dissolved	A	292			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Arsenic 6010 Dissolved	A	293			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Barium 6010 Dissolved	A	294			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Beryllium 6010 Dissolved	A	295			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Cadmium 6010 Dissolved	A	296			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Calcium 6010 Dissolved	A	297			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-16	Chromium 6010 Dissolved	A	298			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Cobalt 6010 Dissolved	A	299			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Copper 6010 Dissolved	A	300			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Iron 6010 Dissolved	A	301			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Lead 6010 Dissolved	A	302			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Magnesium 6010 Dissolved	A	303			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Manganese 6010 Dissolved	A	304			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Nickel 6010 Dissolved	A	305			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Potassium 6010 Dissolved	A	306			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Selenium 6010 Dissolved	A	307			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Silver 6010 Dissolved	A	308			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Sodium 6010 Dissolved	A	309			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Thallium 6010 Dissolved	A	310			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Vanadium 6010 Dissolved	A	311			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Aluminum 6010 Dissolved	B	312			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Antimony 6010 Dissolved	B	313			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Arsenic 6010 Dissolved	B	314			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Barium 6010 Dissolved	B	315			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Beryllium 6010 Dissolved	B	316			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Cadmium 6010 Dissolved	B	317			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Calcium 6010 Dissolved	B	318			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Chromium 6010 Dissolved	B	319			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Cobalt 6010 Dissolved	B	320			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Copper 6010 Dissolved	B	321			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Iron 6010 Dissolved	B	322			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Lead 6010 Dissolved	B	323			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Magnesium 6010 Dissolved	B	324			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Manganese 6010 Dissolved	B	325			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Nickel 6010 Dissolved	B	326			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Potassium 6010 Dissolved	B	327			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Selenium 6010 Dissolved	B	328			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Silver 6010 Dissolved	B	329			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Sodium 6010 Dissolved	B	330			24D0241	FIELD FILTERED CAT B - Repo

Samples Loaded By

Date

Data Processed By

Date

S103279

Instrument: ICP2

Calibration ID: 2400437

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24D0735-17	Thallium 6010 Dissolved	B	331			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Vanadium 6010 Dissolved	B	332			24D0241	FIELD FILTERED CAT B - Repo
S103279-CCV4	QC		333		24D0029	24D0241	
S103279-CCB4	QC		334		23J0970	24D0241	
S103279-IFA3	QC		335		24C0959	24D0241	
S103279-IFB3	QC		336		24D0240	24D0241	

Samples Loaded By

Date

Data Processed By

Date

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Analysis Begun

Start Time: 4/16/2024 11:27:00 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/16/2024 11:27:00 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 11:30:12 AM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 11

Autosampler Location: 7

Sample ID: RINSE

Date Collected: 4/16/2024 11:30:12 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

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Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4816534.5	101.2 %	0.58			0.57%
Y radial	185975.9	105.9 %	1.51			1.43%
Ag 328.068†	282.5	0.0011 mg/L	0.00014	0.0011 mg/L	0.00014	13.43%
Al 396.153†	19.4	0.0054 mg/L	0.00871	0.0054 mg/L	0.00871	162.16%
As 188.979†	8.0	0.0026 mg/L	0.00091	0.0026 mg/L	0.00091	35.39%
B 208.889†	7128.3	0.4275 mg/L	0.01406	0.4275 mg/L	0.01406	3.29%
Ba 233.527†	48.4	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	23.43%
Be 313.107†	30.9	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	43.40%
Ca 317.933†	65.6	0.0102 mg/L	0.00263	0.0102 mg/L	0.00263	25.74%
Cd 228.802†	64.7	0.0006 mg/L	0.00013	0.0006 mg/L	0.00013	23.03%
Co 228.616†	27.5	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	22.91%
Cr 267.716†	62.3	0.0005 mg/L	0.00003	0.0005 mg/L	0.00003	4.99%
Cu 327.393†	4391.6	0.0277 mg/L	0.00100	0.0277 mg/L	0.00100	3.60%
Fe 238.204†	29.0	0.0134 mg/L	0.00143	0.0134 mg/L	0.00143	10.63%
K 766.490†	66.4	0.0221 mg/L	0.01185	0.0221 mg/L	0.01185	53.53%
Mg 285.213†	31.9	0.0041 mg/L	0.00059	0.0041 mg/L	0.00059	14.44%
Mn 257.610†	11.9	0.0005 mg/L	0.00016	0.0005 mg/L	0.00016	30.84%
Mo 202.031†	8.4	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	51.13%
Na 589.592†	924.4	0.0881 mg/L	0.00503	0.0881 mg/L	0.00503	5.71%
Ni 231.604†	3.3	0.0001 mg/L	0.00012	0.0001 mg/L	0.00012	125.83%
Pb 220.353†	19.2	0.0017 mg/L	0.00049	0.0017 mg/L	0.00049	29.43%
Sb 206.836†	7.9	0.0014 mg/L	0.00079	0.0014 mg/L	0.00079	56.81%
Se 196.026†	3.3	0.0019 mg/L	0.00070	0.0019 mg/L	0.00070	36.88%
Sn 189.927†	0.5	0.0001 mg/L	0.00049	0.0001 mg/L	0.00049	754.98%

Ti 337.279†	-21.0	-0.0012 mg/L	0.00030	-0.0012 mg/L	0.00030	24.91%
Tl 351.924†	-73.6	-0.0068 mg/L	0.00447	-0.0068 mg/L	0.00447	65.91%
V 290.880†	79.3	0.0004 mg/L	0.00034	0.0004 mg/L	0.00034	85.88%
Zn 206.200†	877.4	0.0134 mg/L	0.00027	0.0134 mg/L	0.00027	2.04%
Zr 343.823†	12.7	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	206.12%

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/16/2024 11:35:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4716015.6	99.12	%	4.757				4.80%
Y radial	183611.5	104.5	%	1.61				1.54%
Ag 328.068†	264.8	0.0010 mg/L		0.00022	0.0010 mg/L		0.00022	21.72%
Al 396.153†	-4.2	-0.0012 mg/L		0.00777	-0.0012 mg/L		0.00777	653.20%
As 188.979†	7.8	0.0025 mg/L		0.00161	0.0025 mg/L		0.00161	63.54%
B 208.889†	4982.2	0.2988 mg/L		0.01812	0.2988 mg/L		0.01812	6.07%
Ba 233.527†	25.9	0.0002 mg/L		0.00004	0.0002 mg/L		0.00004	24.25%
Be 313.107†	77.5	0.0002 mg/L		0.00009	0.0002 mg/L		0.00009	47.15%
Ca 317.933†	19.7	0.0031 mg/L		0.00279	0.0031 mg/L		0.00279	90.91%
Cd 228.802†	43.1	0.0004 mg/L		0.00010	0.0004 mg/L		0.00010	26.85%
Co 228.616†	9.2	0.0001 mg/L		0.00007	0.0001 mg/L		0.00007	69.51%
Cr 267.716†	34.9	0.0003 mg/L		0.00015	0.0003 mg/L		0.00015	51.76%
Cu 327.393†	2510.1	0.0159 mg/L		0.00122	0.0159 mg/L		0.00122	7.70%
Fe 238.204†	14.8	0.0068 mg/L		0.00090	0.0068 mg/L		0.00090	13.13%
K 766.490†	127.6	0.0425 mg/L		0.01118	0.0425 mg/L		0.01118	26.30%
Mg 285.213†	17.0	0.0022 mg/L		0.00021	0.0022 mg/L		0.00021	9.73%
Mn 257.610†	8.6	0.0004 mg/L		0.00026	0.0004 mg/L		0.00026	67.83%
Mo 202.031†	6.9	0.0003 mg/L		0.00022	0.0003 mg/L		0.00022	74.59%
Na 589.592†	546.7	0.0521 mg/L		0.00810	0.0521 mg/L		0.00810	15.55%
Ni 231.604†	-0.2	0.0000 mg/L		0.00028	0.0000 mg/L		0.00028	>999.9%
Pb 220.353†	17.9	0.0016 mg/L		0.00005	0.0016 mg/L		0.00005	3.42%
Sb 206.836†	4.9	0.0009 mg/L		0.00088	0.0009 mg/L		0.00088	101.06%
Se 196.026†	6.3	0.0037 mg/L		0.00296	0.0037 mg/L		0.00296	80.93%
Sn 189.927†	0.7	0.0001 mg/L		0.00025	0.0001 mg/L		0.00025	262.26%
Ti 337.279†	-8.8	-0.0005 mg/L		0.00017	-0.0005 mg/L		0.00017	32.49%
Tl 351.924†	-89.6	-0.0083 mg/L		0.00280	-0.0083 mg/L		0.00280	33.87%
V 290.880†	327.0	0.0016 mg/L		0.00113	0.0016 mg/L		0.00113	70.15%
Zn 206.200†	594.9	0.0091 mg/L		0.00056	0.0091 mg/L		0.00056	6.16%
Zr 343.823†	-12.8	-0.0000 mg/L		0.00007	-0.0000 mg/L		0.00007	215.81%

Sequence No.: 13

Sample ID: 24D0681-12

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 38

Date Collected: 4/16/2024 11:41:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0681-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4748170.4	99.79	%	0.840				0.84%
Y radial	186268.6	106.0	%	0.87				0.82%
Ag 328.068†	280.9	0.0010 mg/L		0.00018	0.0010 mg/L		0.00018	17.28%
Al 396.153†	123.6	0.0343 mg/L		0.00940	0.0343 mg/L		0.00940	27.41%
As 188.979†	1.9	0.0007 mg/L		0.00325	0.0007 mg/L		0.00325	438.19%
B 208.889†	5553.3	0.3330 mg/L		0.00097	0.3330 mg/L		0.00097	0.29%
Ba 233.527†	8538.5	0.0547 mg/L		0.00049	0.0547 mg/L		0.00049	0.90%
Be 313.107†	17.6	0.0000 mg/L		0.00003	0.0000 mg/L		0.00003	85.05%
Ca 317.933†	94527.5	14.72 mg/L		0.019	14.72 mg/L		0.019	0.13%
Cd 228.802†	35.2	0.0003 mg/L		0.00013	0.0003 mg/L		0.00013	37.83%

Co 228.616†	33.1	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	10.57%
Cr 267.716†	2356.6	0.0201 mg/L	0.00017	0.0201 mg/L	0.00017	0.87%
Cu 327.393†	3024.5	0.0191 mg/L	0.00010	0.0191 mg/L	0.00010	0.55%
Fe 238.204†	153.9	0.0711 mg/L	0.00052	0.0711 mg/L	0.00052	0.74%
K 766.490†	26433.5	8.809 mg/L	0.1346	8.809 mg/L	0.1346	1.53%
Mg 285.213†	60758.4	7.714 mg/L	0.0906	7.714 mg/L	0.0906	1.17%
Mn 257.610†	59.9	0.0026 mg/L	0.00014	0.0026 mg/L	0.00014	5.45%
Mo 202.031†	30.2	0.0013 mg/L	0.00017	0.0013 mg/L	0.00017	13.04%
Na 589.592†	202213.6	19.27 mg/L	0.071	19.27 mg/L	0.071	0.37%
Ni 231.604†	125.2	0.0035 mg/L	0.00030	0.0035 mg/L	0.00030	8.77%
Pb 220.353†	24.0	0.0021 mg/L	0.00011	0.0021 mg/L	0.00011	5.32%
Sb 206.836†	18.9	0.0029 mg/L	0.00113	0.0029 mg/L	0.00113	39.50%
Se 196.026†	9.0	0.0022 mg/L	0.00154	0.0022 mg/L	0.00154	70.25%
Sn 189.927†	-146.6	-0.0187 mg/L	0.00033	-0.0187 mg/L	0.00033	1.75%
Ti 337.279†	15.0	0.0009 mg/L	0.00036	0.0009 mg/L	0.00036	41.59%
Tl 351.924†	-78.9	-0.0072 mg/L	0.00302	-0.0072 mg/L	0.00302	41.64%
V 290.880†	562.1	0.0028 mg/L	0.00041	0.0028 mg/L	0.00041	14.73%
Zn 206.200†	978.5	0.0135 mg/L	0.00021	0.0135 mg/L	0.00021	1.55%
Zr 343.823†	630.6	0.0016 mg/L	0.00017	0.0016 mg/L	0.00017	10.91%

Sequence No.: 14

Sample ID: 24D0681-13

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 39

Date Collected: 4/16/2024 11:46:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0681-13

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4805088.3	101.0 %		0.92			0.91%
Y radial	186516.2	106.2 %		0.68			0.64%
Ag 328.068†	336.3	0.0014 mg/L		0.00023	0.0014 mg/L	0.00023	17.25%
Al 396.153†	15654.0	4.352 mg/L		0.0340	4.352 mg/L	0.0340	0.78%
As 188.979†	-6.7	0.0003 mg/L		0.00085	0.0003 mg/L	0.00085	306.90%
B 208.889†	3999.5	0.2393 mg/L		0.00529	0.2393 mg/L	0.00529	2.21%
Ba 233.527†	14109.8	0.0897 mg/L		0.00122	0.0897 mg/L	0.00122	1.36%
Be 313.107†	118.1	0.0002 mg/L		0.00003	0.0002 mg/L	0.00003	13.71%
Ca 317.933†	93422.9	14.55 mg/L		0.051	14.55 mg/L	0.051	0.35%
Cd 228.802†	17.8	0.0003 mg/L		0.00005	0.0003 mg/L	0.00005	14.59%
Co 228.616†	654.6	0.0067 mg/L		0.00006	0.0067 mg/L	0.00006	0.88%
Cr 267.716†	16141.3	0.1373 mg/L		0.00106	0.1373 mg/L	0.00106	0.77%
Cu 327.393†	5265.4	0.0333 mg/L		0.00063	0.0333 mg/L	0.00063	1.89%
Fe 238.204†	12144.1	5.612 mg/L		0.0418	5.612 mg/L	0.0418	0.74%
K 766.490†	12945.8	4.314 mg/L		0.0123	4.314 mg/L	0.0123	0.29%
Mg 285.213†	55415.2	7.040 mg/L		0.0240	7.040 mg/L	0.0240	0.34%
Mn 257.610†	4210.1	0.1864 mg/L		0.00123	0.1864 mg/L	0.00123	0.66%
Mo 202.031†	262.5	0.0114 mg/L		0.00025	0.0114 mg/L	0.00025	2.21%
Na 589.592†	213002.7	20.30 mg/L		0.128	20.30 mg/L	0.128	0.63%
Ni 231.604†	2308.0	0.0640 mg/L		0.00071	0.0640 mg/L	0.00071	1.11%
Pb 220.353†	66.0	0.0062 mg/L		0.00070	0.0062 mg/L	0.00070	11.35%
Sb 206.836†	24.9	0.0020 mg/L		0.00016	0.0020 mg/L	0.00016	8.09%
Se 196.026†	8.9	0.0024 mg/L		0.00213	0.0024 mg/L	0.00213	88.99%
Sn 189.927†	-138.9	-0.0177 mg/L		0.00052	-0.0177 mg/L	0.00052	2.93%
Ti 337.279†	2368.9	0.1377 mg/L		0.00122	0.1377 mg/L	0.00122	0.89%
Tl 351.924†	-134.7	-0.0093 mg/L		0.00349	-0.0093 mg/L	0.00349	37.60%
V 290.880†	2088.8	0.0100 mg/L		0.00033	0.0100 mg/L	0.00033	3.28%
Zn 206.200†	5673.4	0.0857 mg/L		0.00166	0.0857 mg/L	0.00166	1.94%
Zr 343.823†	489.2	0.0011 mg/L		0.00007	0.0011 mg/L	0.00007	6.03%

Sequence No.: 15

Sample ID: 24D0681-15

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 40

Date Collected: 4/16/2024 11:52:22 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0681-15

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4853709.3	102.0	%	1.37				1.35%
Y radial	186417.7	106.1	%	1.37				1.29%
Ag 328.068†	341.8	0.0013	mg/L	0.00011	0.0013	mg/L	0.00011	8.90%
Al 396.153†	4.1	0.0011	mg/L	0.00494	0.0011	mg/L	0.00494	434.78%
As 188.979†	-0.5	-0.0003	mg/L	0.00088	-0.0003	mg/L	0.00088	333.97%
B 208.889†	2665.5	0.1598	mg/L	0.00329	0.1598	mg/L	0.00329	2.06%
Ba 233.527†	37.9	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	7.35%
Be 313.107†	-19.1	-0.0000	mg/L	0.00006	-0.0000	mg/L	0.00006	115.38%
Ca 317.933†	295.4	0.0460	mg/L	0.00464	0.0460	mg/L	0.00464	10.09%
Cd 228.802†	6.0	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	58.29%
Co 228.616†	23.9	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	25.45%
Cr 267.716†	688.1	0.0059	mg/L	0.00009	0.0059	mg/L	0.00009	1.57%
Cu 327.393†	1748.5	0.0110	mg/L	0.00027	0.0110	mg/L	0.00027	2.44%
Fe 238.204†	103.6	0.0479	mg/L	0.00188	0.0479	mg/L	0.00188	3.93%
K 766.490†	-11.8	-0.0039	mg/L	0.00060	-0.0039	mg/L	0.00060	15.21%
Mg 285.213†	59.5	0.0076	mg/L	0.00044	0.0076	mg/L	0.00044	5.84%
Mn 257.610†	20.7	0.0009	mg/L	0.00015	0.0009	mg/L	0.00015	16.90%
Mo 202.031†	5.8	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	47.79%
Na 589.592†	905.6	0.0863	mg/L	0.00141	0.0863	mg/L	0.00141	1.64%
Ni 231.604†	21.1	0.0006	mg/L	0.00019	0.0006	mg/L	0.00019	32.92%
Pb 220.353†	7.8	0.0007	mg/L	0.00084	0.0007	mg/L	0.00084	125.26%
Sb 206.836†	7.3	0.0012	mg/L	0.00035	0.0012	mg/L	0.00035	29.81%
Se 196.026†	-1.8	-0.0011	mg/L	0.00235	-0.0011	mg/L	0.00235	221.93%
Sn 189.927†	5.0	0.0006	mg/L	0.00025	0.0006	mg/L	0.00025	38.48%
Ti 337.279†	-14.1	-0.0008	mg/L	0.00023	-0.0008	mg/L	0.00023	28.34%
Tl 351.924†	-74.4	-0.0068	mg/L	0.00386	-0.0068	mg/L	0.00386	56.56%
V 290.880†	55.1	0.0003	mg/L	0.00043	0.0003	mg/L	0.00043	162.06%
Zn 206.200†	477.3	0.0073	mg/L	0.00019	0.0073	mg/L	0.00019	2.56%
Zr 343.823†	-47.9	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	155.76%

Sequence No.: 16

Sample ID: 24D0932-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 41

Date Collected: 4/16/2024 11:57:53 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0932-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4736280.4	99.54	%	1.027				1.03%
Y radial	183211.3	104.3	%	1.48				1.42%
Ag 328.068†	256.9	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	7.76%
Al 396.153†	8.9	0.0024	mg/L	0.00548	0.0024	mg/L	0.00548	225.65%
As 188.979†	-6.6	-0.0021	mg/L	0.00215	-0.0021	mg/L	0.00215	101.81%
B 208.889†	3884.9	0.2329	mg/L	0.00417	0.2329	mg/L	0.00417	1.79%
Ba 233.527†	8290.7	0.0531	mg/L	0.00052	0.0531	mg/L	0.00052	0.98%
Be 313.107†	-11.5	-0.0000	mg/L	0.00004	-0.0000	mg/L	0.00004	123.91%
Ca 317.933†	105644.2	16.45	mg/L	0.070	16.45	mg/L	0.070	0.43%
Cd 228.802†	16.8	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	33.83%
Co 228.616†	32.1	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	14.24%
Cr 267.716†	1861.9	0.0159	mg/L	0.00012	0.0159	mg/L	0.00012	0.73%
Cu 327.393†	1186.5	0.0075	mg/L	0.00032	0.0075	mg/L	0.00032	4.26%
Fe 238.204†	19.7	0.0091	mg/L	0.00026	0.0091	mg/L	0.00026	2.82%
K 766.490†	4620.8	1.540	mg/L	0.0385	1.540	mg/L	0.0385	2.50%
Mg 285.213†	74689.1	9.483	mg/L	0.1172	9.483	mg/L	0.1172	1.24%
Mn 257.610†	85.9	0.0038	mg/L	0.00016	0.0038	mg/L	0.00016	4.23%
Mo 202.031†	16.2	0.0007	mg/L	0.00028	0.0007	mg/L	0.00028	40.41%
Na 589.592†	236149.4	22.50	mg/L	0.052	22.50	mg/L	0.052	0.23%
Ni 231.604†	60.7	0.0017	mg/L	0.00007	0.0017	mg/L	0.00007	3.89%
Pb 220.353†	21.2	0.0019	mg/L	0.00082	0.0019	mg/L	0.00082	44.04%
Sb 206.836†	15.8	0.0024	mg/L	0.00023	0.0024	mg/L	0.00023	9.66%
Se 196.026†	9.8	0.0021	mg/L	0.00046	0.0021	mg/L	0.00046	21.84%
Sn 189.927†	-159.3	-0.0203	mg/L	0.00056	-0.0203	mg/L	0.00056	2.78%

Ti 337.279†	-8.8	-0.0005 mg/L	0.00039	-0.0005 mg/L	0.00039	76.74%
Tl 351.924†	-50.1	-0.0046 mg/L	0.00214	-0.0046 mg/L	0.00214	46.41%
V 290.880†	314.0	0.0016 mg/L	0.00034	0.0016 mg/L	0.00034	21.89%
Zn 206.200†	302.3	0.0028 mg/L	0.00022	0.0028 mg/L	0.00022	7.61%
Zr 343.823†	357.6	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	2.68%

Sequence No.: 17
Sample ID: 24D0932-02
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 42
Date Collected: 4/16/2024 12:03:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0932-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4747170.0	99.77 %		0.226				0.23%
Y radial	185219.2	105.4 %		0.77				0.73%
Ag 328.068†	333.2	0.0013 mg/L		0.00033	0.0013 mg/L		0.00033	26.42%
Al 396.153†	31.1	0.0086 mg/L		0.00346	0.0086 mg/L		0.00346	40.19%
As 188.979†	-7.1	-0.0021 mg/L		0.00136	-0.0021 mg/L		0.00136	63.89%
B 208.889†	2864.7	0.1718 mg/L		0.00129	0.1718 mg/L		0.00129	0.75%
Ba 233.527†	15743.5	0.1009 mg/L		0.00074	0.1009 mg/L		0.00074	0.73%
Be 313.107†	-13.9	-0.0000 mg/L		0.00001	-0.0000 mg/L		0.00001	24.05%
Ca 317.933†	126656.2	19.72 mg/L		0.095	19.72 mg/L		0.095	0.48%
Cd 228.802†	12.1	0.0002 mg/L		0.00006	0.0002 mg/L		0.00006	36.11%
Co 228.616†	40.5	0.0004 mg/L		0.00008	0.0004 mg/L		0.00008	18.00%
Cr 267.716†	279.0	0.0024 mg/L		0.00003	0.0024 mg/L		0.00003	1.15%
Cu 327.393†	941.9	0.0060 mg/L		0.00015	0.0060 mg/L		0.00015	2.48%
Fe 238.204†	26.9	0.0125 mg/L		0.00118	0.0125 mg/L		0.00118	9.45%
K 766.490†	7631.9	2.543 mg/L		0.0304	2.543 mg/L		0.0304	1.19%
Mg 285.213†	65906.5	8.366 mg/L		0.1476	8.366 mg/L		0.1476	1.76%
Mn 257.610†	22.0	0.0010 mg/L		0.00011	0.0010 mg/L		0.00011	11.23%
Mo 202.031†	16.7	0.0007 mg/L		0.00008	0.0007 mg/L		0.00008	10.57%
Na 589.952†	212486.7	20.25 mg/L		0.145	20.25 mg/L		0.145	0.72%
Ni 231.604†	182.4	0.0051 mg/L		0.00029	0.0051 mg/L		0.00029	5.73%
Pb 220.353†	28.7	0.0025 mg/L		0.00047	0.0025 mg/L		0.00047	18.66%
Sb 206.836†	14.6	0.0024 mg/L		0.00134	0.0024 mg/L		0.00134	55.01%
Se 196.026†	3.7	-0.0015 mg/L		0.00166	-0.0015 mg/L		0.00166	107.95%
Sn 189.927†	-172.3	-0.0220 mg/L		0.00058	-0.0220 mg/L		0.00058	2.62%
Ti 337.279†	-7.6	-0.0004 mg/L		0.00030	-0.0004 mg/L		0.00030	68.41%
Tl 351.924†	-100.1	-0.0092 mg/L		0.00491	-0.0092 mg/L		0.00491	53.17%
V 290.880†	593.5	0.0029 mg/L		0.00007	0.0029 mg/L		0.00007	2.31%
Zn 206.200†	563.6	0.0069 mg/L		0.00013	0.0069 mg/L		0.00013	1.93%
Zr 343.823†	121.8	0.0003 mg/L		0.00009	0.0003 mg/L		0.00009	30.10%

Sequence No.: 18
Sample ID: 24D0932-03
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 43
Date Collected: 4/16/2024 12:09:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0932-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4724047.1	99.29 %		1.068				1.08%
Y radial	185014.4	105.3 %		1.79				1.70%
Ag 328.068†	284.2	0.0011 mg/L		0.00026	0.0011 mg/L		0.00026	23.96%
Al 396.153†	4.6	0.0012 mg/L		0.00550	0.0012 mg/L		0.00550	443.04%
As 188.979†	-8.5	-0.0026 mg/L		0.00131	-0.0026 mg/L		0.00131	50.86%
B 208.889†	2827.0	0.1695 mg/L		0.00135	0.1695 mg/L		0.00135	0.79%
Ba 233.527†	26253.2	0.1682 mg/L		0.00313	0.1682 mg/L		0.00313	1.86%
Be 313.107†	-18.1	-0.0001 mg/L		0.00007	-0.0001 mg/L		0.00007	116.04%
Ca 317.933†	144979.5	22.58 mg/L		0.246	22.58 mg/L		0.246	1.09%
Cd 228.802†	13.1	0.0002 mg/L		0.00005	0.0002 mg/L		0.00005	26.58%

Co 228.616†	34.1	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	23.56%
Cr 267.716†	341.3	0.0029 mg/L	0.00020	0.0029 mg/L	0.00020	6.95%
Cu 327.393†	867.0	0.0055 mg/L	0.00014	0.0055 mg/L	0.00014	2.54%
Fe 238.204†	20.1	0.0093 mg/L	0.00038	0.0093 mg/L	0.00038	4.08%
K 766.490†	6823.3	2.274 mg/L	0.0341	2.274 mg/L	0.0341	1.50%
Mg 285.213†	93286.3	11.84 mg/L	0.102	11.84 mg/L	0.102	0.86%
Mn 257.610†	30.0	0.0013 mg/L	0.00018	0.0013 mg/L	0.00018	13.38%
Mo 202.031†	20.7	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	6.10%
Na 589.592†	285605.8	27.22 mg/L	0.126	27.22 mg/L	0.126	0.46%
Ni 231.604†	61.0	0.0017 mg/L	0.00009	0.0017 mg/L	0.00009	5.57%
Pb 220.353†	25.6	0.0023 mg/L	0.00025	0.0023 mg/L	0.00025	10.91%
Sb 206.836†	12.0	0.0019 mg/L	0.00012	0.0019 mg/L	0.00012	5.95%
Se 196.026†	10.1	0.0012 mg/L	0.00202	0.0012 mg/L	0.00202	172.98%
Sn 189.927†	-192.2	-0.0245 mg/L	0.00045	-0.0245 mg/L	0.00045	1.84%
Ti 337.279†	-7.1	-0.0004 mg/L	0.00018	-0.0004 mg/L	0.00018	43.99%
Tl 351.924†	-44.0	-0.0041 mg/L	0.00601	-0.0041 mg/L	0.00601	148.12%
V 290.880†	508.1	0.0025 mg/L	0.00053	0.0025 mg/L	0.00053	21.26%
Zn 206.200†	554.3	0.0062 mg/L	0.00010	0.0062 mg/L	0.00010	1.59%
Zr 343.823†	72.8	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	33.29%

Sequence No.: 19

Sample ID: 24D0932-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 44

Date Collected: 4/16/2024 12:14:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0932-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4772386.6	100.3 %		0.30			0.30%
Y radial	188514.9	107.3 %		1.54			1.44%
Ag 328.068†	352.1	0.0013 mg/L		0.00008	0.0013 mg/L	0.00008	6.70%
Al 396.153†	13.8	0.0037 mg/L		0.00662	0.0037 mg/L	0.00662	178.09%
As 188.979†	-8.2	-0.0025 mg/L		0.00100	-0.0025 mg/L	0.00100	40.46%
B 208.889†	2775.2	0.1663 mg/L		0.00121	0.1663 mg/L	0.00121	0.73%
Ba 233.527†	12150.1	0.0778 mg/L		0.00040	0.0778 mg/L	0.00040	0.52%
Be 313.107†	-27.2	-0.0001 mg/L		0.00005	-0.0001 mg/L	0.00005	68.26%
Ca 317.933†	139256.5	21.68 mg/L		0.133	21.68 mg/L	0.133	0.61%
Cd 228.802†	11.4	0.0002 mg/L		0.00004	0.0002 mg/L	0.00004	19.35%
Co 228.616†	260.6	0.0028 mg/L		0.00008	0.0028 mg/L	0.00008	2.77%
Cr 267.716†	202.3	0.0016 mg/L		0.00007	0.0016 mg/L	0.00007	4.03%
Cu 327.393†	1032.5	0.0065 mg/L		0.00021	0.0065 mg/L	0.00021	3.29%
Fe 238.204†	48.0	0.0222 mg/L		0.00103	0.0222 mg/L	0.00103	4.63%
K 766.490†	4904.9	1.635 mg/L		0.0223	1.635 mg/L	0.0223	1.37%
Mg 285.213†	39969.0	5.071 mg/L		0.0202	5.071 mg/L	0.0202	0.40%
Mn 257.610†	5460.3	0.2412 mg/L		0.00116	0.2412 mg/L	0.00116	0.48%
Mo 202.031†	69.0	0.0030 mg/L		0.00023	0.0030 mg/L	0.00023	7.67%
Na 589.592†	205779.3	19.61 mg/L		0.108	19.61 mg/L	0.108	0.55%
Ni 231.604†	696.7	0.0193 mg/L		0.00019	0.0193 mg/L	0.00019	0.98%
Pb 220.353†	27.3	0.0024 mg/L		0.00096	0.0024 mg/L	0.00096	40.14%
Sb 206.836†	16.8	0.0028 mg/L		0.00095	0.0028 mg/L	0.00095	33.48%
Se 196.026†	3.7	-0.0012 mg/L		0.00018	-0.0012 mg/L	0.00018	15.20%
Sn 189.927†	-174.4	-0.0222 mg/L		0.00060	-0.0222 mg/L	0.00060	2.70%
Ti 337.279†	-9.8	-0.0006 mg/L		0.00021	-0.0006 mg/L	0.00021	36.93%
Tl 351.924†	-76.8	-0.0071 mg/L		0.00232	-0.0071 mg/L	0.00232	32.77%
V 290.880†	394.1	0.0019 mg/L		0.00003	0.0019 mg/L	0.00003	1.50%
Zn 206.200†	1386.7	0.0195 mg/L		0.00018	0.0195 mg/L	0.00018	0.93%
Zr 343.823†	114.0	0.0003 mg/L		0.00016	0.0003 mg/L	0.00016	55.18%

Sequence No.: 20

Sample ID: 24D0932-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 45

Date Collected: 4/16/2024 12:20:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0932-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4803828.7	101.0 %	0.59			0.58%
Y radial	185233.8	105.5 %	1.16			1.10%
Ag 328.068†	232.8	0.0009 mg/L	0.00035	0.0009 mg/L	0.00035	40.79%
Al 396.153†	132.7	0.0369 mg/L	0.00119	0.0369 mg/L	0.00119	3.23%
As 188.979†	-5.2	-0.0017 mg/L	0.00225	-0.0017 mg/L	0.00225	133.14%
B 208.889†	2338.2	0.1401 mg/L	0.00174	0.1401 mg/L	0.00174	1.24%
Ba 233.527†	14621.0	0.0936 mg/L	0.00034	0.0936 mg/L	0.00034	0.36%
Be 313.107†	-11.5	-0.0000 mg/L	0.00004	-0.0000 mg/L	0.00004	104.83%
Ca 317.933†	119837.0	18.66 mg/L	0.033	18.66 mg/L	0.033	0.18%
Cd 228.802†	-13.1	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	226.75%
Co 228.616†	319.6	0.0033 mg/L	0.00003	0.0033 mg/L	0.00003	0.81%
Cr 267.716†	9600.4	0.0817 mg/L	0.00038	0.0817 mg/L	0.00038	0.47%
Cu 327.393†	4281.7	0.0270 mg/L	0.00029	0.0270 mg/L	0.00029	1.06%
Fe 238.204†	1108.7	0.5124 mg/L	0.00610	0.5124 mg/L	0.00610	1.19%
K 766.490†	9501.9	3.167 mg/L	0.0281	3.167 mg/L	0.0281	0.89%
Mg 285.213†	69513.0	8.825 mg/L	0.0012	8.825 mg/L	0.0012	0.01%
Mn 257.610†	1837.6	0.0812 mg/L	0.00105	0.0812 mg/L	0.00105	1.29%
Mo 202.031†	38.8	0.0017 mg/L	0.00009	0.0017 mg/L	0.00009	5.36%
Na 589.592†	277698.7	26.46 mg/L	0.020	26.46 mg/L	0.020	0.08%
Ni 231.604†	5889.2	0.1632 mg/L	0.00115	0.1632 mg/L	0.00115	0.70%
Pb 220.353†	20.3	0.0018 mg/L	0.00022	0.0018 mg/L	0.00022	12.15%
Sb 206.836†	21.7	0.0022 mg/L	0.00056	0.0022 mg/L	0.00056	25.79%
Se 196.026†	5.9	-0.0003 mg/L	0.00252	-0.0003 mg/L	0.00252	893.25%
Sn 189.927†	-169.7	-0.0216 mg/L	0.00045	-0.0216 mg/L	0.00045	2.10%
Ti 337.279†	10.3	0.0006 mg/L	0.00029	0.0006 mg/L	0.00029	47.89%
Tl 351.924†	-86.2	-0.0076 mg/L	0.00224	-0.0076 mg/L	0.00224	29.34%
V 290.880†	351.0	0.0017 mg/L	0.00020	0.0017 mg/L	0.00020	11.88%
Zn 206.200†	1099.9	0.0152 mg/L	0.00011	0.0152 mg/L	0.00011	0.70%
Zr 343.823†	76.6	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	33.37%

Sequence No.: 21

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 11

Date Collected: 4/16/2024 12:25:56 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4377873.3	92.01 %	0.758			0.82%
Y radial	177855.7	101.3 %	0.98			0.96%
Ag 328.068†	-1666.9	-0.0042 mg/L	0.00010	-0.0042 mg/L	0.00010	2.32%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	922342.0	256.4 mg/L	1.36	256.4 mg/L	1.36	0.53%
QC value within limits for Al 396.153 Recovery = 102.58%						
As 188.979†	-98.8	0.0003 mg/L	0.00221	0.0003 mg/L	0.00221	683.27%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	1028.3	0.0619 mg/L	0.00123	0.0619 mg/L	0.00123	1.98%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	1530.8	-0.0030 mg/L	0.00003	-0.0030 mg/L	0.00003	1.07%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	43.5	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	42.36%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	1565019.5	243.7 mg/L	0.55	243.7 mg/L	0.55	0.23%
QC value within limits for Ca 317.933 Recovery = 97.48%						
Cd 228.802†	-125.1	0.0008 mg/L	0.00008	0.0008 mg/L	0.00008	9.92%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-34.4	-0.0004 mg/L	0.00018	-0.0004 mg/L	0.00018	45.89%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	267.0	0.0023 mg/L	0.00018	0.0023 mg/L	0.00018	7.70%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-276.9	-0.0017 mg/L	0.00008	-0.0017 mg/L	0.00008	4.62%
QC value within limits for Cu 327.393 Recovery = Not calculated						

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Fe 238.204†	209395.0	96.77 mg/L	0.360	96.77 mg/L	0.360	0.37%
QC value within limits for Fe 238.204 Recovery = 96.77%						
K 766.490†	-26.4	-0.0088 mg/L	0.00315	-0.0088 mg/L	0.00315	35.80%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1825189.7	231.9 mg/L	1.05	231.9 mg/L	1.05	0.45%
QC value within limits for Mg 285.213 Recovery = 92.74%						
Mn 257.610†	-77.8	-0.0041 mg/L	0.00015	0.0041 mg/L	0.00015	3.60%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-100.2	-0.0043 mg/L	0.00027	-0.0043 mg/L	0.00027	6.33%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	774.5	0.0738 mg/L	0.00207	0.0738 mg/L	0.00207	2.80%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	245.5	0.0069 mg/L	0.00046	0.0069 mg/L	0.00046	6.72%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-274.1	0.0045 mg/L	0.00063	0.0045 mg/L	0.00063	14.07%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	28.7	0.0092 mg/L	0.00078	0.0092 mg/L	0.00078	8.52%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	63.1	-0.0314 mg/L	0.00168	-0.0314 mg/L	0.00168	5.36%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-538.2	-0.0686 mg/L	0.00091	-0.0686 mg/L	0.00091	1.33%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	6.9	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	18.78%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-795.4	-0.0105 mg/L	0.00081	-0.0105 mg/L	0.00081	7.79%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	1102.4	-0.0016 mg/L	0.00028	-0.0016 mg/L	0.00028	17.64%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	267.3	-0.0027 mg/L	0.00020	-0.0027 mg/L	0.00020	7.32%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	1178.4	0.0007 mg/L	0.00008	0.0007 mg/L	0.00008	11.65%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 22

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/16/2024 12:31:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4369252.8	91.83 %	1.590			1.73%
Y radial	175748.2	100.1 %	2.97			2.97%
Ag 328.068†	108044.9	0.4093 mg/L	0.00557	0.4093 mg/L	0.00557	1.36%
QC value within limits for Ag 328.068 Recovery = 102.32%						
Al 396.153†	908444.4	252.6 mg/L	8.58	252.6 mg/L	8.58	3.40%
QC value within limits for Al 396.153 Recovery = 101.03%						
As 188.979†	470.9	0.1904 mg/L	0.00422	0.1904 mg/L	0.00422	2.22%
QC value within limits for As 188.979 Recovery = 95.21%						
B 208.889†	862.0	0.0519 mg/L	0.00147	0.0519 mg/L	0.00147	2.82%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	153553.0	0.9724 mg/L	0.01472	0.9724 mg/L	0.01472	1.51%
QC value within limits for Ba 233.527 Recovery = 97.24%						
Be 313.107†	397772.9	0.9832 mg/L	0.03391	0.9832 mg/L	0.03391	3.45%
QC value within limits for Be 313.107 Recovery = 98.32%						
Ca 317.933†	1540108.5	239.8 mg/L	7.86	239.8 mg/L	7.86	3.28%
QC value within limits for Ca 317.933 Recovery = 95.93%						
Cd 228.802†	204285.6	1.984 mg/L	0.0313	1.984 mg/L	0.0313	1.58%
QC value within limits for Cd 228.802 Recovery = 99.22%						
Co 228.616†	82622.3	0.8895 mg/L	0.01335	0.8895 mg/L	0.01335	1.50%
QC value within limits for Co 228.616 Recovery = 88.95%						
Cr 267.716†	110976.3	0.9455 mg/L	0.01585	0.9455 mg/L	0.01585	1.68%
QC value within limits for Cr 267.716 Recovery = 94.55%						
Cu 327.393†	157372.6	0.9940 mg/L	0.01707	0.9940 mg/L	0.01707	1.72%
QC value within limits for Cu 327.393 Recovery = 99.40%						
Fe 238.204†	207140.9	95.73 mg/L	3.106	95.73 mg/L	3.106	3.24%

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By NC at 11:01 am, Apr 17, 2024

QC value within limits for Fe 238.204	Recovery = 95.73%					
K 766.490†	-42.2	-0.0141 mg/L	0.00648	-0.0141 mg/L	0.00648	46.02%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1803812.9	229.1 mg/L	7.66	229.1 mg/L	7.66	3.34%
QC value within limits for Mg 285.213	Recovery = 91.66%					
Mn 257.610†	21570.7	0.9602 mg/L	0.03056	0.9602 mg/L	0.03056	3.18%
QC value within limits for Mn 257.610	Recovery = 96.02%					
Mo 202.031†	-113.6	-0.0049 mg/L	0.00034	-0.0049 mg/L	0.00034	6.94%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	647.0	0.0617 mg/L	0.00429	0.0617 mg/L	0.00429	6.95%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	63921.4	1.772 mg/L	0.0323	1.772 mg/L	0.0323	1.82%
QC value within limits for Ni 231.604	Recovery = 88.59%					
Pb 220.353†	775.6	0.0962 mg/L	0.00123	0.0962 mg/L	0.00123	1.28%
QC value within limits for Pb 220.353	Recovery = 96.17%					
Sb 206.836†	6213.5	1.088 mg/L	0.0237	1.088 mg/L	0.0237	2.18%
QC value within limits for Sb 206.836	Recovery = 90.70%					
Se 196.026†	932.7	0.4735 mg/L	0.01198	0.4735 mg/L	0.01198	2.53%
QC value within limits for Se 196.026	Recovery = 94.71%					
Sn 189.927†	-530.8	-0.0676 mg/L	0.00147	-0.0676 mg/L	0.00147	2.18%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	8.4	0.0005 mg/L	0.00017	0.0005 mg/L	0.00017	34.89%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	1541.4	0.2001 mg/L	0.00570	0.2001 mg/L	0.00570	2.85%
QC value within limits for Tl 351.924	Recovery = 100.07%					
V 290.880†	195934.2	0.9616 mg/L	0.01385	0.9616 mg/L	0.01385	1.44%
QC value within limits for V 290.880	Recovery = 96.16%					
Zn 206.200†	118375.2	1.808 mg/L	0.0299	1.808 mg/L	0.0299	1.66%
QC value within limits for Zn 206.200	Recovery = 90.38%					
Zr 343.823†	1245.9	0.0009 mg/L	0.00007	0.0009 mg/L	0.00007	7.73%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 23

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 12:36:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4752555.1	99.89 %	0.931			0.93%
Y radial	187271.7	106.6 %	0.50			0.46%
Ag 328.068†	611428.3	2.261 mg/L	0.0191	2.261 mg/L	0.0191	0.85%
QC value within limits for Ag 328.068	Recovery = 90.44%					
Al 396.153†	35632.0	9.650 mg/L	0.0294	9.650 mg/L	0.0294	0.30%
QC value within limits for Al 396.153	Recovery = 96.50%					
As 188.979†	14059.2	4.813 mg/L	0.0446	4.813 mg/L	0.0446	0.93%
QC value within limits for As 188.979	Recovery = 96.25%					
B 208.889†	81108.9	4.621 mg/L	0.0290	4.621 mg/L	0.0290	0.63%
QC value within limits for B 208.889	Recovery = 92.42%					
Ba 233.527†	762827.5	4.895 mg/L	0.0298	4.895 mg/L	0.0298	0.61%
QC value within limits for Ba 233.527	Recovery = 97.90%					
Be 313.107†	1964395.5	4.856 mg/L	0.0282	4.856 mg/L	0.0282	0.58%
QC value within limits for Be 313.107	Recovery = 97.11%					
Ca 317.933†	61530.4	9.581 mg/L	0.0366	9.581 mg/L	0.0366	0.38%
QC value within limits for Ca 317.933	Recovery = 95.81%					
Cd 228.802†	506076.0	4.824 mg/L	0.0310	4.824 mg/L	0.0310	0.64%
QC value within limits for Cd 228.802	Recovery = 96.48%					
Co 228.616†	452496.0	4.879 mg/L	0.0294	4.879 mg/L	0.0294	0.60%
QC value within limits for Co 228.616	Recovery = 97.58%					
Cr 267.716†	569013.4	4.847 mg/L	0.0256	4.847 mg/L	0.0256	0.53%
QC value within limits for Cr 267.716	Recovery = 96.94%					
Cu 327.393†	761956.0	4.830 mg/L	0.0284	4.830 mg/L	0.0284	0.59%
QC value within limits for Cu 327.393	Recovery = 96.60%					
Fe 238.204†	10498.2	4.877 mg/L	0.0195	4.877 mg/L	0.0195	0.40%
QC value within limits for Fe 238.204	Recovery = 97.54%					

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By NC at 11:01 am, Apr 17, 2024

K 766.490†	28545.6	9.513 mg/L	0.0068	9.513 mg/L	0.0068	0.07%
QC value within limits for K 766.490	Recovery = 95.13%					
Mg 285.213†	77232.0	9.787 mg/L	0.0164	9.787 mg/L	0.0164	0.17%
QC value within limits for Mg 285.213	Recovery = 97.87%					
Mn 257.610†	110096.5	4.863 mg/L	0.0117	4.863 mg/L	0.0117	0.24%
QC value within limits for Mn 257.610	Recovery = 97.26%					
Mo 202.031†	111568.0	4.833 mg/L	0.0281	4.833 mg/L	0.0281	0.58%
QC value within limits for Mo 202.031	Recovery = 96.67%					
Na 589.592†	97346.1	9.276 mg/L	0.0586	9.276 mg/L	0.0586	0.63%
QC value within limits for Na 589.592	Recovery = 92.76%					
Ni 231.604†	176229.5	4.884 mg/L	0.0245	4.884 mg/L	0.0245	0.50%
QC value within limits for Ni 231.604	Recovery = 97.67%					
Pb 220.353†	54369.5	4.820 mg/L	0.0380	4.820 mg/L	0.0380	0.79%
QC value within limits for Pb 220.353	Recovery = 96.41%					
Sb 206.836†	27146.6	4.768 mg/L	0.0505	4.768 mg/L	0.0505	1.06%
QC value within limits for Sb 206.836	Recovery = 95.37%					
Se 196.026†	8378.8	4.859 mg/L	0.0421	4.859 mg/L	0.0421	0.87%
QC value within limits for Se 196.026	Recovery = 97.18%					
Sn 189.927†	37741.7	4.804 mg/L	0.0366	4.804 mg/L	0.0366	0.76%
QC value within limits for Sn 189.927	Recovery = 96.08%					
Ti 337.279†	83145.9	4.832 mg/L	0.0077	4.832 mg/L	0.0077	0.16%
QC value within limits for Ti 337.279	Recovery = 96.64%					
Tl 351.924†	26234.4	2.378 mg/L	0.0214	2.378 mg/L	0.0214	0.90%
QC value within limits for Tl 351.924	Recovery = 95.12%					
V 290.880†	980365.5	4.846 mg/L	0.0279	4.846 mg/L	0.0279	0.58%
QC value within limits for V 290.880	Recovery = 96.92%					
Zn 206.200†	318652.7	4.895 mg/L	0.0318	4.895 mg/L	0.0318	0.65%
QC value within limits for Zn 206.200	Recovery = 97.89%					
Zr 343.823†	1913846.2	4.824 mg/L	0.0255	4.824 mg/L	0.0255	0.53%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 24

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 12:42:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4858522.5	102.1 %	0.80			0.79%
Y radial	188431.5	107.3 %	1.63			1.52%
Ag 328.068†	1028.2	0.0038 mg/L	0.00033	0.0038 mg/L	0.00033	8.65%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	7.1	0.0019 mg/L	0.00510	0.0019 mg/L	0.00510	264.86%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	2.4	0.0008 mg/L	0.00174	0.0008 mg/L	0.00174	216.79%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	661.7	0.0396 mg/L	0.00182	0.0396 mg/L	0.00182	4.60%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	8.3	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	73.63%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	-21.0	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	60.24%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	7.8	0.0012 mg/L	0.00406	0.0012 mg/L	0.00406	333.12%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	8.8	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	61.66%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	5.9	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	30.93%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	-12.8	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	11.45%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	202.8	0.0013 mg/L	0.00034	0.0013 mg/L	0.00034	26.66%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	11.4	0.0053 mg/L	0.00179	0.0053 mg/L	0.00179	34.11%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-49.3	-0.0164 mg/L	0.02041	-0.0164 mg/L	0.02041	124.32%

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By NC at 11:01 am, Apr 17, 2024

QC value within limits for K 766.490	Recovery = Not calculated						
Mg 285.213†	15.1	0.0019 mg/L	0.00027	0.0019 mg/L	0.00027	13.94%	
QC value within limits for Mg 285.213	Recovery = Not calculated						
Mn 257.610†	4.2	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	44.49%	
QC value within limits for Mn 257.610	Recovery = Not calculated						
Mo 202.031†	22.2	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	6.12%	
QC value within limits for Mo 202.031	Recovery = Not calculated						
Na 589.592†	35.5	0.0034 mg/L	0.00453	0.0034 mg/L	0.00453	134.09%	
QC value within limits for Na 589.592	Recovery = Not calculated						
Ni 231.604†	-11.6	-0.0003 mg/L	0.00005	-0.0003 mg/L	0.00005	16.31%	
QC value within limits for Ni 231.604	Recovery = Not calculated						
Pb 220.353†	12.2	0.0011 mg/L	0.00030	0.0011 mg/L	0.00030	27.40%	
QC value within limits for Pb 220.353	Recovery = Not calculated						
Sb 206.836†	7.4	0.0013 mg/L	0.00133	0.0013 mg/L	0.00133	100.56%	
QC value within limits for Sb 206.836	Recovery = Not calculated						
Se 196.026†	-0.4	-0.0002 mg/L	0.00264	-0.0002 mg/L	0.00264	>999.9%	
QC value within limits for Se 196.026	Recovery = Not calculated						
Sn 189.927†	0.5	0.0001 mg/L	0.00019	0.0001 mg/L	0.00019	296.45%	
QC value within limits for Sn 189.927	Recovery = Not calculated						
Ti 337.279†	-5.6	-0.0003 mg/L	0.00033	-0.0003 mg/L	0.00033	100.92%	
QC value within limits for Ti 337.279	Recovery = Not calculated						
Tl 351.924†	-47.0	-0.0043 mg/L	0.00415	-0.0043 mg/L	0.00415	95.96%	
QC value within limits for Tl 351.924	Recovery = Not calculated						
V 290.880†	-1.0	-0.0000 mg/L	0.00023	-0.0000 mg/L	0.00023	>999.9%	
QC value within limits for V 290.880	Recovery = Not calculated						
Zn 206.200†	114.6	0.0017 mg/L	0.00013	0.0017 mg/L	0.00013	7.29%	
QC value within limits for Zn 206.200	Recovery = Not calculated						
Zr 343.823†	-9.1	-0.0000 mg/L	0.00015	-0.0000 mg/L	0.00015	635.19%	
All analyte(s) passed QC.							

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 25

Sample ID: B371540-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 46

Date Collected: 4/16/2024 12:48:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371540-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSR
Y axial	4930766.0	103.6 %	0.95			0.92%
Y radial	190645.1	108.5 %	1.09			1.01%
Ag 328.068†	420.9	0.0016 mg/L	0.00024	0.0016 mg/L	0.00024	15.08%
Al 396.153†	-15.4	-0.0043 mg/L	0.00408	-0.0043 mg/L	0.00408	94.85%
As 188.979†	-0.1	-0.0001 mg/L	0.00038	-0.0001 mg/L	0.00038	559.78%
B 208.889†	440.4	0.0264 mg/L	0.00122	0.0264 mg/L	0.00122	4.61%
Ba 233.527†	6.4	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	47.92%
Be 313.107†	-34.8	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	43.87%
Ca 317.933†	78.8	0.0123 mg/L	0.00326	0.0123 mg/L	0.00326	26.55%
Cd 228.802†	-0.4	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	>999.9%
Co 228.616†	-0.6	-0.0000 mg/L	0.00008	-0.0000 mg/L	0.00008	>999.9%
Cr 267.716†	-24.9	-0.0002 mg/L	0.00014	-0.0002 mg/L	0.00014	66.90%
Cu 327.393†	-365.3	-0.0023 mg/L	0.00018	-0.0023 mg/L	0.00018	7.80%
Fe 238.204†	14.2	0.0066 mg/L	0.00109	0.0066 mg/L	0.00109	16.59%
K 766.490†	-29.5	-0.0098 mg/L	0.01180	-0.0098 mg/L	0.01180	120.14%
Mg 285.213†	18.3	0.0023 mg/L	0.00044	0.0023 mg/L	0.00044	18.69%
Mn 257.610†	-0.4	-0.0000 mg/L	0.00009	-0.0000 mg/L	0.00009	487.92%
Mo 202.031†	7.7	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	29.28%
Na 589.592†	16.0	0.0015 mg/L	0.00412	0.0015 mg/L	0.00412	269.99%
Ni 231.604†	-20.4	-0.0006 mg/L	0.00006	-0.0006 mg/L	0.00006	11.48%
Pb 220.353†	5.4	0.0005 mg/L	0.00078	0.0005 mg/L	0.00078	159.60%
Sb 206.836†	5.0	0.0009 mg/L	0.00089	0.0009 mg/L	0.00089	99.00%
Se 196.026†	-5.0	-0.0029 mg/L	0.00194	-0.0029 mg/L	0.00194	66.81%
Sn 189.927†	-0.1	-0.0000 mg/L	0.00021	-0.0000 mg/L	0.00021	>999.9%
Ti 337.279†	-15.5	-0.0009 mg/L	0.00015	-0.0009 mg/L	0.00015	16.11%
Tl 351.924†	-42.4	-0.0039 mg/L	0.00330	-0.0039 mg/L	0.00330	84.71%
V 290.880†	-13.2	-0.0001 mg/L	0.00041	-0.0001 mg/L	0.00041	626.97%
Zn 206.200†	-2.7	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	48.79%

Zr 343.823† -29.8 -0.0001 mg/L 0.00003 -0.0001 mg/L 0.00003 36.38%

Sequence No.: 26

Sample ID: B371540-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 47

Date Collected: 4/16/2024 12:53:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371540-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4843189.4	101.8 %		1.12			1.10%
Y radial	187607.7	106.8 %		1.51			1.42%
Ag 328.068†	116384.6	0.4364 mg/L		0.00726	0.4364 mg/L	0.00726	1.66%
Al 396.153†	1838.1	0.4915 mg/L		0.00113	0.4915 mg/L	0.00113	0.23%
As 188.979†	1413.2	0.4847 mg/L		0.00854	0.4847 mg/L	0.00854	1.76%
B 208.889†	16367.6	0.9567 mg/L		0.01585	0.9567 mg/L	0.01585	1.66%
Ba 233.527†	80096.8	0.5135 mg/L		0.00935	0.5135 mg/L	0.00935	1.82%
Be 313.107†	209630.2	0.5182 mg/L		0.00579	0.5182 mg/L	0.00579	1.12%
Ca 317.933†	25485.0	3.968 mg/L		0.0463	3.968 mg/L	0.0463	1.17%
Cd 228.802†	52771.2	0.5035 mg/L		0.00825	0.5035 mg/L	0.00825	1.64%
Co 228.616†	47108.0	0.5079 mg/L		0.00896	0.5079 mg/L	0.00896	1.76%
Cr 267.716†	59189.6	0.5041 mg/L		0.00935	0.5041 mg/L	0.00935	1.86%
Cu 327.393†	151648.7	0.9578 mg/L		0.01956	0.9578 mg/L	0.01956	2.04%
Fe 238.204†	8712.0	4.028 mg/L		0.0433	4.028 mg/L	0.0433	1.07%
K 766.490†	11620.7	3.873 mg/L		0.0533	3.873 mg/L	0.0533	1.38%
Mg 285.213†	31791.1	4.041 mg/L		0.0420	4.041 mg/L	0.0420	1.04%
Mn 257.610†	11392.9	0.5035 mg/L		0.00394	0.5035 mg/L	0.00394	0.78%
Mo 202.031†	11434.3	0.4954 mg/L		0.00556	0.4954 mg/L	0.00556	1.12%
Na 589.592†	39555.1	3.769 mg/L		0.0229	3.769 mg/L	0.0229	0.61%
Ni 231.604†	18314.2	0.5073 mg/L		0.00985	0.5073 mg/L	0.00985	1.94%
Pb 220.353†	5744.1	0.5081 mg/L		0.00803	0.5081 mg/L	0.00803	1.58%
Sb 206.836†	2860.5	0.5024 mg/L		0.00718	0.5024 mg/L	0.00718	1.43%
Se 196.026†	885.5	0.5126 mg/L		0.00489	0.5126 mg/L	0.00489	0.95%
Sn 189.927†	3906.0	0.4977 mg/L		0.00588	0.4977 mg/L	0.00588	1.18%
Ti 337.279†	8621.7	0.5013 mg/L		0.00506	0.5013 mg/L	0.00506	1.01%
Tl 351.924†	5494.0	0.5052 mg/L		0.01239	0.5052 mg/L	0.01239	2.45%
V 290.880†	101787.7	0.5029 mg/L		0.00891	0.5029 mg/L	0.00891	1.77%
Zn 206.200†	66163.6	1.012 mg/L		0.0155	1.012 mg/L	0.0155	1.53%
Zr 343.823†	947.2	0.0023 mg/L		0.00050	0.0023 mg/L	0.00050	21.66%

Sequence No.: 27

Sample ID: B371540-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 48

Date Collected: 4/16/2024 12:58:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371540-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4859097.5	102.1 %		0.66			0.65%
Y radial	187210.0	106.6 %		1.72			1.62%
Ag 328.068†	107995.1	0.4050 mg/L		0.00533	0.4050 mg/L	0.00533	1.32%
Al 396.153†	1866.0	0.4995 mg/L		0.00801	0.4995 mg/L	0.00801	1.60%
As 188.979†	1395.2	0.4786 mg/L		0.00424	0.4786 mg/L	0.00424	0.89%
B 208.889†	16145.9	0.9436 mg/L		0.00858	0.9436 mg/L	0.00858	0.91%
Ba 233.527†	78612.8	0.5040 mg/L		0.00590	0.5040 mg/L	0.00590	1.17%
Be 313.107†	205934.1	0.5091 mg/L		0.01065	0.5091 mg/L	0.01065	2.09%
Ca 317.933†	25563.0	3.981 mg/L		0.0608	3.981 mg/L	0.0608	1.53%
Cd 228.802†	52076.5	0.4968 mg/L		0.00620	0.4968 mg/L	0.00620	1.25%
Co 228.616†	46310.6	0.4993 mg/L		0.00597	0.4993 mg/L	0.00597	1.20%
Cr 267.716†	58143.3	0.4952 mg/L		0.00594	0.4952 mg/L	0.00594	1.20%
Cu 327.393†	152865.0	0.9655 mg/L		0.00446	0.9655 mg/L	0.00446	0.46%
Fe 238.204†	8786.3	4.063 mg/L		0.0677	4.063 mg/L	0.0677	1.67%

K 766.490†	11651.9	3.883 mg/L	0.0628	3.883 mg/L	0.0628	1.62%
Mg 285.213†	32153.6	4.087 mg/L	0.0697	4.087 mg/L	0.0697	1.71%
Mn 257.610†	11451.2	0.5061 mg/L	0.00739	0.5061 mg/L	0.00739	1.46%
Mo 202.031†	11303.4	0.4897 mg/L	0.00607	0.4897 mg/L	0.00607	1.24%
Na 589.592†	38806.0	3.698 mg/L	0.0633	3.698 mg/L	0.0633	1.71%
Ni 231.604†	18042.3	0.4998 mg/L	0.00577	0.4998 mg/L	0.00577	1.16%
Pb 220.353†	5740.3	0.5077 mg/L	0.00418	0.5077 mg/L	0.00418	0.82%
Sb 206.836†	2832.0	0.4974 mg/L	0.00244	0.4974 mg/L	0.00244	0.49%
Se 196.026†	872.0	0.5048 mg/L	0.00383	0.5048 mg/L	0.00383	0.76%
Sn 189.927†	3859.6	0.4918 mg/L	0.00317	0.4918 mg/L	0.00317	0.65%
Ti 337.279†	8665.1	0.5039 mg/L	0.00935	0.5039 mg/L	0.00935	1.86%
Tl 351.924†	5318.9	0.4891 mg/L	0.01155	0.4891 mg/L	0.01155	2.36%
V 290.880†	101279.3	0.5004 mg/L	0.00577	0.5004 mg/L	0.00577	1.15%
Zn 206.200†	65227.7	0.9979 mg/L	0.01366	0.9979 mg/L	0.01366	1.37%
Zr 343.823†	430.8	0.0010 mg/L	0.00011	0.0010 mg/L	0.00011	11.38%

Sequence No.: 28

Sample ID: B371540-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 49

Date Collected: 4/16/2024 1:02:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371540-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4818051.0	101.3 %		1.11			1.09%
Y radial	190926.7	108.7 %		0.96			0.89%
Ag 328.068†	35878.0	0.1360 mg/L		0.00227	0.1360 mg/L	0.00227	1.67%
Al 396.153†	2100.7	0.5643 mg/L		0.00252	0.5643 mg/L	0.00252	0.45%
As 188.979†	1413.7	0.4849 mg/L		0.00204	0.4849 mg/L	0.00204	0.42%
B 208.889†	16624.2	0.9717 mg/L		0.01723	0.9717 mg/L	0.01723	1.77%
Ba 233.527†	80992.1	0.5192 mg/L		0.00959	0.5192 mg/L	0.00959	1.85%
Be 313.107†	202834.3	0.5013 mg/L		0.00643	0.5013 mg/L	0.00643	1.28%
Ca 317.933†	34523.9	5.376 mg/L		0.0392	5.376 mg/L	0.0392	0.73%
Cd 228.802†	52784.7	0.5036 mg/L		0.00903	0.5036 mg/L	0.00903	1.79%
Co 228.616†	47219.3	0.5091 mg/L		0.00952	0.5091 mg/L	0.00952	1.87%
Cr 267.716†	59137.3	0.5037 mg/L		0.00985	0.5037 mg/L	0.00985	1.95%
Cu 327.393†	155733.9	0.9836 mg/L		0.00565	0.9836 mg/L	0.00565	0.57%
Fe 238.204†	8804.6	4.071 mg/L		0.0329	4.071 mg/L	0.0329	0.81%
K 766.490†	12582.4	4.193 mg/L		0.0096	4.193 mg/L	0.0096	0.23%
Mg 285.213†	35069.9	4.457 mg/L		0.0190	4.457 mg/L	0.0190	0.43%
Mn 257.610†	11503.3	0.5084 mg/L		0.00353	0.5084 mg/L	0.00353	0.69%
Mo 202.031†	11577.4	0.5015 mg/L		0.01055	0.5015 mg/L	0.01055	2.10%
Na 589.592†	68955.7	6.571 mg/L		0.0841	6.571 mg/L	0.0841	1.28%
Ni 231.604†	18458.7	0.5114 mg/L		0.01056	0.5114 mg/L	0.01056	2.06%
Pb 220.353†	5800.4	0.5130 mg/L		0.00491	0.5130 mg/L	0.00491	0.96%
Sb 206.836†	2877.8	0.5055 mg/L		0.00469	0.5055 mg/L	0.00469	0.93%
Se 196.026†	880.0	0.5092 mg/L		0.00583	0.5092 mg/L	0.00583	1.15%
Sn 189.927†	3902.9	0.4973 mg/L		0.00526	0.4973 mg/L	0.00526	1.06%
Ti 337.279†	8657.5	0.5034 mg/L		0.00190	0.5034 mg/L	0.00190	0.38%
Tl 351.924†	5550.3	0.5104 mg/L		0.00802	0.5104 mg/L	0.00802	1.57%
V 290.880†	103332.6	0.5105 mg/L		0.01041	0.5105 mg/L	0.01041	2.04%
Zn 206.200†	66599.6	1.020 mg/L		0.0169	1.020 mg/L	0.0169	1.66%
Zr 343.823†	410.8	0.0009 mg/L		0.00012	0.0009 mg/L	0.00012	12.49%

Sequence No.: 29

Sample ID: B371540-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 50

Date Collected: 4/16/2024 1:07:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371540-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y axial	4816491.6	101.2 %	1.44			1.42%
Y radial	185901.6	105.8 %	0.87			0.83%
Ag 328.068†	481691.8	1.806 mg/L	0.0477	1.806 mg/L	0.0477	2.64%
Al 396.153†	7776.9	2.084 mg/L	0.0065	2.084 mg/L	0.0065	0.31%
As 188.979†	5606.4	1.923 mg/L	0.0232	1.923 mg/L	0.0232	1.21%
B 208.889†	65025.5	3.799 mg/L	0.0238	3.799 mg/L	0.0238	0.63%
Ba 233.527†	315752.0	2.024 mg/L	0.0200	2.024 mg/L	0.0200	0.99%
Be 313.107†	818519.0	2.023 mg/L	0.0200	2.023 mg/L	0.0200	0.99%
Ca 317.933†	110649.9	17.23 mg/L	0.110	17.23 mg/L	0.110	0.64%
Cd 228.802†	208827.8	1.992 mg/L	0.0191	1.992 mg/L	0.0191	0.96%
Co 228.616†	182961.9	1.973 mg/L	0.0185	1.973 mg/L	0.0185	0.94%
Cr 267.716†	234278.2	1.995 mg/L	0.0196	1.995 mg/L	0.0196	0.98%
Cu 327.393†	613947.1	3.878 mg/L	0.0234	3.878 mg/L	0.0234	0.60%
Fe 238.204†	34901.7	16.14 mg/L	0.086	16.14 mg/L	0.086	0.53%
K 766.490†	48947.7	16.31 mg/L	0.071	16.31 mg/L	0.071	0.44%
Mg 285.213†	130880.7	16.63 mg/L	0.049	16.63 mg/L	0.049	0.30%
Mn 257.610†	45619.7	2.016 mg/L	0.0102	2.016 mg/L	0.0102	0.51%
Mo 202.031†	46085.7	1.996 mg/L	0.0252	1.996 mg/L	0.0252	1.26%
Na 589.592†	196682.0	18.74 mg/L	0.184	18.74 mg/L	0.184	0.98%
Ni 231.604†	71353.1	1.977 mg/L	0.0218	1.977 mg/L	0.0218	1.11%
Pb 220.353†	22279.6	1.971 mg/L	0.0286	1.971 mg/L	0.0286	1.45%
Sb 206.836†	11366.3	1.996 mg/L	0.0249	1.996 mg/L	0.0249	1.25%
Se 196.026†	3489.1	2.019 mg/L	0.0252	2.019 mg/L	0.0252	1.25%
Sn 189.927†	15484.7	1.973 mg/L	0.0240	1.973 mg/L	0.0240	1.22%
Ti 337.279†	34992.9	2.035 mg/L	0.0076	2.035 mg/L	0.0076	0.37%
Tl 351.924†	22350.7	2.055 mg/L	0.0289	2.055 mg/L	0.0289	1.41%
V 290.880†	406683.5	2.009 mg/L	0.0145	2.009 mg/L	0.0145	0.72%
Zn 206.200†	260031.0	3.977 mg/L	0.0470	3.977 mg/L	0.0470	1.18%
Zr 343.823†	1084.8	0.0023 mg/L	0.00058	0.0023 mg/L	0.00058	24.62%

Sequence No.: 30

Sample ID: B371540-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 51

Date Collected: 4/16/2024 1:12:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371540-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4882554.6	102.6 %		0.14			0.14%
Y radial	192173.9	109.4 %		1.81			1.66%
Ag 328.068†	3840.6	0.0143 mg/L		0.00122	0.0143 mg/L	0.00122	8.52%
Al 396.153†	27.1	0.0075 mg/L		0.00455	0.0075 mg/L	0.00455	61.04%
As 188.979†	1.9	0.0006 mg/L		0.00119	0.0006 mg/L	0.00119	186.18%
B 208.889†	461.4	0.0276 mg/L		0.00110	0.0276 mg/L	0.00110	3.98%
Ba 233.527†	128.2	0.0008 mg/L		0.00002	0.0008 mg/L	0.00002	2.29%
Be 313.107†	-32.9	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	33.80%
Ca 317.933†	1830.8	0.2851 mg/L		0.00916	0.2851 mg/L	0.00916	3.21%
Cd 228.802†	9.1	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	51.74%
Co 228.616†	5.9	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	75.31%
Cr 267.716†	0.1	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	>999.9%
Cu 327.393†	155.1	0.0010 mg/L		0.00037	0.0010 mg/L	0.00037	38.07%
Fe 238.204†	38.1	0.0176 mg/L		0.00222	0.0176 mg/L	0.00222	12.64%
K 766.490†	73.2	0.0244 mg/L		0.01850	0.0244 mg/L	0.01850	75.80%
Mg 285.213†	606.6	0.0770 mg/L		0.00087	0.0770 mg/L	0.00087	1.13%
Mn 257.610†	31.6	0.0014 mg/L		0.00007	0.0014 mg/L	0.00007	4.68%
Mo 202.031†	44.0	0.0019 mg/L		0.00004	0.0019 mg/L	0.00004	1.89%
Na 589.592†	5567.5	0.5305 mg/L		0.00657	0.5305 mg/L	0.00657	1.24%
Ni 231.604†	-19.6	-0.0005 mg/L		0.00022	-0.0005 mg/L	0.00022	40.82%
Pb 220.353†	22.1	0.0020 mg/L		0.00026	0.0020 mg/L	0.00026	13.22%
Sb 206.836†	6.7	0.0012 mg/L		0.00063	0.0012 mg/L	0.00063	52.98%
Se 196.026†	1.1	0.0006 mg/L		0.00123	0.0006 mg/L	0.00123	210.88%
Sn 189.927†	5.3	0.0007 mg/L		0.00043	0.0007 mg/L	0.00043	63.60%
Ti 337.279†	-6.3	-0.0004 mg/L		0.00014	-0.0004 mg/L	0.00014	38.64%
Tl 351.924†	-88.4	-0.0081 mg/L		0.01065	-0.0081 mg/L	0.01065	130.85%
V 290.880†	153.2	0.0008 mg/L		0.00055	0.0008 mg/L	0.00055	73.08%
Zn 206.200†	166.1	0.0024 mg/L		0.00024	0.0024 mg/L	0.00024	10.14%

Zr 343.823† -30.8 -0.0001 mg/L 0.00021 -0.0001 mg/L 0.00021 271.72%

Sequence No.: 31

Sample ID: B371540-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 52

Date Collected: 4/16/2024 1:17:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371540-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4859954.9	102.1	%	0.54			0.53%
Y radial	190409.3	108.4	%	0.60			0.55%
Ag 328.068†	796.1	0.0030	mg/L	0.00025	0.0030 mg/L	0.00025	8.25%
Al 396.153†	261.9	0.0728	mg/L	0.00326	0.0728 mg/L	0.00326	4.48%
As 188.979†	3.0	0.0011	mg/L	0.00099	0.0011 mg/L	0.00099	93.23%
B 208.889†	288.5	0.0173	mg/L	0.00145	0.0173 mg/L	0.00145	8.40%
Ba 233.527†	561.4	0.0036	mg/L	0.00002	0.0036 mg/L	0.00002	0.66%
Be 313.107†	-33.3	-0.0001	mg/L	0.00003	-0.0001 mg/L	0.00003	31.35%
Ca 317.933†	9331.9	1.453	mg/L	0.0097	1.453 mg/L	0.0097	0.67%
Cd 228.802†	9.1	0.0001	mg/L	0.00005	0.0001 mg/L	0.00005	69.48%
Co 228.616†	9.6	0.0001	mg/L	0.00004	0.0001 mg/L	0.00004	42.37%
Cr 267.716†	16.9	0.0001	mg/L	0.00008	0.0001 mg/L	0.00008	56.06%
Cu 327.393†	-213.2	-0.0013	mg/L	0.00021	-0.0013 mg/L	0.00021	15.80%
Fe 238.204†	116.7	0.0539	mg/L	0.00138	0.0539 mg/L	0.00138	2.57%
K 766.490†	811.2	0.2703	mg/L	0.00778	0.2703 mg/L	0.00778	2.88%
Mg 285.213†	3065.8	0.3891	mg/L	0.00181	0.3891 mg/L	0.00181	0.46%
Mn 257.610†	153.4	0.0068	mg/L	0.00016	0.0068 mg/L	0.00016	2.29%
Mo 202.031†	18.1	0.0008	mg/L	0.00021	0.0008 mg/L	0.00021	26.41%
Na 589.592†	29132.8	2.776	mg/L	0.0213	2.776 mg/L	0.0213	0.77%
Ni 231.604†	-8.2	-0.0002	mg/L	0.00017	-0.0002 mg/L	0.00017	76.07%
Pb 220.353†	2.9	0.0003	mg/L	0.00048	0.0003 mg/L	0.00048	177.14%
Sb 206.836†	3.8	0.0007	mg/L	0.00145	0.0007 mg/L	0.00145	217.56%
Se 196.026†	1.6	0.0007	mg/L	0.00204	0.0007 mg/L	0.00204	301.40%
Sn 189.927†	-20.5	-0.0026	mg/L	0.00018	-0.0026 mg/L	0.00018	7.07%
Ti 337.279†	10.0	0.0006	mg/L	0.00016	0.0006 mg/L	0.00016	28.16%
Tl 351.924†	-64.8	-0.0059	mg/L	0.00424	-0.0059 mg/L	0.00424	71.24%
V 290.880†	170.2	0.0008	mg/L	0.00030	0.0008 mg/L	0.00030	35.57%
Zn 206.200†	76.3	0.0009	mg/L	0.00009	0.0009 mg/L	0.00009	9.82%
Zr 343.823†	-22.6	-0.0001	mg/L	0.00015	-0.0001 mg/L	0.00015	262.07%

Sequence No.: 32

Sample ID: 24D0710-06

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 53

Date Collected: 4/16/2024 1:23:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0710-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4837688.0	101.7	%	1.34			1.32%
Y radial	188519.1	107.3	%	1.46			1.36%
Ag 328.068†	339.8	0.0013	mg/L	0.00024	0.0013 mg/L	0.00024	18.76%
Al 396.153†	239.6	0.0666	mg/L	0.00310	0.0666 mg/L	0.00310	4.66%
As 188.979†	-3.6	-0.0012	mg/L	0.00163	-0.0012 mg/L	0.00163	137.48%
B 208.889†	154.3	0.0092	mg/L	0.00143	0.0092 mg/L	0.00143	15.52%
Ba 233.527†	561.1	0.0036	mg/L	0.00011	0.0036 mg/L	0.00011	3.00%
Be 313.107†	6.8	0.0000	mg/L	0.00006	0.0000 mg/L	0.00006	722.75%
Ca 317.933†	9349.4	1.456	mg/L	0.0142	1.456 mg/L	0.0142	0.98%
Cd 228.802†	14.4	0.0002	mg/L	0.00004	0.0002 mg/L	0.00004	25.24%
Co 228.616†	13.7	0.0001	mg/L	0.00003	0.0001 mg/L	0.00003	18.38%
Cr 267.716†	13.3	0.0001	mg/L	0.00007	0.0001 mg/L	0.00007	63.60%
Cu 327.393†	-350.4	-0.0022	mg/L	0.00006	-0.0022 mg/L	0.00006	2.53%
Fe 238.204†	110.7	0.0512	mg/L	0.00175	0.0512 mg/L	0.00175	3.42%

K 766.490†	905.1	0.3016 mg/L	0.01486	0.3016 mg/L	0.01486	4.93%
Mg 285.213†	3065.8	0.3891 mg/L	0.00754	0.3891 mg/L	0.00754	1.94%
Mn 257.610†	154.2	0.0068 mg/L	0.00010	0.0068 mg/L	0.00010	1.43%
Mo 202.031†	11.6	0.0005 mg/L	0.00035	0.0005 mg/L	0.00035	69.69%
Na 589.592†	30687.5	2.924 mg/L	0.0295	2.924 mg/L	0.0295	1.01%
Ni 231.604†	-11.4	-0.0003 mg/L	0.00023	-0.0003 mg/L	0.00023	74.26%
Pb 220.353†	4.0	0.0004 mg/L	0.00064	0.0004 mg/L	0.00064	176.97%
Sb 206.836†	7.2	0.0013 mg/L	0.00032	0.0013 mg/L	0.00032	25.24%
Se 196.026†	0.6	0.0001 mg/L	0.00087	0.0001 mg/L	0.00087	674.86%
Sn 189.927†	-20.8	-0.0026 mg/L	0.00041	-0.0026 mg/L	0.00041	15.43%
Ti 337.279†	9.6	0.0006 mg/L	0.00039	0.0006 mg/L	0.00039	69.73%
Tl 351.924†	-31.3	-0.0029 mg/L	0.00205	-0.0029 mg/L	0.00205	71.55%
V 290.880†	390.0	0.0019 mg/L	0.00044	0.0019 mg/L	0.00044	22.91%
Zn 206.200†	78.7	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	2.62%
Zr 343.823†	-25.5	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	26.06%

Sequence No.: 33

Sample ID: 24D0710-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 54

Date Collected: 4/16/2024 1:28:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0710-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4729543.7	99.40 %		0.428			0.43%
Y radial	187114.0	106.5 %		0.71			0.67%
Ag 328.068†	263.8	0.0010 mg/L		0.00020	0.0010 mg/L	0.00020	20.15%
Al 396.153†	282.5	0.0785 mg/L		0.00344	0.0785 mg/L	0.00344	4.38%
As 188.979†	-11.3	-0.0032 mg/L		0.00089	-0.0032 mg/L	0.00089	28.40%
B 208.889†	1360.4	0.0815 mg/L		0.00114	0.0815 mg/L	0.00114	1.40%
Ba 233.527†	2865.0	0.0183 mg/L		0.00010	0.0183 mg/L	0.00010	0.55%
Be 313.107†	-26.7	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	24.09%
Ca 317.933†	210032.3	32.71 mg/L		0.066	32.71 mg/L	0.066	0.20%
Cd 228.802†	0.9	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	33.44%
Co 228.616†	45.5	0.0005 mg/L		0.00006	0.0005 mg/L	0.00006	12.06%
Cr 267.716†	95.7	0.0008 mg/L		0.00007	0.0008 mg/L	0.00007	9.05%
Cu 327.393†	-486.9	-0.0031 mg/L		0.00013	-0.0031 mg/L	0.00013	4.37%
Fe 238.204†	327.8	0.1515 mg/L		0.00079	0.1515 mg/L	0.00079	0.52%
K 766.490†	14043.6	4.680 mg/L		0.0448	4.680 mg/L	0.0448	0.96%
Mg 285.213†	35434.0	4.492 mg/L		0.0093	4.492 mg/L	0.0093	0.21%
Mn 257.610†	762.4	0.0337 mg/L		0.00028	0.0337 mg/L	0.00028	0.84%
Mo 202.031†	25.4	0.0011 mg/L		0.00011	0.0011 mg/L	0.00011	9.65%
Na 589.592†	258042.6	24.59 mg/L		0.044	24.59 mg/L	0.044	0.18%
Ni 231.604†	44.9	0.0013 mg/L		0.00041	0.0013 mg/L	0.00041	32.99%
Pb 220.353†	21.7	0.0019 mg/L		0.00013	0.0019 mg/L	0.00013	6.58%
Sb 206.836†	13.9	0.0023 mg/L		0.00029	0.0023 mg/L	0.00029	12.35%
Se 196.026†	4.2	-0.0018 mg/L		0.00334	-0.0018 mg/L	0.00334	181.68%
Sn 189.927†	-218.8	-0.0279 mg/L		0.00076	-0.0279 mg/L	0.00076	2.72%
Ti 337.279†	49.1	0.0029 mg/L		0.00029	0.0029 mg/L	0.00029	10.29%
Tl 351.924†	-125.8	-0.0115 mg/L		0.00648	-0.0115 mg/L	0.00648	56.28%
V 290.880†	478.5	0.0024 mg/L		0.00005	0.0024 mg/L	0.00005	2.23%
Zn 206.200†	42.6	-0.0014 mg/L		0.00007	-0.0014 mg/L	0.00007	4.56%
Zr 343.823†	123.4	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	19.42%

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 1:52:18 PM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/16/2024 1:52:18 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 1:54:44 PM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 34

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/16/2024 1:54:45 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4673849.1	98.23 %	1.055			1.07%
Y radial	185955.3	105.9 %	0.14			0.14%
Ag 328.068†	653611.4	2.418 mg/L	0.0178	2.418 mg/L	0.0178	0.74%
QC value within limits for Ag 328.068		Recovery = 96.73%				
Al 396.153†	34621.8	9.367 mg/L	0.0588	9.367 mg/L	0.0588	0.63%
QC value within limits for Al 396.153		Recovery = 93.67%				
As 188.979†	14140.7	4.840 mg/L	0.0931	4.840 mg/L	0.0931	1.92%
QC value within limits for As 188.979		Recovery = 96.81%				
B 208.889†	82007.8	4.673 mg/L	0.0121	4.673 mg/L	0.0121	0.26%
QC value within limits for B 208.889		Recovery = 93.47%				
Ba 233.527†	763718.0	4.901 mg/L	0.0201	4.901 mg/L	0.0201	0.41%
QC value within limits for Ba 233.527		Recovery = 98.01%				
Be 313.107†	1975480.5	4.883 mg/L	0.0499	4.883 mg/L	0.0499	1.02%
QC value within limits for Be 313.107		Recovery = 97.66%				
Ca 317.933†	60731.4	9.457 mg/L	0.0146	9.457 mg/L	0.0146	0.15%
QC value within limits for Ca 317.933		Recovery = 94.57%				
Cd 228.802†	507049.3	4.833 mg/L	0.0204	4.833 mg/L	0.0204	0.42%
QC value within limits for Cd 228.802		Recovery = 96.66%				
Co 228.616†	454357.8	4.899 mg/L	0.0221	4.899 mg/L	0.0221	0.45%
QC value within limits for Co 228.616		Recovery = 97.99%				
Cr 267.716†	569909.0	4.855 mg/L	0.0254	4.855 mg/L	0.0254	0.52%
QC value within limits for Cr 267.716		Recovery = 97.09%				
Cu 327.393†	771262.8	4.889 mg/L	0.0230	4.889 mg/L	0.0230	0.47%
QC value within limits for Cu 327.393		Recovery = 97.78%				

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By NC at 11:01 am, Apr 17, 2024

Fe 238.204†	10421.2	4.842 mg/L	0.0089	4.842 mg/L	0.0089	0.18%
QC value within limits for Fe 238.204 Recovery = 96.83%						
K 766.490†	28880.1	9.625 mg/L	0.0727	9.625 mg/L	0.0727	0.75%
QC value within limits for K 766.490 Recovery = 96.25%						
Mg 285.213†	76159.6	9.650 mg/L	0.0499	9.650 mg/L	0.0499	0.52%
QC value within limits for Mg 285.213 Recovery = 96.50%						
Mn 257.610†	109941.4	4.856 mg/L	0.0110	4.856 mg/L	0.0110	0.23%
QC value within limits for Mn 257.610 Recovery = 97.13%						
Mo 202.031†	112379.5	4.868 mg/L	0.0186	4.868 mg/L	0.0186	0.38%
QC value within limits for Mo 202.031 Recovery = 97.37%						
Na 589.592†	104210.8	9.930 mg/L	0.0778	9.930 mg/L	0.0778	0.78%
QC value within limits for Na 589.592 Recovery = 99.30%						
Ni 231.604†	176980.2	4.905 mg/L	0.0290	4.905 mg/L	0.0290	0.59%
QC value within limits for Ni 231.604 Recovery = 98.09%						
Pb 220.353†	54800.3	4.858 mg/L	0.0846	4.858 mg/L	0.0846	1.74%
QC value within limits for Pb 220.353 Recovery = 97.17%						
Sb 206.836†	27518.8	4.834 mg/L	0.0987	4.834 mg/L	0.0987	2.04%
QC value within limits for Sb 206.836 Recovery = 96.69%						
Se 196.026†	8435.5	4.892 mg/L	0.1122	4.892 mg/L	0.1122	2.29%
QC value within limits for Se 196.026 Recovery = 97.84%						
Sn 189.927†	38040.3	4.842 mg/L	0.0917	4.842 mg/L	0.0917	1.89%
QC value within limits for Sn 189.927 Recovery = 96.84%						
Ti 337.279†	83416.3	4.848 mg/L	0.0227	4.848 mg/L	0.0227	0.47%
QC value within limits for Ti 337.279 Recovery = 96.96%						
Tl 351.924†	26550.9	2.407 mg/L	0.0486	2.407 mg/L	0.0486	2.02%
QC value within limits for Tl 351.924 Recovery = 96.28%						
V 290.880†	982780.2	4.858 mg/L	0.0198	4.858 mg/L	0.0198	0.41%
QC value within limits for V 290.880 Recovery = 97.16%						
Zn 206.200†	318546.9	4.892 mg/L	0.0235	4.892 mg/L	0.0235	0.48%
QC value within limits for Zn 206.200 Recovery = 97.84%						
Zr 343.823†	1923186.1	4.848 mg/L	0.0178	4.848 mg/L	0.0178	0.37%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 35

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 2:00:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4797385.0	100.8 %	0.87			0.86%
Y radial	187320.0	106.6 %	0.23			0.21%
Ag 328.068†	334.7	0.0013 mg/L	0.00036	0.0013 mg/L	0.00036	28.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-14.5	-0.0041 mg/L	0.00259	-0.0041 mg/L	0.00259	63.15%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-4.5	-0.0016 mg/L	0.00142	-0.0016 mg/L	0.00142	91.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-277.5	-0.0167 mg/L	0.00101	-0.0167 mg/L	0.00101	6.07%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	17.5	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	13.99%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	4.0	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	364.34%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-3.7	-0.0006 mg/L	0.00146	-0.0006 mg/L	0.00146	250.32%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	3.5	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	69.13%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	6.3	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	103.35%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-11.8	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	115.68%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-152.0	-0.0010 mg/L	0.00018	-0.0010 mg/L	0.00018	18.95%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	6.9	0.0032 mg/L	0.00141	0.0032 mg/L	0.00141	44.17%

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By NC at 11:01 am, Apr 17, 2024

QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	41.6	0.0139 mg/L	0.02881	0.0139 mg/L	0.02881	207.65%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	5.4	0.0007 mg/L	0.00046	0.0007 mg/L	0.00046	67.73%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	7.0	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	35.47%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	28.9	0.0013 mg/L	0.00028	0.0013 mg/L	0.00028	22.75%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	18.6	0.0018 mg/L	0.00270	0.0018 mg/L	0.00270	152.38%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-12.0	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	51.75%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	16.5	0.0015 mg/L	0.00044	0.0015 mg/L	0.00044	30.06%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	1.0	0.0002 mg/L	0.00048	0.0002 mg/L	0.00048	255.53%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	0.4	0.0003 mg/L	0.00094	0.0003 mg/L	0.00094	376.04%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	0.9	0.0001 mg/L	0.00051	0.0001 mg/L	0.00051	462.26%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-7.8	-0.0005 mg/L	0.00020	-0.0005 mg/L	0.00020	43.71%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-95.3	-0.0088 mg/L	0.00476	-0.0088 mg/L	0.00476	54.19%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	196.5	0.0010 mg/L	0.00037	0.0010 mg/L	0.00037	38.09%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	56.3	0.0009 mg/L	0.00007	0.0009 mg/L	0.00007	7.73%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	28.3	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	44.45%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 36

Sample ID: B370707-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 55

Date Collected: 4/16/2024 2:05:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4825862.5	101.4 %		0.90			0.88%
Y radial	189225.7	107.7 %		0.13			0.12%
Ag 328.068†	378.8	0.0014 mg/L		0.00036	0.0014 mg/L	0.00036	25.65%
Al 396.153†	-17.1	-0.0048 mg/L		0.00154	-0.0048 mg/L	0.00154	32.26%
As 188.979†	-1.2	-0.0004 mg/L		0.00069	-0.0004 mg/L	0.00069	163.38%
B 208.889†	-315.6	-0.0189 mg/L		0.00139	-0.0189 mg/L	0.00139	7.35%
Ba 233.527†	10.9	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	49.32%
Be 313.107†	-17.9	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	55.48%
Ca 317.933†	134.8	0.0210 mg/L		0.00163	0.0210 mg/L	0.00163	7.79%
Cd 228.802†	0.6	0.0000 mg/L		0.00009	0.0000 mg/L	0.00009	588.42%
Co 228.616†	7.2	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	60.54%
Cr 267.716†	-3.4	-0.0000 mg/L		0.00006	-0.0000 mg/L	0.00006	210.64%
Cu 327.393†	66.2	0.0004 mg/L		0.00031	0.0004 mg/L	0.00031	73.66%
Fe 238.204†	14.3	0.0066 mg/L		0.00097	0.0066 mg/L	0.00097	14.71%
K 766.490†	-53.5	-0.0178 mg/L		0.00604	-0.0178 mg/L	0.00604	33.89%
Mg 285.213†	14.1	0.0018 mg/L		0.00042	0.0018 mg/L	0.00042	23.31%
Mn 257.610†	11.4	0.0005 mg/L		0.00005	0.0005 mg/L	0.00005	9.17%
Mo 202.031†	9.4	0.0004 mg/L		0.00003	0.0004 mg/L	0.00003	7.48%
Na 589.592†	18.4	0.0018 mg/L		0.00270	0.0018 mg/L	0.00270	154.09%
Ni 231.604†	-12.3	-0.0003 mg/L		0.00015	-0.0003 mg/L	0.00015	44.55%
Pb 220.353†	11.2	0.0010 mg/L		0.00015	0.0010 mg/L	0.00015	15.51%
Sb 206.836†	4.8	0.0009 mg/L		0.00077	0.0009 mg/L	0.00077	89.68%
Se 196.026†	-1.1	-0.0006 mg/L		0.00358	-0.0006 mg/L	0.00358	581.08%
Sn 189.927†	6.5	0.0008 mg/L		0.00017	0.0008 mg/L	0.00017	20.41%
Ti 337.279†	-9.1	-0.0005 mg/L		0.00035	-0.0005 mg/L	0.00035	65.94%
Tl 351.924†	-151.0	-0.0139 mg/L		0.00282	-0.0139 mg/L	0.00282	20.24%

V 290.880†	312.4	0.0015 mg/L	0.00029	0.0015 mg/L	0.00029	18.98%
Zn 206.200†	129.8	0.0020 mg/L	0.00004	0.0020 mg/L	0.00004	2.01%
Zr 343.823†	44.0	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	85.34%

Sequence No.: 37

Sample ID: B370707-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 56

Date Collected: 4/16/2024 2:11:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-BS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4727685.2	99.36 %	1.109			1.12%
Y radial	188479.4	107.3 %	0.80			0.75%
Ag 328.068†	141296.1	0.5294 mg/L	0.00286	0.5294 mg/L	0.00286	0.54%
Al 396.153†	1843.3	0.4927 mg/L	0.00636	0.4927 mg/L	0.00636	1.29%
As 188.979†	1411.1	0.4839 mg/L	0.00829	0.4839 mg/L	0.00829	1.71%
B 208.889†	16100.1	0.9403 mg/L	0.00714	0.9403 mg/L	0.00714	0.76%
Ba 233.527†	81081.6	0.5198 mg/L	0.00329	0.5198 mg/L	0.00329	0.63%
Be 313.107†	206946.7	0.5115 mg/L	0.00796	0.5115 mg/L	0.00796	1.56%
Ca 317.933†	25472.7	3.966 mg/L	0.0144	3.966 mg/L	0.0144	0.36%
Cd 228.802†	53529.0	0.5109 mg/L	0.00349	0.5109 mg/L	0.00349	0.68%
Co 228.616†	47597.6	0.5132 mg/L	0.00298	0.5132 mg/L	0.00298	0.58%
Cr 267.716†	60034.4	0.5113 mg/L	0.00249	0.5113 mg/L	0.00249	0.49%
Cu 327.393†	157408.7	0.9942 mg/L	0.00951	0.9942 mg/L	0.00951	0.96%
Fe 238.204†	8678.5	4.013 mg/L	0.0350	4.013 mg/L	0.0350	0.87%
K 766.490†	11860.6	3.953 mg/L	0.0524	3.953 mg/L	0.0524	1.33%
Mg 285.213†	31965.3	4.063 mg/L	0.0211	4.063 mg/L	0.0211	0.52%
Mn 257.610†	11407.0	0.5041 mg/L	0.00322	0.5041 mg/L	0.00322	0.64%
Mo 202.031†	11574.1	0.5014 mg/L	0.00869	0.5014 mg/L	0.00869	1.73%
Na 589.592†	40273.4	3.838 mg/L	0.0241	3.838 mg/L	0.0241	0.63%
Ni 231.604†	18569.7	0.5144 mg/L	0.00233	0.5144 mg/L	0.00233	0.45%
Pb 220.353†	5773.2	0.5106 mg/L	0.00893	0.5106 mg/L	0.00893	1.75%
Sb 206.836†	2881.3	0.5059 mg/L	0.00965	0.5059 mg/L	0.00965	1.91%
Se 196.026†	888.0	0.5141 mg/L	0.00786	0.5141 mg/L	0.00786	1.53%
Sn 189.927†	3911.6	0.4984 mg/L	0.00747	0.4984 mg/L	0.00747	1.50%
Ti 337.279†	8666.4	0.5039 mg/L	0.00365	0.5039 mg/L	0.00365	0.72%
Tl 351.924†	5371.5	0.4939 mg/L	0.00310	0.4939 mg/L	0.00310	0.63%
V 290.880†	103453.8	0.5111 mg/L	0.00314	0.5111 mg/L	0.00314	0.61%
Zn 206.200†	66866.4	1.022 mg/L	0.0079	1.022 mg/L	0.0079	0.77%
Zr 343.823†	1225.2	0.0030 mg/L	0.00060	0.0030 mg/L	0.00060	20.08%

Sequence No.: 38

Sample ID: B370707-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 57

Date Collected: 4/16/2024 2:16:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4768622.8	100.2 %	1.38			1.38%
Y radial	187506.0	106.7 %	1.30			1.22%
Ag 328.068†	141140.4	0.5288 mg/L	0.00740	0.5288 mg/L	0.00740	1.40%
Al 396.153†	1894.2	0.5068 mg/L	0.00871	0.5068 mg/L	0.00871	1.72%
As 188.979†	1428.6	0.4900 mg/L	0.00540	0.4900 mg/L	0.00540	1.10%
B 208.889†	16173.5	0.9446 mg/L	0.01737	0.9446 mg/L	0.01737	1.84%
Ba 233.527†	80906.9	0.5187 mg/L	0.00782	0.5187 mg/L	0.00782	1.51%
Be 313.107†	209553.5	0.5180 mg/L	0.00859	0.5180 mg/L	0.00859	1.66%
Ca 317.933†	25872.9	4.029 mg/L	0.0430	4.029 mg/L	0.0430	1.07%
Cd 228.802†	53432.2	0.5098 mg/L	0.00738	0.5098 mg/L	0.00738	1.45%
Co 228.616†	47662.0	0.5139 mg/L	0.00753	0.5139 mg/L	0.00753	1.47%
Cr 267.716†	59814.7	0.5094 mg/L	0.00762	0.5094 mg/L	0.00762	1.50%

Cu 327.393†	156579.0	0.9890 mg/L	0.01764	0.9890 mg/L	0.01764	1.78%
Fe 238.204†	8899.5	4.115 mg/L	0.0389	4.115 mg/L	0.0389	0.95%
K 766.490†	11823.6	3.940 mg/L	0.0632	3.940 mg/L	0.0632	1.60%
Mg 285.213†	32627.1	4.147 mg/L	0.0518	4.147 mg/L	0.0518	1.25%
Mn 257.610†	11659.0	0.5153 mg/L	0.00508	0.5153 mg/L	0.00508	0.99%
Mo 202.031†	11609.9	0.5030 mg/L	0.00650	0.5030 mg/L	0.00650	1.29%
Na 589.592†	38962.6	3.713 mg/L	0.0535	3.713 mg/L	0.0535	1.44%
Ni 231.604†	18491.9	0.5123 mg/L	0.00704	0.5123 mg/L	0.00704	1.37%
Pb 220.353†	5780.0	0.5112 mg/L	0.00637	0.5112 mg/L	0.00637	1.25%
Sb 206.836†	2895.4	0.5085 mg/L	0.00495	0.5085 mg/L	0.00495	0.97%
Se 196.026†	899.3	0.5206 mg/L	0.00593	0.5206 mg/L	0.00593	1.14%
Sn 189.927†	3922.0	0.4997 mg/L	0.00790	0.4997 mg/L	0.00790	1.58%
Ti 337.279†	8801.8	0.5118 mg/L	0.00708	0.5118 mg/L	0.00708	1.38%
Tl 351.924†	5418.7	0.4982 mg/L	0.00950	0.4982 mg/L	0.00950	1.91%
V 290.880†	103373.4	0.5107 mg/L	0.00843	0.5107 mg/L	0.00843	1.65%
Zn 206.200†	66972.4	1.024 mg/L	0.0141	1.024 mg/L	0.0141	1.38%
Zr 343.823†	534.9	0.0013 mg/L	0.00019	0.0013 mg/L	0.00019	15.41%

Sequence No.: 39

Sample ID: B370707-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 58

Date Collected: 4/16/2024 2:20:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4634360.2	97.40	%	0.227				0.23%
Y radial	185255.0	105.5	%	1.66				1.58%
Ag 328.068†	142228.2	0.5329	mg/L	0.00476	0.5329	mg/L	0.00476	0.89%
Al 396.153†	2057.6	0.5519	mg/L	0.00567	0.5519	mg/L	0.00567	1.03%
As 188.979†	1453.1	0.4995	mg/L	0.00092	0.4995	mg/L	0.00092	0.18%
B 208.889†	17001.1	0.9937	mg/L	0.01135	0.9937	mg/L	0.01135	1.14%
Ba 233.527†	83922.0	0.5378	mg/L	0.00501	0.5378	mg/L	0.00501	0.93%
Be 313.107†	214148.5	0.5294	mg/L	0.00790	0.5294	mg/L	0.00790	1.49%
Ca 317.933†	231628.7	36.07	mg/L	0.476	36.07	mg/L	0.476	1.32%
Cd 228.802†	54222.3	0.5173	mg/L	0.00398	0.5173	mg/L	0.00398	0.77%
Co 228.616†	47367.2	0.5107	mg/L	0.00383	0.5107	mg/L	0.00383	0.75%
Cr 267.716†	60936.4	0.5189	mg/L	0.00414	0.5189	mg/L	0.00414	0.80%
Cu 327.393†	165080.0	1.043	mg/L	0.0099	1.043	mg/L	0.0099	0.95%
Fe 238.204†	12787.2	5.912	mg/L	0.0508	5.912	mg/L	0.0508	0.86%
K 766.490†	14725.7	4.908	mg/L	0.0415	4.908	mg/L	0.0415	0.85%
Mg 285.213†	79553.4	10.10	mg/L	0.092	10.10	mg/L	0.092	0.91%
Mn 257.610†	16400.8	0.7249	mg/L	0.00904	0.7249	mg/L	0.00904	1.25%
Mo 202.031†	11851.6	0.5134	mg/L	0.00129	0.5134	mg/L	0.00129	0.25%
Na 589.592†	642650.1	61.24	mg/L	0.909	61.24	mg/L	0.909	1.48%
Ni 231.604†	18458.0	0.5113	mg/L	0.00557	0.5113	mg/L	0.00557	1.09%
Pb 220.353†	5699.7	0.5040	mg/L	0.00125	0.5040	mg/L	0.00125	0.25%
Sb 206.836†	2950.5	0.5181	mg/L	0.00117	0.5181	mg/L	0.00117	0.23%
Se 196.026†	920.1	0.5281	mg/L	0.00248	0.5281	mg/L	0.00248	0.47%
Sn 189.927†	3739.6	0.4765	mg/L	0.00181	0.4765	mg/L	0.00181	0.38%
Ti 337.279†	8899.9	0.5175	mg/L	0.00313	0.5175	mg/L	0.00313	0.60%
Tl 351.924†	5503.9	0.5072	mg/L	0.00358	0.5072	mg/L	0.00358	0.71%
V 290.880†	105783.2	0.5225	mg/L	0.00550	0.5225	mg/L	0.00550	1.05%
Zn 206.200†	73271.9	1.115	mg/L	0.0069	1.115	mg/L	0.0069	0.62%
Zr 343.823†	591.6	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.50%

Sequence No.: 40

Sample ID: B370707-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 59

Date Collected: 4/16/2024 2:25:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-MSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4638766.9	97.49	%	1.407			1.44%
Y radial	188326.3	107.2	%	0.51			0.47%
Ag 328.068†	138675.0	0.5196	mg/L	0.00759	0.5196 mg/L	0.00759	1.46%
Al 396.153†	1990.2	0.5336	mg/L	0.00633	0.5336 mg/L	0.00633	1.19%
As 188.979†	1428.8	0.4911	mg/L	0.00971	0.4911 mg/L	0.00971	1.98%
B 208.889†	16629.2	0.9720	mg/L	0.01845	0.9720 mg/L	0.01845	1.90%
Ba 233.527†	81480.5	0.5221	mg/L	0.00776	0.5221 mg/L	0.00776	1.49%
Be 313.107†	206610.2	0.5107	mg/L	0.00237	0.5107 mg/L	0.00237	0.47%
Ca 317.933†	224381.5	34.94	mg/L	0.141	34.94 mg/L	0.141	0.40%
Cd 228.802†	52924.6	0.5048	mg/L	0.00734	0.5048 mg/L	0.00734	1.45%
Co 228.616†	46188.1	0.4980	mg/L	0.00727	0.4980 mg/L	0.00727	1.46%
Cr 267.716†	59162.2	0.5038	mg/L	0.00704	0.5038 mg/L	0.00704	1.40%
Cu 327.393†	160628.7	1.015	mg/L	0.0176	1.015 mg/L	0.0176	1.74%
Fe 238.204†	12424.0	5.744	mg/L	0.0210	5.744 mg/L	0.0210	0.37%
K 766.490†	14458.6	4.819	mg/L	0.0246	4.819 mg/L	0.0246	0.51%
Mg 285.213†	77639.5	9.857	mg/L	0.0022	9.857 mg/L	0.0022	0.02%
Mn 257.610†	15906.9	0.7030	mg/L	0.00345	0.7030 mg/L	0.00345	0.49%
Mo 202.031†	11593.0	0.5022	mg/L	0.00866	0.5022 mg/L	0.00866	1.72%
Na 589.592†	623602.6	59.42	mg/L	0.293	59.42 mg/L	0.293	0.49%
Ni 231.604†	18012.8	0.4990	mg/L	0.00593	0.4990 mg/L	0.00593	1.19%
Pb 220.353†	5593.9	0.4946	mg/L	0.00818	0.4946 mg/L	0.00818	1.65%
Sb 206.836†	2917.9	0.5125	mg/L	0.00880	0.5125 mg/L	0.00880	1.72%
Se 196.026†	909.9	0.5224	mg/L	0.01309	0.5224 mg/L	0.01309	2.51%
Sn 189.927†	3672.5	0.4679	mg/L	0.00709	0.4679 mg/L	0.00709	1.52%
Ti 337.279†	8644.0	0.5026	mg/L	0.00018	0.5026 mg/L	0.00018	0.04%
Tl 351.924†	5410.5	0.4986	mg/L	0.00857	0.4986 mg/L	0.00857	1.72%
V 290.880†	103049.4	0.5090	mg/L	0.00773	0.5090 mg/L	0.00773	1.52%
Zn 206.200†	71681.1	1.091	mg/L	0.0144	1.091 mg/L	0.0144	1.32%
Zr 343.823†	478.6	0.0011	mg/L	0.00007	0.0011 mg/L	0.00007	6.76%

Sequence No.: 41

Sample ID: B370707-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 60

Date Collected: 4/16/2024 2:30:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4638032.1	97.48	%	0.422			0.43%
Y radial	183887.5	104.7	%	1.52			1.45%
Ag 328.068†	519391.7	1.946	mg/L	0.0047	1.946 mg/L	0.0047	0.24%
Al 396.153†	7575.5	2.029	mg/L	0.0093	2.029 mg/L	0.0093	0.46%
As 188.979†	5609.1	1.925	mg/L	0.0063	1.925 mg/L	0.0063	0.33%
B 208.889†	66025.6	3.861	mg/L	0.0127	3.861 mg/L	0.0127	0.33%
Ba 233.527†	309265.6	1.982	mg/L	0.0052	1.982 mg/L	0.0052	0.26%
Be 313.107†	823931.2	2.037	mg/L	0.0344	2.037 mg/L	0.0344	1.69%
Ca 317.933†	300560.6	46.80	mg/L	0.381	46.80 mg/L	0.381	0.81%
Cd 228.802†	206835.8	1.972	mg/L	0.0058	1.972 mg/L	0.0058	0.29%
Co 228.616†	178143.8	1.921	mg/L	0.0055	1.921 mg/L	0.0055	0.28%
Cr 267.716†	229815.0	1.957	mg/L	0.0070	1.957 mg/L	0.0070	0.36%
Cu 327.393†	628171.5	3.968	mg/L	0.0138	3.968 mg/L	0.0138	0.35%
Fe 238.204†	37786.4	17.47	mg/L	0.134	17.47 mg/L	0.134	0.77%
K 766.490†	51906.3	17.30	mg/L	0.091	17.30 mg/L	0.091	0.53%
Mg 285.213†	171435.9	21.78	mg/L	0.114	21.78 mg/L	0.114	0.52%
Mn 257.610†	49116.0	2.171	mg/L	0.0164	2.171 mg/L	0.0164	0.75%
Mo 202.031†	45207.8	1.958	mg/L	0.0043	1.958 mg/L	0.0043	0.22%
Na 589.592†	779034.2	74.23	mg/L	1.425	74.23 mg/L	1.425	1.92%
Ni 231.604†	69280.3	1.919	mg/L	0.0092	1.919 mg/L	0.0092	0.48%
Pb 220.353†	21457.4	1.897	mg/L	0.0079	1.897 mg/L	0.0079	0.42%
Sb 206.836†	11245.1	1.975	mg/L	0.0050	1.975 mg/L	0.0050	0.26%
Se 196.026†	3485.6	2.013	mg/L	0.0040	2.013 mg/L	0.0040	0.20%
Sn 189.927†	14853.7	1.893	mg/L	0.0073	1.893 mg/L	0.0073	0.39%
Ti 337.279†	34585.7	2.011	mg/L	0.0108	2.011 mg/L	0.0108	0.54%
Tl 351.924†	22050.8	2.029	mg/L	0.0058	2.029 mg/L	0.0058	0.28%

V 290.880†	403102.6	1.991 mg/L	0.0056	1.991 mg/L	0.0056	0.28%
Zn 206.200†	257298.3	3.929 mg/L	0.0126	3.929 mg/L	0.0126	0.32%
Zr 343.823†	936.8	0.0019 mg/L	0.00035	0.0019 mg/L	0.00035	17.77%

Sequence No.: 42

Sample ID: B370707-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 61

Date Collected: 4/16/2024 2:34:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4719092.9	99.18 %		0.613			0.62%
Y radial	187094.8	106.5 %		0.86			0.81%
Ag 328.068†	529.0	0.0020 mg/L		0.00008	0.0020 mg/L	0.00008	4.29%
Al 396.153†	19.1	0.0052 mg/L		0.00122	0.0052 mg/L	0.00122	23.32%
As 188.979†	-8.2	-0.0026 mg/L		0.00029	-0.0026 mg/L	0.00029	11.18%
B 208.889†	-56.3	-0.0035 mg/L		0.00160	-0.0035 mg/L	0.00160	46.13%
Ba 233.527†	641.6	0.0041 mg/L		0.00007	0.0041 mg/L	0.00007	1.60%
Be 313.107†	-14.0	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	15.74%
Ca 317.933†	39942.0	6.220 mg/L		0.0411	6.220 mg/L	0.0411	0.66%
Cd 228.802†	4.1	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	100.14%
Co 228.616†	14.7	0.0002 mg/L		0.00008	0.0002 mg/L	0.00008	51.34%
Cr 267.716†	97.0	0.0008 mg/L		0.00011	0.0008 mg/L	0.00011	13.78%
Cu 327.393†	-19.1	-0.0001 mg/L		0.00027	-0.0001 mg/L	0.00027	225.98%
Fe 238.204†	779.8	0.3603 mg/L		0.00203	0.3603 mg/L	0.00203	0.56%
K 766.490†	441.7	0.1472 mg/L		0.02384	0.1472 mg/L	0.02384	16.19%
Mg 285.213†	9122.4	1.157 mg/L		0.0113	1.157 mg/L	0.0113	0.98%
Mn 257.610†	948.9	0.0419 mg/L		0.00027	0.0419 mg/L	0.00027	0.63%
Mo 202.031†	43.8	0.0019 mg/L		0.00035	0.0019 mg/L	0.00035	18.66%
Na 589.592†	112401.1	10.71 mg/L		0.165	10.71 mg/L	0.165	1.54%
Ni 231.604†	4.5	0.0001 mg/L		0.00029	0.0001 mg/L	0.00029	222.81%
Pb 220.353†	20.2	0.0018 mg/L		0.00060	0.0018 mg/L	0.00060	33.58%
Sb 206.836†	4.9	0.0008 mg/L		0.00041	0.0008 mg/L	0.00041	48.38%
Se 196.026†	7.8	0.0037 mg/L		0.00364	0.0037 mg/L	0.00364	99.36%
Sn 189.927†	-64.0	-0.0082 mg/L		0.00021	-0.0082 mg/L	0.00021	2.52%
Ti 337.279†	-8.8	-0.0005 mg/L		0.00006	-0.0005 mg/L	0.00006	11.59%
Tl 351.924†	-72.7	-0.0065 mg/L		0.00699	-0.0065 mg/L	0.00699	108.10%
V 290.880†	390.1	0.0019 mg/L		0.00052	0.0019 mg/L	0.00052	27.58%
Zn 206.200†	1172.9	0.0170 mg/L		0.00020	0.0170 mg/L	0.00020	1.15%
Zr 343.823†	35.0	0.0001 mg/L		0.00018	0.0001 mg/L	0.00018	228.68%

Sequence No.: 43

Sample ID: 24D0735-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 62

Date Collected: 4/16/2024 2:40:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4593347.7	96.54 %		2.916			3.02%
Y radial	186318.7	106.1 %		2.76			2.61%
Ag 328.068†	367.1	0.0014 mg/L		0.00012	0.0014 mg/L	0.00012	8.43%
Al 396.153†	127.5	0.0354 mg/L		0.00181	0.0354 mg/L	0.00181	5.10%
As 188.979†	-19.9	-0.0056 mg/L		0.00142	-0.0056 mg/L	0.00142	25.16%
B 208.889†	43.1	0.0025 mg/L		0.00274	0.0025 mg/L	0.00274	110.64%
Ba 233.527†	3240.6	0.0205 mg/L		0.00069	0.0205 mg/L	0.00069	3.38%
Be 313.107†	-26.0	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	75.85%
Ca 317.933†	203253.1	31.65 mg/L		1.095	31.65 mg/L	1.095	3.46%
Cd 228.802†	6.8	0.0002 mg/L		0.00011	0.0002 mg/L	0.00011	45.75%
Co 228.616†	51.0	0.0006 mg/L		0.00010	0.0006 mg/L	0.00010	17.84%
Cr 267.716†	523.0	0.0044 mg/L		0.00009	0.0044 mg/L	0.00009	1.95%

Cu 327.393†	324.4	0.0021 mg/L	0.00010	0.0021 mg/L	0.00010	4.87%
Fe 238.204†	3915.9	1.810 mg/L	0.0466	1.810 mg/L	0.0466	2.58%
K 766.490†	2364.4	0.7880 mg/L	0.03101	0.7880 mg/L	0.03101	3.94%
Mg 285.213†	47431.5	6.017 mg/L	0.1910	6.017 mg/L	0.1910	3.17%
Mn 257.610†	4810.7	0.2126 mg/L	0.00530	0.2126 mg/L	0.00530	2.49%
Mo 202.031†	51.5	0.0022 mg/L	0.00004	0.0022 mg/L	0.00004	1.94%
Na 589.592†	588519.0	56.08 mg/L	1.642	56.08 mg/L	1.642	2.93%
Ni 231.604†	59.2	0.0016 mg/L	0.00026	0.0016 mg/L	0.00026	15.69%
Pb 220.353†	35.7	0.0031 mg/L	0.00067	0.0031 mg/L	0.00067	21.60%
Sb 206.836†	26.4	0.0045 mg/L	0.00064	0.0045 mg/L	0.00064	14.08%
Se 196.026†	6.4	-0.0007 mg/L	0.00586	-0.0007 mg/L	0.00586	794.43%
Sn 189.927†	-213.2	-0.0272 mg/L	0.00121	-0.0272 mg/L	0.00121	4.47%
Ti 337.279†	-0.6	-0.0000 mg/L	0.00040	-0.0000 mg/L	0.00040	>999.9%
Tl 351.924†	-93.2	-0.0074 mg/L	0.00031	-0.0074 mg/L	0.00031	4.21%
V 290.880†	562.7	0.0026 mg/L	0.00083	0.0026 mg/L	0.00083	31.50%
Zn 206.200†	5791.8	0.0836 mg/L	0.00291	0.0836 mg/L	0.00291	3.47%
Zr 343.823†	167.8	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	50.24%

Sequence No.: 44

Sample ID: 24D0735-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 63

Date Collected: 4/16/2024 2:45:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4714587.4	99.09	%	0.634				0.64%
Y radial	185371.4	105.5	%	1.42				1.35%
Ag 328.068†	334.4	0.0012	mg/L	0.00010	0.0012	mg/L	0.00010	8.55%
Al 396.153†	-9.6	-0.0027	mg/L	0.00874	-0.0027	mg/L	0.00874	323.56%
As 188.979†	-9.6	-0.0028	mg/L	0.00057	-0.0028	mg/L	0.00057	20.26%
B 208.889†	562.0	0.0337	mg/L	0.00074	0.0337	mg/L	0.00074	2.18%
Ba 233.527†	3417.3	0.0219	mg/L	0.00013	0.0219	mg/L	0.00013	0.60%
Be 313.107†	-27.0	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	57.77%
Ca 317.933†	157608.7	24.54	mg/L	0.203	24.54	mg/L	0.203	0.83%
Cd 228.802†	13.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	10.91%
Co 228.616†	69.9	0.0008	mg/L	0.00008	0.0008	mg/L	0.00008	10.82%
Cr 267.716†	98.7	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	5.66%
Cu 327.393†	149.6	0.0009	mg/L	0.00008	0.0009	mg/L	0.00008	8.71%
Fe 238.204†	16.3	0.0075	mg/L	0.00080	0.0075	mg/L	0.00080	10.56%
K 766.490†	7520.7	2.506	mg/L	0.0281	2.506	mg/L	0.0281	1.12%
Mg 285.213†	33468.8	4.244	mg/L	0.0299	4.244	mg/L	0.0299	0.70%
Mn 257.610†	9908.7	0.4376	mg/L	0.00381	0.4376	mg/L	0.00381	0.87%
Mo 202.031†	15.2	0.0007	mg/L	0.00014	0.0007	mg/L	0.00014	20.83%
Na 589.592†	150736.3	14.36	mg/L	0.077	14.36	mg/L	0.077	0.54%
Ni 231.604†	41.9	0.0012	mg/L	0.00015	0.0012	mg/L	0.00015	12.67%
Pb 220.353†	20.8	0.0018	mg/L	0.00041	0.0018	mg/L	0.00041	23.01%
Sb 206.836†	19.8	0.0034	mg/L	0.00029	0.0034	mg/L	0.00029	8.51%
Se 196.026†	6.2	0.0001	mg/L	0.00209	0.0001	mg/L	0.00209	>999.9%
Sn 189.927†	-178.5	-0.0227	mg/L	0.00040	-0.0227	mg/L	0.00040	1.74%
Ti 337.279†	-8.9	-0.0005	mg/L	0.00050	-0.0005	mg/L	0.00050	95.94%
Tl 351.924†	-88.4	-0.0082	mg/L	0.00178	-0.0082	mg/L	0.00178	21.87%
V 290.880†	455.2	0.0022	mg/L	0.00047	0.0022	mg/L	0.00047	20.84%
Zn 206.200†	100.2	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	13.89%
Zr 343.823†	110.7	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	10.12%

Sequence No.: 45

Sample ID: 24D0735-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 64

Date Collected: 4/16/2024 2:51:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4749560.9	99.82	%	0.671				0.67%
Y radial	188305.9	107.2	%	0.99				0.93%
Ag 328.068†	327.8	0.0012	mg/L	0.00041	0.0012	mg/L	0.00041	33.65%
Al 396.153†	-8.6	-0.0024	mg/L	0.00176	-0.0024	mg/L	0.00176	73.40%
As 188.979†	-7.3	-0.0024	mg/L	0.00180	-0.0024	mg/L	0.00180	74.50%
B 208.889†	62.3	0.0037	mg/L	0.00084	0.0037	mg/L	0.00084	22.52%
Ba 233.527†	5201.8	0.0333	mg/L	0.00024	0.0333	mg/L	0.00024	0.72%
Be 313.107†	-35.1	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	35.05%
Ca 317.933†	58993.3	9.186	mg/L	0.0760	9.186	mg/L	0.0760	0.83%
Cd 228.802†	75.1	0.0008	mg/L	0.00014	0.0008	mg/L	0.00014	17.39%
Co 228.616†	21.1	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	44.57%
Cr 267.716†	2101.2	0.0179	mg/L	0.00014	0.0179	mg/L	0.00014	0.80%
Cu 327.393†	150.8	0.0010	mg/L	0.00052	0.0010	mg/L	0.00052	54.25%
Fe 238.204†	29.3	0.0135	mg/L	0.00136	0.0135	mg/L	0.00136	10.08%
K 766.490†	4383.6	1.461	mg/L	0.0112	1.461	mg/L	0.0112	0.77%
Mg 285.213†	12030.4	1.526	mg/L	0.0092	1.526	mg/L	0.0092	0.60%
Mn 257.610†	273.9	0.0121	mg/L	0.00013	0.0121	mg/L	0.00013	1.08%
Mo 202.031†	9.4	0.0004	mg/L	0.00023	0.0004	mg/L	0.00023	55.75%
Na 589.592†	128898.1	12.28	mg/L	0.020	12.28	mg/L	0.020	0.17%
Ni 231.604†	15.3	0.0004	mg/L	0.00034	0.0004	mg/L	0.00034	78.81%
Pb 220.353†	8.9	0.0008	mg/L	0.00054	0.0008	mg/L	0.00054	67.78%
Sb 206.836†	11.2	0.0016	mg/L	0.00081	0.0016	mg/L	0.00081	51.12%
Se 196.026†	-3.7	-0.0034	mg/L	0.00221	-0.0034	mg/L	0.00221	65.63%
Sn 189.927†	-85.7	-0.0109	mg/L	0.00032	-0.0109	mg/L	0.00032	2.91%
Ti 337.279†	-16.2	-0.0009	mg/L	0.00042	-0.0009	mg/L	0.00042	44.80%
Tl 351.924†	-102.3	-0.0094	mg/L	0.00357	-0.0094	mg/L	0.00357	37.86%
V 290.880†	383.6	0.0019	mg/L	0.00025	0.0019	mg/L	0.00025	12.98%
Zn 206.200†	115.3	0.0009	mg/L	0.00013	0.0009	mg/L	0.00013	15.21%
Zr 343.823†	130.4	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	34.23%

Sequence No.: 46

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 2:56:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4706187.0	98.91	%	1.100				1.11%
Y radial	188419.6	107.3	%	0.27				0.26%
Ag 328.068†	638388.8	2.361	mg/L	0.0413	2.361	mg/L	0.0413	1.75%
QC value within limits for Ag 328.068			Recovery = 94.45%					
Al 396.153†	34388.8	9.302	mg/L	0.0205	9.302	mg/L	0.0205	0.22%
QC value within limits for Al 396.153			Recovery = 93.02%					
As 188.979†	13887.9	4.754	mg/L	0.0747	4.754	mg/L	0.0747	1.57%
QC value within limits for As 188.979			Recovery = 95.08%					
B 208.889†	80592.6	4.589	mg/L	0.0287	4.589	mg/L	0.0287	0.62%
QC value within limits for B 208.889			Recovery = 91.77%					
Ba 233.527†	762659.3	4.894	mg/L	0.0258	4.894	mg/L	0.0258	0.53%
QC value within limits for Ba 233.527			Recovery = 97.88%					
Be 313.107†	1932016.2	4.775	mg/L	0.0290	4.775	mg/L	0.0290	0.61%
QC value within limits for Be 313.107			Recovery = 95.50%					
Ca 317.933†	60612.4	9.438	mg/L	0.0322	9.438	mg/L	0.0322	0.34%
QC value within limits for Ca 317.933			Recovery = 94.38%					
Cd 228.802†	504820.8	4.813	mg/L	0.0287	4.813	mg/L	0.0287	0.60%
QC value within limits for Cd 228.802			Recovery = 96.26%					
Co 228.616†	452332.4	4.877	mg/L	0.0259	4.877	mg/L	0.0259	0.53%
QC value within limits for Co 228.616			Recovery = 97.55%					
Cr 267.716†	568783.7	4.845	mg/L	0.0268	4.845	mg/L	0.0268	0.55%
QC value within limits for Cr 267.716			Recovery = 96.90%					
Cu 327.393†	765567.7	4.853	mg/L	0.0334	4.853	mg/L	0.0334	0.69%
QC value within limits for Cu 327.393			Recovery = 97.06%					
Fe 238.204†	10325.9	4.797	mg/L	0.0167	4.797	mg/L	0.0167	0.35%
QC value within limits for Fe 238.204			Recovery = 95.95%					

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By NC at 11:01 am, Apr 17, 2024

K 766.490†	29097.2	9.697 mg/L	0.0232	9.697 mg/L	0.0232	0.24%
QC value within limits for K 766.490 Recovery = 96.97%						
Mg 285.213†	75956.1	9.624 mg/L	0.0395	9.624 mg/L	0.0395	0.41%
QC value within limits for Mg 285.213 Recovery = 96.24%						
Mn 257.610†	109390.5	4.832 mg/L	0.0172	4.832 mg/L	0.0172	0.36%
QC value within limits for Mn 257.610 Recovery = 96.64%						
Mo 202.031†	112286.6	4.864 mg/L	0.0314	4.864 mg/L	0.0314	0.65%
QC value within limits for Mo 202.031 Recovery = 97.29%						
Na 589.592†	100754.4	9.601 mg/L	0.0481	9.601 mg/L	0.0481	0.50%
QC value within limits for Na 589.592 Recovery = 96.01%						
Ni 231.604†	176053.5	4.879 mg/L	0.0225	4.879 mg/L	0.0225	0.46%
QC value within limits for Ni 231.604 Recovery = 97.58%						
Pb 220.353†	53885.4	4.777 mg/L	0.0699	4.777 mg/L	0.0699	1.46%
QC value within limits for Pb 220.353 Recovery = 95.55%						
Sb 206.836†	26977.2	4.738 mg/L	0.0711	4.738 mg/L	0.0711	1.50%
QC value within limits for Sb 206.836 Recovery = 94.77%						
Se 196.026†	8241.3	4.780 mg/L	0.0878	4.780 mg/L	0.0878	1.84%
QC value within limits for Se 196.026 Recovery = 95.59%						
Sn 189.927†	37391.2	4.759 mg/L	0.0618	4.759 mg/L	0.0618	1.30%
QC value within limits for Sn 189.927 Recovery = 95.18%						
Ti 337.279†	83301.1	4.841 mg/L	0.0195	4.841 mg/L	0.0195	0.40%
QC value within limits for Ti 337.279 Recovery = 96.82%						
Tl 351.924†	26127.4	2.368 mg/L	0.0384	2.368 mg/L	0.0384	1.62%
QC value within limits for Tl 351.924 Recovery = 94.72%						
V 290.880†	979666.8	4.842 mg/L	0.0243	4.842 mg/L	0.0243	0.50%
QC value within limits for V 290.880 Recovery = 96.85%						
Zn 206.200†	316196.9	4.856 mg/L	0.0259	4.856 mg/L	0.0259	0.53%
QC value within limits for Zn 206.200 Recovery = 97.13%						
Zr 343.823†	1923823.6	4.849 mg/L	0.0247	4.849 mg/L	0.0247	0.51%
All analyte(s) passed QC.						

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By NC at 11:01 am, Apr 17, 2024

Sequence No.: 47

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 3:02:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4762920.5	100.1 %	0.30			0.29%
Y radial	187087.2	106.5 %	0.82			0.77%
Ag 328.068†	466.7	0.0018 mg/L	0.00019	0.0018 mg/L	0.00019	10.75%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-1.8	-0.0006 mg/L	0.00205	-0.0006 mg/L	0.00205	367.72%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-5.2	-0.0018 mg/L	0.00176	-0.0018 mg/L	0.00176	97.43%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-428.0	-0.0257 mg/L	0.00051	-0.0257 mg/L	0.00051	1.96%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	6.4	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	106.48%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	0.0	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	295.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	6.2	0.0010 mg/L	0.00148	0.0010 mg/L	0.00148	153.02%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-2.5	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	347.94%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-1.7	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	486.78%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-9.9	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	27.27%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-262.2	-0.0017 mg/L	0.00049	-0.0017 mg/L	0.00049	29.72%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	6.6	0.0031 mg/L	0.00152	0.0031 mg/L	0.00152	49.83%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	-6.0	-0.0020 mg/L	0.01357	-0.0020 mg/L	0.01357	675.11%

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QC value within limits for K 766.490	Recovery = Not calculated						
Mg 285.213†	4.5	0.0006 mg/L	0.00023	0.0006 mg/L	0.00023	39.45%	
QC value within limits for Mg 285.213	Recovery = Not calculated						
Mn 257.610†	5.3	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	42.47%	
QC value within limits for Mn 257.610	Recovery = Not calculated						
Mo 202.031†	27.9	0.0012 mg/L	0.00015	0.0012 mg/L	0.00015	12.03%	
QC value within limits for Mo 202.031	Recovery = Not calculated						
Na 589.592†	50.8	0.0048 mg/L	0.00163	0.0048 mg/L	0.00163	33.79%	
QC value within limits for Na 589.592	Recovery = Not calculated						
Ni 231.604†	-8.3	-0.0002 mg/L	0.00025	-0.0002 mg/L	0.00025	113.11%	
QC value within limits for Ni 231.604	Recovery = Not calculated						
Pb 220.353†	8.9	0.0008 mg/L	0.00046	0.0008 mg/L	0.00046	57.50%	
QC value within limits for Pb 220.353	Recovery = Not calculated						
Sb 206.836†	4.2	0.0008 mg/L	0.00075	0.0008 mg/L	0.00075	99.50%	
QC value within limits for Sb 206.836	Recovery = Not calculated						
Se 196.026†	6.5	0.0038 mg/L	0.00010	0.0038 mg/L	0.00010	2.63%	
QC value within limits for Se 196.026	Recovery = Not calculated						
Sn 189.927†	2.0	0.0003 mg/L	0.00052	0.0003 mg/L	0.00052	206.05%	
QC value within limits for Sn 189.927	Recovery = Not calculated						
Ti 337.279†	-10.2	-0.0006 mg/L	0.00030	-0.0006 mg/L	0.00030	51.09%	
QC value within limits for Ti 337.279	Recovery = Not calculated						
Tl 351.924†	-91.2	-0.0084 mg/L	0.00317	-0.0084 mg/L	0.00317	37.64%	
QC value within limits for Tl 351.924	Recovery = Not calculated						
V 290.880†	458.4	0.0023 mg/L	0.00012	0.0023 mg/L	0.00012	5.36%	
QC value within limits for V 290.880	Recovery = Not calculated						
Zn 206.200†	32.8	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	17.36%	
QC value within limits for Zn 206.200	Recovery = Not calculated						
Zr 343.823†	18.4	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	209.44%	
All analyte(s) passed QC.							

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 48
Sample ID: 24D0735-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 65
Date Collected: 4/16/2024 3:07:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSR
Y axial	4584239.0	96.35 %		0.581			0.60%
Y radial	186788.3	106.3 %		1.58			1.48%
Ag 328.068†	289.8	0.0011 mg/L		0.00017	0.0011 mg/L	0.00017	15.54%
Al 396.153†	2.7	0.0007 mg/L		0.00219	0.0007 mg/L	0.00219	314.14%
As 188.979†	-18.5	-0.0056 mg/L		0.00047	-0.0056 mg/L	0.00047	8.24%
B 208.889†	23.6	0.0014 mg/L		0.00088	0.0014 mg/L	0.00088	64.95%
Ba 233.527†	5218.8	0.0334 mg/L		0.00032	0.0334 mg/L	0.00032	0.95%
Be 313.107†	-35.2	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	21.94%
Ca 317.933†	209600.9	32.64 mg/L		0.726	32.64 mg/L	0.726	2.22%
Cd 228.802†	51060.6	0.4956 mg/L		0.00195	0.4956 mg/L	0.00195	0.39%
Co 228.616†	116.8	0.0013 mg/L		0.00010	0.0013 mg/L	0.00010	8.22%
Cr 267.716†	122.7	0.0012 mg/L		0.00013	0.0012 mg/L	0.00013	11.19%
Cu 327.393†	638.9	0.0040 mg/L		0.00016	0.0040 mg/L	0.00016	4.03%
Fe 238.204†	234.0	0.1082 mg/L		0.00302	0.1082 mg/L	0.00302	2.79%
K 766.490†	10699.1	3.566 mg/L		0.0752	3.566 mg/L	0.0752	2.11%
Mg 285.213†	40335.3	5.114 mg/L		0.0909	5.114 mg/L	0.0909	1.78%
Mn 257.610†	1094.7	0.0484 mg/L		0.00096	0.0484 mg/L	0.00096	1.98%
Mo 202.031†	27.0	0.0012 mg/L		0.00004	0.0012 mg/L	0.00004	3.46%
Na 589.592†	605445.5	57.69 mg/L		1.413	57.69 mg/L	1.413	2.45%
Ni 231.604†	97.5	0.0027 mg/L		0.00013	0.0027 mg/L	0.00013	4.70%
Pb 220.353†	38.4	0.0034 mg/L		0.00092	0.0034 mg/L	0.00092	27.13%
Sb 206.836†	18.7	0.0032 mg/L		0.00089	0.0032 mg/L	0.00089	28.08%
Se 196.026†	5.5	-0.0012 mg/L		0.00367	-0.0012 mg/L	0.00367	299.63%
Sn 189.927†	-214.4	-0.0273 mg/L		0.00047	-0.0273 mg/L	0.00047	1.74%
Ti 337.279†	-17.1	-0.0010 mg/L		0.00030	-0.0010 mg/L	0.00030	30.05%
Tl 351.924†	-119.1	-0.0109 mg/L		0.00410	-0.0109 mg/L	0.00410	37.53%
V 290.880†	699.4	0.0034 mg/L		0.00029	0.0034 mg/L	0.00029	8.36%
Zn 206.200†	1329.4	0.0154 mg/L		0.00023	0.0154 mg/L	0.00023	1.51%

Zr 343.823† 229.5 0.0006 mg/L 0.00012 0.0006 mg/L 0.00012 20.94%

Sequence No.: 49

Sample ID: 24D0735-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 66

Date Collected: 4/16/2024 3:13:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4780372.2	100.5	%	0.23			0.23%
Y radial	185975.6	105.9	%	1.28			1.21%
Ag 328.068†	343.3	0.0013	mg/L	0.00028	0.0013 mg/L	0.00028	21.83%
Al 396.153†	-8.9	-0.0025	mg/L	0.00247	-0.0025 mg/L	0.00247	99.29%
As 188.979†	-8.7	-0.0028	mg/L	0.00217	-0.0028 mg/L	0.00217	76.82%
B 208.889†	-22.2	-0.0014	mg/L	0.00026	-0.0014 mg/L	0.00026	19.41%
Ba 233.527†	2039.8	0.0131	mg/L	0.00007	0.0131 mg/L	0.00007	0.57%
Be 313.107†	-72.7	-0.0002	mg/L	0.00002	-0.0002 mg/L	0.00002	10.75%
Ca 317.933†	51298.7	7.988	mg/L	0.1566	7.988 mg/L	0.1566	1.96%
Cd 228.802†	5.7	0.0001	mg/L	0.00004	0.0001 mg/L	0.00004	31.36%
Co 228.616†	22.5	0.0002	mg/L	0.00007	0.0002 mg/L	0.00007	29.34%
Cr 267.716†	29.9	0.0003	mg/L	0.00006	0.0003 mg/L	0.00006	25.57%
Cu 327.393†	229.4	0.0014	mg/L	0.00006	0.0014 mg/L	0.00006	4.43%
Fe 238.204†	20.4	0.0094	mg/L	0.00080	0.0094 mg/L	0.00080	8.51%
K 766.490†	4113.5	1.371	mg/L	0.0171	1.371 mg/L	0.0171	1.25%
Mg 285.213†	10677.0	1.354	mg/L	0.0290	1.354 mg/L	0.0290	2.14%
Mn 257.610†	239.4	0.0106	mg/L	0.00027	0.0106 mg/L	0.00027	2.51%
Mo 202.031†	11.6	0.0005	mg/L	0.00016	0.0005 mg/L	0.00016	31.49%
Na 589.592†	114824.5	10.94	mg/L	0.186	10.94 mg/L	0.186	1.70%
Ni 231.604†	11.6	0.0003	mg/L	0.00013	0.0003 mg/L	0.00013	39.86%
Pb 220.353†	14.9	0.0013	mg/L	0.00037	0.0013 mg/L	0.00037	27.83%
Sb 206.836†	10.2	0.0018	mg/L	0.00108	0.0018 mg/L	0.00108	61.23%
Se 196.026†	-3.2	-0.0029	mg/L	0.00041	-0.0029 mg/L	0.00041	13.93%
Sn 189.927†	-79.5	-0.0101	mg/L	0.00036	-0.0101 mg/L	0.00036	3.56%
Ti 337.279†	-18.2	-0.0011	mg/L	0.00020	-0.0011 mg/L	0.00020	19.04%
Tl 351.924†	-53.2	-0.0049	mg/L	0.00268	-0.0049 mg/L	0.00268	54.73%
V 290.880†	312.1	0.0015	mg/L	0.00030	0.0015 mg/L	0.00030	19.68%
Zn 206.200†	105.5	0.0007	mg/L	0.00008	0.0007 mg/L	0.00008	11.77%
Zr 343.823†	21.9	0.0001	mg/L	0.00027	0.0001 mg/L	0.00027	484.37%

Sequence No.: 50

Sample ID: 24D0735-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 67

Date Collected: 4/16/2024 3:19:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4689591.0	98.56	%	0.826			0.84%
Y radial	188502.4	107.3	%	0.73			0.68%
Ag 328.068†	236.4	0.0008	mg/L	0.00031	0.0008 mg/L	0.00031	36.61%
Al 396.153†	10.8	0.0029	mg/L	0.00449	0.0029 mg/L	0.00449	152.57%
As 188.979†	-19.0	-0.0054	mg/L	0.00205	-0.0054 mg/L	0.00205	37.85%
B 208.889†	451.6	0.0270	mg/L	0.00117	0.0270 mg/L	0.00117	4.33%
Ba 233.527†	3454.4	0.0221	mg/L	0.00020	0.0221 mg/L	0.00020	0.89%
Be 313.107†	-21.8	-0.0001	mg/L	0.00000	-0.0001 mg/L	0.00000	2.24%
Ca 317.933†	339857.5	52.92	mg/L	0.290	52.92 mg/L	0.290	0.55%
Cd 228.802†	4961.5	0.0483	mg/L	0.00053	0.0483 mg/L	0.00053	1.10%
Co 228.616†	59.8	0.0007	mg/L	0.00003	0.0007 mg/L	0.00003	4.41%
Cr 267.716†	181.3	0.0015	mg/L	0.00007	0.0015 mg/L	0.00007	4.94%
Cu 327.393†	155.2	0.0010	mg/L	0.00033	0.0010 mg/L	0.00033	33.12%
Fe 238.204†	46.4	0.0214	mg/L	0.00175	0.0214 mg/L	0.00175	8.15%

K 766.490†	17176.0	5.724 mg/L	0.0547	5.724 mg/L	0.0547	0.96%
Mg 285.213†	44037.1	5.579 mg/L	0.0474	5.579 mg/L	0.0474	0.85%
Mn 257.610†	4469.5	0.1974 mg/L	0.00146	0.1974 mg/L	0.00146	0.74%
Mo 202.031†	31.8	0.0014 mg/L	0.00002	0.0014 mg/L	0.00002	1.50%
Na 589.592†	240493.0	22.92 mg/L	0.071	22.92 mg/L	0.071	0.31%
Ni 231.604†	76.5	0.0021 mg/L	0.00010	0.0021 mg/L	0.00010	4.76%
Pb 220.353†	37.5	0.0033 mg/L	0.00029	0.0033 mg/L	0.00029	8.79%
Sb 206.836†	26.1	0.0044 mg/L	0.00062	0.0044 mg/L	0.00062	13.92%
Se 196.026†	7.3	-0.0024 mg/L	0.00325	-0.0024 mg/L	0.00325	137.50%
Sn 189.927†	-254.6	-0.0324 mg/L	0.00024	-0.0324 mg/L	0.00024	0.73%
Ti 337.279†	-17.3	-0.0010 mg/L	0.00038	-0.0010 mg/L	0.00038	37.52%
Tl 351.924†	-83.9	-0.0077 mg/L	0.00120	-0.0077 mg/L	0.00120	15.51%
V 290.880†	714.5	0.0035 mg/L	0.00075	0.0035 mg/L	0.00075	21.25%
Zn 206.200†	109.5	-0.0003 mg/L	0.00013	-0.0003 mg/L	0.00013	47.87%
Zr 343.823†	169.7	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	25.72%

Sequence No.: 51

Sample ID: 24D0735-09

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 68

Date Collected: 4/16/2024 3:24:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-09

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4779579.6	100.5 %		0.15				0.15%
Y radial	189565.5	107.9 %		0.16				0.14%
Ag 328.068†	328.3	0.0012 mg/L		0.00019	0.0012 mg/L		0.00019	15.19%
Al 396.153†	257.9	0.0717 mg/L		0.00128	0.0717 mg/L		0.00128	1.78%
As 188.979†	-13.5	-0.0038 mg/L		0.00190	-0.0038 mg/L		0.00190	50.32%
B 208.889†	-97.1	-0.0059 mg/L		0.00031	-0.0059 mg/L		0.00031	5.27%
Ba 233.527†	2358.3	0.0150 mg/L		0.00009	0.0150 mg/L		0.00009	0.61%
Be 313.107†	-35.3	-0.0001 mg/L		0.00001	-0.0001 mg/L		0.00001	13.36%
Ca 317.933†	181943.8	28.33 mg/L		0.268	28.33 mg/L		0.268	0.95%
Cd 228.802†	17.1	0.0003 mg/L		0.00004	0.0003 mg/L		0.00004	15.23%
Co 228.616†	45.7	0.0005 mg/L		0.00008	0.0005 mg/L		0.00008	15.45%
Cr 267.716†	140.4	0.0011 mg/L		0.00005	0.0011 mg/L		0.00005	4.78%
Cu 327.393†	118.2	0.0007 mg/L		0.00015	0.0007 mg/L		0.00015	19.51%
Fe 238.204†	1914.7	0.8848 mg/L		0.00314	0.8848 mg/L		0.00314	0.36%
K 766.490†	12408.3	4.135 mg/L		0.0257	4.135 mg/L		0.0257	0.62%
Mg 285.213†	41147.2	5.219 mg/L		0.0154	5.219 mg/L		0.0154	0.29%
Mn 257.610†	3016.4	0.1333 mg/L		0.00022	0.1333 mg/L		0.00022	0.16%
Mo 202.031†	29.5	0.0013 mg/L		0.00013	0.0013 mg/L		0.00013	10.38%
Na 589.592†	390382.1	37.20 mg/L		0.504	37.20 mg/L		0.504	1.36%
Ni 231.604†	35.6	0.0010 mg/L		0.00007	0.0010 mg/L		0.00007	7.15%
Pb 220.353†	27.7	0.0024 mg/L		0.00060	0.0024 mg/L		0.00060	24.76%
Sb 206.836†	16.5	0.0028 mg/L		0.00060	0.0028 mg/L		0.00060	21.31%
Se 196.026†	10.2	0.0019 mg/L		0.00132	0.0019 mg/L		0.00132	68.28%
Sn 189.927†	-199.1	-0.0254 mg/L		0.00032	-0.0254 mg/L		0.00032	1.25%
Ti 337.279†	-0.2	-0.0000 mg/L		0.00023	-0.0000 mg/L		0.00023	>999.9%
Tl 351.924†	-103.4	-0.0090 mg/L		0.00395	-0.0090 mg/L		0.00395	44.02%
V 290.880†	708.1	0.0034 mg/L		0.00010	0.0034 mg/L		0.00010	2.82%
Zn 206.200†	179.8	-0.0005 mg/L		0.00013	-0.0005 mg/L		0.00013	27.15%
Zr 343.823†	210.7	0.0005 mg/L		0.00004	0.0005 mg/L		0.00004	7.28%

Sequence No.: 52

Sample ID: 24D0735-10

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 69

Date Collected: 4/16/2024 3:30:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD

Y axial	4716127.3	99.12 %	0.208			0.21%
Y radial	185799.4	105.8 %	1.75			1.66%
Ag 328.068†	388.4	0.0015 mg/L	0.00016	0.0015 mg/L	0.00016	10.59%
Al 396.153†	24.0	0.0066 mg/L	0.00531	0.0066 mg/L	0.00531	79.79%
As 188.979†	-7.5	-0.0024 mg/L	0.00117	-0.0024 mg/L	0.00117	47.77%
B 208.889†	-546.7	-0.0328 mg/L	0.00015	-0.0328 mg/L	0.00015	0.46%
Ba 233.527†	1464.0	0.0094 mg/L	0.00001	0.0094 mg/L	0.00001	0.15%
Be 313.107†	-26.1	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	18.88%
Ca 317.933†	37932.0	5.907 mg/L	0.0359	5.907 mg/L	0.0359	0.61%
Cd 228.802†	53.0	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	8.65%
Co 228.616†	15.9	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	32.68%
Cr 267.716†	64.1	0.0005 mg/L	0.00003	0.0005 mg/L	0.00003	6.26%
Cu 327.393†	1154.1	0.0073 mg/L	0.00020	0.0073 mg/L	0.00020	2.76%
Fe 238.204†	47.0	0.0217 mg/L	0.00161	0.0217 mg/L	0.00161	7.42%
K 766.490†	1633.8	0.5445 mg/L	0.00703	0.5445 mg/L	0.00703	1.29%
Mg 285.213†	7237.0	0.9176 mg/L	0.00383	0.9176 mg/L	0.00383	0.42%
Mn 257.610†	69.8	0.0031 mg/L	0.00020	0.0031 mg/L	0.00020	6.56%
Mo 202.031†	15.4	0.0007 mg/L	0.00016	0.0007 mg/L	0.00016	23.25%
Na 589.592†	98297.4	9.367 mg/L	0.0387	9.367 mg/L	0.0387	0.41%
Ni 231.604†	53.6	0.0015 mg/L	0.00026	0.0015 mg/L	0.00026	17.45%
Pb 220.353†	10.9	0.0010 mg/L	0.00050	0.0010 mg/L	0.00050	52.75%
Sb 206.836†	11.0	0.0019 mg/L	0.00079	0.0019 mg/L	0.00079	41.46%
Se 196.026†	-2.0	-0.0019 mg/L	0.00116	-0.0019 mg/L	0.00116	59.83%
Sn 189.927†	-63.4	-0.0081 mg/L	0.00027	-0.0081 mg/L	0.00027	3.38%
Ti 337.279†	-11.9	-0.0007 mg/L	0.00024	-0.0007 mg/L	0.00024	34.04%
Tl 351.924†	-83.6	-0.0077 mg/L	0.00691	-0.0077 mg/L	0.00691	89.65%
V 290.880†	1006.1	0.0050 mg/L	0.00036	0.0050 mg/L	0.00036	7.25%
Zn 206.200†	2451.7	0.0367 mg/L	0.00015	0.0367 mg/L	0.00015	0.42%
Zr 343.823†	79.7	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	50.38%

Sequence No.: 53

Sample ID: 24D0735-11

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 70

Date Collected: 4/16/2024 3:35:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4658038.6	97.90 %		0.335			0.34%
Y radial	186393.4	106.1 %		0.01			0.01%
Ag 328.068†	301.6	0.0011 mg/L		0.00025	0.0011 mg/L	0.00025	21.91%
Al 396.153†	21.7	0.0060 mg/L		0.00259	0.0060 mg/L	0.00259	43.22%
As 188.979†	-10.8	-0.0033 mg/L		0.00129	-0.0033 mg/L	0.00129	39.05%
B 208.889†	-214.5	-0.0129 mg/L		0.00036	-0.0129 mg/L	0.00036	2.75%
Ba 233.527†	2196.4	0.0141 mg/L		0.00006	0.0141 mg/L	0.00006	0.45%
Be 313.107†	-27.8	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	27.42%
Ca 317.933†	127678.1	19.88 mg/L		0.200	19.88 mg/L	0.200	1.01%
Cd 228.802†	9.2	0.0002 mg/L		0.00003	0.0002 mg/L	0.00003	18.43%
Co 228.616†	26.5	0.0003 mg/L		0.00007	0.0003 mg/L	0.00007	24.34%
Cr 267.716†	102.2	0.0009 mg/L		0.00007	0.0009 mg/L	0.00007	8.37%
Cu 327.393†	533.0	0.0034 mg/L		0.00043	0.0034 mg/L	0.00043	12.73%
Fe 238.204†	49.6	0.0229 mg/L		0.00112	0.0229 mg/L	0.00112	4.89%
K 766.490†	4427.3	1.475 mg/L		0.0110	1.475 mg/L	0.0110	0.74%
Mg 285.213†	48204.1	6.118 mg/L		0.0525	6.118 mg/L	0.0525	0.86%
Mn 257.610†	24.7	0.0011 mg/L		0.00013	0.0011 mg/L	0.00013	11.44%
Mo 202.031†	23.1	0.0010 mg/L		0.00016	0.0010 mg/L	0.00016	15.53%
Na 589.592†	129133.3	12.31 mg/L		0.095	12.31 mg/L	0.095	0.77%
Ni 231.604†	48.4	0.0014 mg/L		0.00021	0.0014 mg/L	0.00021	15.51%
Pb 220.353†	26.3	0.0023 mg/L		0.00090	0.0023 mg/L	0.00090	38.89%
Sb 206.836†	19.8	0.0034 mg/L		0.00064	0.0034 mg/L	0.00064	18.86%
Se 196.026†	5.6	-0.0000 mg/L		0.00332	-0.0000 mg/L	0.00332	>999.9%
Sn 189.927†	-167.1	-0.0213 mg/L		0.00069	-0.0213 mg/L	0.00069	3.24%
Ti 337.279†	-13.9	-0.0008 mg/L		0.00025	-0.0008 mg/L	0.00025	30.82%
Tl 351.924†	-132.0	-0.0122 mg/L		0.00366	-0.0122 mg/L	0.00366	30.09%
V 290.880†	789.8	0.0039 mg/L		0.00020	0.0039 mg/L	0.00020	5.07%
Zn 206.200†	438.3	0.0056 mg/L		0.00002	0.0056 mg/L	0.00002	0.31%

Zr 343.823† 187.0 0.0005 mg/L 0.00011 0.0005 mg/L 0.00011 24.20%

Sequence No.: 54

Sample ID: 24D0735-12

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 71

Date Collected: 4/16/2024 3:41:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-12

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4721812.5	99.24 %		0.875			0.88%
Y radial	186953.5	106.4 %		1.50			1.41%
Ag 328.068†	314.9	0.0012 mg/L		0.00012	0.0012 mg/L	0.00012	9.69%
Al 396.153†	27.6	0.0078 mg/L		0.00123	0.0078 mg/L	0.00123	15.81%
As 188.979†	-8.2	-0.0019 mg/L		0.00177	-0.0019 mg/L	0.00177	92.89%
B 208.889†	-134.4	-0.0081 mg/L		0.00082	-0.0081 mg/L	0.00082	10.22%
Ba 233.527†	6377.4	0.0406 mg/L		0.00032	0.0406 mg/L	0.00032	0.79%
Be 313.107†	12.6	0.0000 mg/L		0.00002	0.0000 mg/L	0.00002	82.95%
Ca 317.933†	80362.4	12.51 mg/L		0.041	12.51 mg/L	0.041	0.33%
Cd 228.802†	-1.9	0.0001 mg/L		0.00013	0.0001 mg/L	0.00013	165.58%
Co 228.616†	109.9	0.0012 mg/L		0.00014	0.0012 mg/L	0.00014	11.34%
Cr 267.716†	64.1	0.0005 mg/L		0.00004	0.0005 mg/L	0.00004	8.86%
Cu 327.393†	74.8	0.0005 mg/L		0.00018	0.0005 mg/L	0.00018	37.01%
Fe 238.204†	4892.3	2.261 mg/L		0.0320	2.261 mg/L	0.0320	1.41%
K 766.490†	4099.0	1.366 mg/L		0.0308	1.366 mg/L	0.0308	2.26%
Mg 285.213†	43565.0	5.532 mg/L		0.0218	5.532 mg/L	0.0218	0.39%
Mn 257.610†	3071.8	0.1359 mg/L		0.00184	0.1359 mg/L	0.00184	1.36%
Mo 202.031†	3.0	0.0001 mg/L		0.00035	0.0001 mg/L	0.00035	270.90%
Na 589.592†	356230.6	33.94 mg/L		0.187	33.94 mg/L	0.187	0.55%
Ni 231.604†	33.9	0.0009 mg/L		0.00021	0.0009 mg/L	0.00021	22.51%
Pb 220.353†	19.7	0.0017 mg/L		0.00132	0.0017 mg/L	0.00132	79.12%
Sb 206.836†	6.4	0.0011 mg/L		0.00093	0.0011 mg/L	0.00093	82.19%
Se 196.026†	10.7	0.0039 mg/L		0.00347	0.0039 mg/L	0.00347	89.72%
Sn 189.927†	-122.0	-0.0155 mg/L		0.00048	-0.0155 mg/L	0.00048	3.08%
Ti 337.279†	-17.0	-0.0010 mg/L		0.00052	-0.0010 mg/L	0.00052	52.98%
Tl 351.924†	-117.7	-0.0094 mg/L		0.01212	-0.0094 mg/L	0.01212	129.14%
V 290.880†	380.7	0.0017 mg/L		0.00021	0.0017 mg/L	0.00021	12.19%
Zn 206.200†	316.4	0.0018 mg/L		0.00004	0.0018 mg/L	0.00004	2.01%
Zr 343.823†	103.3	0.0002 mg/L		0.00010	0.0002 mg/L	0.00010	48.86%

Sequence No.: 55

Sample ID: 24D0735-13

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 72

Date Collected: 4/16/2024 3:46:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-13

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4725502.8	99.32 %		0.972			0.98%
Y radial	189679.2	108.0 %		1.35			1.25%
Ag 328.068†	311.4	0.0012 mg/L		0.00016	0.0012 mg/L	0.00016	13.35%
Al 396.153†	-23.5	-0.0065 mg/L		0.00454	-0.0065 mg/L	0.00454	69.36%
As 188.979†	-11.1	-0.0035 mg/L		0.00159	-0.0035 mg/L	0.00159	45.37%
B 208.889†	-306.2	-0.0184 mg/L		0.00080	-0.0184 mg/L	0.00080	4.33%
Ba 233.527†	1344.4	0.0086 mg/L		0.00012	0.0086 mg/L	0.00012	1.40%
Be 313.107†	-51.2	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	20.07%
Ca 317.933†	100700.2	15.68 mg/L		0.131	15.68 mg/L	0.131	0.84%
Cd 228.802†	137.4	0.0014 mg/L		0.00003	0.0014 mg/L	0.00003	1.95%
Co 228.616†	31.6	0.0003 mg/L		0.00009	0.0003 mg/L	0.00009	26.51%
Cr 267.716†	436.8	0.0037 mg/L		0.00003	0.0037 mg/L	0.00003	0.86%
Cu 327.393†	84.7	0.0005 mg/L		0.00008	0.0005 mg/L	0.00008	15.41%
Fe 238.204†	21.1	0.0098 mg/L		0.00016	0.0098 mg/L	0.00016	1.66%

K 766.490†	5635.9	1.878 mg/L	0.0394	1.878 mg/L	0.0394	2.10%
Mg 285.213†	13506.1	1.711 mg/L	0.0128	1.711 mg/L	0.0128	0.75%
Mn 257.610†	23.8	0.0011 mg/L	0.00015	0.0011 mg/L	0.00015	14.04%
Mo 202.031†	9.7	0.0004 mg/L	0.00027	0.0004 mg/L	0.00027	63.81%
Na 589.592†	101709.2	9.692 mg/L	0.0451	9.692 mg/L	0.0451	0.47%
Ni 231.604†	34.3	0.0010 mg/L	0.00021	0.0010 mg/L	0.00021	22.24%
Pb 220.353†	15.2	0.0013 mg/L	0.00009	0.0013 mg/L	0.00009	6.59%
Sb 206.836†	13.9	0.0023 mg/L	0.00076	0.0023 mg/L	0.00076	33.07%
Se 196.026†	1.3	-0.0012 mg/L	0.00167	-0.0012 mg/L	0.00167	137.48%
Sn 189.927†	-136.1	-0.0173 mg/L	0.00030	-0.0173 mg/L	0.00030	1.74%
Ti 337.279†	-19.1	-0.0011 mg/L	0.00011	-0.0011 mg/L	0.00011	9.63%
Tl 351.924†	-100.5	-0.0093 mg/L	0.00062	-0.0093 mg/L	0.00062	6.73%
V 290.880†	633.5	0.0031 mg/L	0.00032	0.0031 mg/L	0.00032	10.34%
Zn 206.200†	7.1	-0.0007 mg/L	0.00001	-0.0007 mg/L	0.00001	0.77%
Zr 343.823†	116.8	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016	53.13%

Sequence No.: 56

Sample ID: 24D0735-14

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 73

Date Collected: 4/16/2024 3:52:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4780023.2	100.5 %		0.64			0.64%
Y radial	186732.9	106.3 %		2.23			2.09%
Ag 328.068†	345.8	0.0013 mg/L		0.00027	0.0013 mg/L	0.00027	20.40%
Al 396.153†	-13.3	-0.0037 mg/L		0.00179	-0.0037 mg/L	0.00179	47.97%
As 188.979†	-13.9	-0.0044 mg/L		0.00333	-0.0044 mg/L	0.00333	75.05%
B 208.889†	-613.3	-0.0368 mg/L		0.00018	-0.0368 mg/L	0.00018	0.49%
Ba 233.527†	707.3	0.0045 mg/L		0.00007	0.0045 mg/L	0.00007	1.54%
Be 313.107†	-27.8	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	42.06%
Ca 317.933†	103423.7	16.10 mg/L		0.408	16.10 mg/L	0.408	2.53%
Cd 228.802†	-0.4	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	39.75%
Co 228.616†	30.1	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	17.54%
Cr 267.716†	154.2	0.0013 mg/L		0.00006	0.0013 mg/L	0.00006	4.70%
Cu 327.393†	108.7	0.0007 mg/L		0.00034	0.0007 mg/L	0.00034	48.94%
Fe 238.204†	13.6	0.0063 mg/L		0.00173	0.0063 mg/L	0.00173	27.37%
K 766.490†	2146.3	0.7153 mg/L		0.02423	0.7153 mg/L	0.02423	3.39%
Mg 285.213†	13521.8	1.713 mg/L		0.0440	1.713 mg/L	0.0440	2.57%
Mn 257.610†	18.7	0.0008 mg/L		0.00013	0.0008 mg/L	0.00013	16.20%
Mo 202.031†	15.5	0.0007 mg/L		0.00027	0.0007 mg/L	0.00027	39.59%
Na 589.592†	54882.8	5.230 mg/L		0.1273	5.230 mg/L	0.1273	2.43%
Ni 231.604†	19.3	0.0005 mg/L		0.00017	0.0005 mg/L	0.00017	31.08%
Pb 220.353†	13.0	0.0011 mg/L		0.00009	0.0011 mg/L	0.00009	7.53%
Sb 206.836†	11.9	0.0020 mg/L		0.00145	0.0020 mg/L	0.00145	72.76%
Se 196.026†	4.9	0.0008 mg/L		0.00361	0.0008 mg/L	0.00361	430.79%
Sn 189.927†	-133.7	-0.0170 mg/L		0.00046	-0.0170 mg/L	0.00046	2.68%
Ti 337.279†	-13.8	-0.0008 mg/L		0.00016	-0.0008 mg/L	0.00016	20.19%
Tl 351.924†	-81.6	-0.0075 mg/L		0.00658	-0.0075 mg/L	0.00658	87.37%
V 290.880†	636.7	0.0031 mg/L		0.00009	0.0031 mg/L	0.00009	2.81%
Zn 206.200†	86.9	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	12.37%
Zr 343.823†	66.6	0.0002 mg/L		0.00020	0.0002 mg/L	0.00020	120.85%

Sequence No.: 57

Sample ID: 24D0735-15

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 74

Date Collected: 4/16/2024 3:57:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y axial	4770573.2	100.3 %	0.56			0.56%
Y radial	189818.9	108.1 %	1.15			1.06%
Ag 328.068†	250.8	0.0009 mg/L	0.00016	0.0009 mg/L	0.00016	16.73%
Al 396.153†	-12.2	-0.0034 mg/L	0.00358	-0.0034 mg/L	0.00358	104.23%
As 188.979†	-14.3	-0.0042 mg/L	0.00195	-0.0042 mg/L	0.00195	46.02%
B 208.889†	-401.5	-0.0241 mg/L	0.00074	-0.0241 mg/L	0.00074	3.08%
Ba 233.527†	6812.0	0.0436 mg/L	0.00020	0.0436 mg/L	0.00020	0.46%
Be 313.107†	-51.0	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	11.79%
Ca 317.933†	202842.2	31.59 mg/L	0.140	31.59 mg/L	0.140	0.44%
Cd 228.802†	395.5	0.0040 mg/L	0.00004	0.0040 mg/L	0.00004	0.98%
Co 228.616†	54.3	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	19.71%
Cr 267.716†	122.5	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	5.38%
Cu 327.393†	353.5	0.0022 mg/L	0.00008	0.0022 mg/L	0.00008	3.63%
Fe 238.204†	32.7	0.0151 mg/L	0.00077	0.0151 mg/L	0.00077	5.07%
K 766.490†	8446.3	2.815 mg/L	0.0432	2.815 mg/L	0.0432	1.53%
Mg 285.213†	33030.2	4.187 mg/L	0.0504	4.187 mg/L	0.0504	1.20%
Mn 257.610†	36.2	0.0016 mg/L	0.00028	0.0016 mg/L	0.00028	17.30%
Mo 202.031†	23.8	0.0010 mg/L	0.00007	0.0010 mg/L	0.00007	6.92%
Na 589.592†	530261.6	50.53 mg/L	0.221	50.53 mg/L	0.221	0.44%
Ni 231.604†	37.5	0.0010 mg/L	0.00027	0.0010 mg/L	0.00027	25.63%
Pb 220.353†	29.7	0.0026 mg/L	0.00073	0.0026 mg/L	0.00073	27.87%
Sb 206.836†	11.8	0.0019 mg/L	0.00057	0.0019 mg/L	0.00057	29.71%
Se 196.026†	10.6	0.0021 mg/L	0.00097	0.0021 mg/L	0.00097	46.50%
Sn 189.927†	-207.5	-0.0264 mg/L	0.00028	-0.0264 mg/L	0.00028	1.05%
Ti 337.279†	-20.5	-0.0012 mg/L	0.00030	-0.0012 mg/L	0.00030	25.38%
Tl 351.924†	-66.3	-0.0061 mg/L	0.00535	-0.0061 mg/L	0.00535	87.75%
V 290.880†	278.2	0.0014 mg/L	0.00032	0.0014 mg/L	0.00032	23.37%
Zn 206.200†	254.0	-0.0004 mg/L	0.00004	-0.0004 mg/L	0.00004	9.19%
Zr 343.823†	105.1	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	30.61%

Sequence No.: 58

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 4:03:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4679575.3	98.35 %		1.233			1.25%
Y radial	189332.7	107.8 %		0.35			0.33%
Ag 328.068†	606746.7	2.244 mg/L		0.0218	2.244 mg/L	0.0218	0.97%
QC value less than the lower limit for Ag 328.068 Recovery = 89.75%							
Al 396.153†	33473.4	9.052 mg/L		0.0451	9.052 mg/L	0.0451	0.50%
QC value within limits for Al 396.153 Recovery = 90.52%							
As 188.979†	14009.0	4.795 mg/L		0.0262	4.795 mg/L	0.0262	0.55%
QC value within limits for As 188.979 Recovery = 95.90%							
B 208.889†	79816.4	4.546 mg/L		0.0421	4.546 mg/L	0.0421	0.93%
QC value within limits for B 208.889 Recovery = 90.91%							
Ba 233.527†	754164.3	4.839 mg/L		0.0416	4.839 mg/L	0.0416	0.86%
QC value within limits for Ba 233.527 Recovery = 96.79%							
Be 313.107†	1945382.4	4.809 mg/L		0.0076	4.809 mg/L	0.0076	0.16%
QC value within limits for Be 313.107 Recovery = 96.17%							
Ca 317.933†	59694.7	9.295 mg/L		0.0767	9.295 mg/L	0.0767	0.83%
QC value within limits for Ca 317.933 Recovery = 92.95%							
Cd 228.802†	503307.7	4.797 mg/L		0.0501	4.797 mg/L	0.0501	1.04%
QC value within limits for Cd 228.802 Recovery = 95.95%							
Co 228.616†	448944.8	4.841 mg/L		0.0436	4.841 mg/L	0.0436	0.90%
QC value within limits for Co 228.616 Recovery = 96.82%							
Cr 267.716†	561886.4	4.786 mg/L		0.0401	4.786 mg/L	0.0401	0.84%
QC value within limits for Cr 267.716 Recovery = 95.73%							
Cu 327.393†	759482.5	4.814 mg/L		0.0406	4.814 mg/L	0.0406	0.84%
QC value within limits for Cu 327.393 Recovery = 96.28%							
Fe 238.204†	10229.0	4.752 mg/L		0.0379	4.752 mg/L	0.0379	0.80%
QC value within limits for Fe 238.204 Recovery = 95.05%							
K 766.490†	28896.9	9.630 mg/L		0.0299	9.630 mg/L	0.0299	0.31%
QC value within limits for K 766.490 Recovery = 96.30%							

SEE RR NDC
4/17/24

Mg	285.213†	74538.5	9.445 mg/L	0.0495	9.445 mg/L	0.0495	0.52%
	QC value within limits for Mg 285.213 Recovery = 94.45%						
Mn	257.610†	108144.2	4.777 mg/L	0.0294	4.777 mg/L	0.0294	0.62%
	QC value within limits for Mn 257.610 Recovery = 95.54%						
Mo	202.031†	110689.0	4.795 mg/L	0.0373	4.795 mg/L	0.0373	0.78%
	QC value within limits for Mo 202.031 Recovery = 95.90%						
Na	589.592†	103449.6	9.858 mg/L	0.0228	9.858 mg/L	0.0228	0.23%
	QC value within limits for Na 589.592 Recovery = 98.58%						
Ni	231.604†	174403.9	4.833 mg/L	0.0389	4.833 mg/L	0.0389	0.81%
	QC value within limits for Ni 231.604 Recovery = 96.66%						
Pb	220.353†	54178.7	4.803 mg/L	0.0438	4.803 mg/L	0.0438	0.91%
	QC value within limits for Pb 220.353 Recovery = 96.07%						
Sb	206.836†	27245.5	4.787 mg/L	0.0398	4.787 mg/L	0.0398	0.83%
	QC value within limits for Sb 206.836 Recovery = 95.73%						
Se	196.026†	8384.0	4.862 mg/L	0.0318	4.862 mg/L	0.0318	0.65%
	QC value within limits for Se 196.026 Recovery = 97.24%						
Sn	189.927†	37597.2	4.785 mg/L	0.0465	4.785 mg/L	0.0465	0.97%
	QC value within limits for Sn 189.927 Recovery = 95.71%						
Ti	337.279†	81900.3	4.760 mg/L	0.0330	4.760 mg/L	0.0330	0.69%
	QC value within limits for Ti 337.279 Recovery = 95.20%						
Tl	351.924†	26403.8	2.394 mg/L	0.0248	2.394 mg/L	0.0248	1.03%
	QC value within limits for Tl 351.924 Recovery = 95.76%						
V	290.880†	974034.5	4.815 mg/L	0.0428	4.815 mg/L	0.0428	0.89%
	QC value within limits for V 290.880 Recovery = 96.29%						
Zn	206.200†	314877.7	4.837 mg/L	0.0419	4.837 mg/L	0.0419	0.87%
	QC value within limits for Zn 206.200 Recovery = 96.73%						
Zr	343.823†	1896716.8	4.781 mg/L	0.0401	4.781 mg/L	0.0401	0.84%

QC Failed. Continue with analysis.
User canceled analysis.

SEE RR NDC
4/17/24

=====

Analysis Begun

Start Time: 4/16/2024 4:08:24 PM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/16/2024 4:08:25 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 4:13:13 PM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 58

Autosampler Location: 5

Sample ID: SEQ-CCV@ 23J0975

Date Collected: 4/16/2024 4:13:13 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4682358.8	98.41 %	0.630			0.64%
Y radial	186216.6	106.0 %	1.05			0.99%
Ag 328.068†	653093.2	2.416 mg/L	0.0179	2.416 mg/L	0.0179	0.74%
QC value within limits for Ag 328.068		Recovery = 96.65%				
Al 396.153†	34534.3	9.344 mg/L	0.1562	9.344 mg/L	0.1562	1.67%
QC value within limits for Al 396.153		Recovery = 93.44%				
As 188.979†	13992.9	4.790 mg/L	0.0214	4.790 mg/L	0.0214	0.45%
QC value within limits for As 188.979		Recovery = 95.79%				
B 208.889†	80527.9	4.586 mg/L	0.0350	4.586 mg/L	0.0350	0.76%
QC value within limits for B 208.889		Recovery = 91.72%				
Ba 233.527†	761669.4	4.887 mg/L	0.0273	4.887 mg/L	0.0273	0.56%
QC value within limits for Ba 233.527		Recovery = 97.75%				
Be 313.107†	1942868.7	4.802 mg/L	0.0783	4.802 mg/L	0.0783	1.63%
QC value within limits for Be 313.107		Recovery = 96.04%				
Ca 317.933†	60598.6	9.436 mg/L	0.1443	9.436 mg/L	0.1443	1.53%
QC value within limits for Ca 317.933		Recovery = 94.36%				
Cd 228.802†	505092.3	4.815 mg/L	0.0282	4.815 mg/L	0.0282	0.59%
QC value within limits for Cd 228.802		Recovery = 96.30%				
Co 228.616†	452050.2	4.874 mg/L	0.0322	4.874 mg/L	0.0322	0.66%
QC value within limits for Co 228.616		Recovery = 97.49%				
Cr 267.716†	569592.8	4.852 mg/L	0.0293	4.852 mg/L	0.0293	0.60%
QC value within limits for Cr 267.716		Recovery = 97.04%				
Cu 327.393†	767981.5	4.868 mg/L	0.0302	4.868 mg/L	0.0302	0.62%
QC value within limits for Cu 327.393		Recovery = 97.36%				

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By NC at 11:01 am, Apr 17, 2024

Fe 238.204†	10438.5	4.849 mg/L	0.0708	4.849 mg/L	0.0708	1.46%
QC value within limits for Fe 238.204 Recovery = 96.99%						
K 766.490†	28475.2	9.490 mg/L	0.1620	9.490 mg/L	0.1620	1.71%
QC value within limits for K 766.490 Recovery = 94.90%						
Mg 285.213†	75889.6	9.616 mg/L	0.1613	9.616 mg/L	0.1613	1.68%
QC value within limits for Mg 285.213 Recovery = 96.16%						
Mn 257.610†	109857.2	4.853 mg/L	0.0812	4.853 mg/L	0.0812	1.67%
QC value within limits for Mn 257.610 Recovery = 97.05%						
Mo 202.031†	111787.5	4.843 mg/L	0.0320	4.843 mg/L	0.0320	0.66%
QC value within limits for Mo 202.031 Recovery = 96.86%						
Na 589.592†	97708.6	9.311 mg/L	0.1777	9.311 mg/L	0.1777	1.91%
QC value within limits for Na 589.592 Recovery = 93.11%						
Ni 231.604†	176118.6	4.881 mg/L	0.0306	4.881 mg/L	0.0306	0.63%
QC value within limits for Ni 231.604 Recovery = 97.61%						
Pb 220.353†	54520.8	4.834 mg/L	0.0113	4.834 mg/L	0.0113	0.23%
QC value within limits for Pb 220.353 Recovery = 96.67%						
Sb 206.836†	27048.2	4.751 mg/L	0.0104	4.751 mg/L	0.0104	0.22%
QC value within limits for Sb 206.836 Recovery = 95.02%						
Se 196.026†	8315.9	4.823 mg/L	0.0093	4.823 mg/L	0.0093	0.19%
QC value within limits for Se 196.026 Recovery = 96.46%						
Sn 189.927†	37682.2	4.796 mg/L	0.0048	4.796 mg/L	0.0048	0.10%
QC value within limits for Sn 189.927 Recovery = 95.92%						
Ti 337.279†	82675.4	4.805 mg/L	0.0809	4.805 mg/L	0.0809	1.68%
QC value within limits for Ti 337.279 Recovery = 96.10%						
Tl 351.924†	26328.6	2.387 mg/L	0.0031	2.387 mg/L	0.0031	0.13%
QC value within limits for Tl 351.924 Recovery = 95.47%						
V 290.880†	980196.7	4.845 mg/L	0.0321	4.845 mg/L	0.0321	0.66%
QC value within limits for V 290.880 Recovery = 96.90%						
Zn 206.200†	316258.5	4.857 mg/L	0.0350	4.857 mg/L	0.0350	0.72%
QC value within limits for Zn 206.200 Recovery = 97.14%						
Zr 343.823†	1923401.8	4.848 mg/L	0.0254	4.848 mg/L	0.0254	0.52%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 59

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 4:18:56 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4817688.6	101.3 %	1.45			1.43%
Y radial	187456.2	106.7 %	2.91			2.73%
Ag 328.068†	304.6	0.0011 mg/L	0.00026	0.0011 mg/L	0.00026	23.19%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-18.5	-0.0052 mg/L	0.00842	-0.0052 mg/L	0.00842	162.26%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-2.3	-0.0008 mg/L	0.00092	-0.0008 mg/L	0.00092	118.48%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-636.1	-0.0382 mg/L	0.00028	-0.0382 mg/L	0.00028	0.75%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	13.8	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	61.11%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-13.4	-0.0000 mg/L	0.00005	-0.0000 mg/L	0.00005	121.75%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	15.4	0.0024 mg/L	0.00539	0.0024 mg/L	0.00539	224.71%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	4.5	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	134.55%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	11.8	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	42.87%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-9.1	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	155.19%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-233.9	-0.0015 mg/L	0.00018	-0.0015 mg/L	0.00018	11.90%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	7.3	0.0034 mg/L	0.00195	0.0034 mg/L	0.00195	57.90%

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By NC at 11:01 am, Apr 17, 2024

QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† -44.8 -0.0149 mg/L 0.02370 -0.0149 mg/L 0.02370 158.76%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 7.4 0.0009 mg/L 0.00037 0.0009 mg/L 0.00037 39.37%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 1.9 0.0001 mg/L 0.00008 0.0001 mg/L 0.00008 88.42%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 29.6 0.0013 mg/L 0.00021 0.0013 mg/L 0.00021 16.47%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 10.6 0.0010 mg/L 0.00263 0.0010 mg/L 0.00263 261.23%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† -12.2 -0.0003 mg/L 0.00018 -0.0003 mg/L 0.00018 55.78%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 21.6 0.0019 mg/L 0.00022 0.0019 mg/L 0.00022 11.60%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 4.7 0.0008 mg/L 0.00026 0.0008 mg/L 0.00026 31.67%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 0.2 0.0001 mg/L 0.00193 0.0001 mg/L 0.00193 >999.9%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† -0.1 -0.0000 mg/L 0.00034 -0.0000 mg/L 0.00034 >999.9%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -11.3 -0.0007 mg/L 0.00012 -0.0007 mg/L 0.00012 18.50%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -93.0 -0.0086 mg/L 0.00395 -0.0086 mg/L 0.00395 46.07%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 258.2 0.0013 mg/L 0.00039 0.0013 mg/L 0.00039 30.57%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 28.6 0.0004 mg/L 0.00005 0.0004 mg/L 0.00005 12.07%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 2.7 0.0000 mg/L 0.00013 0.0000 mg/L 0.00013 >999.9%
 All analyte(s) passed QC.

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 60

Sample ID: 24D0735-16

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 75

Date Collected: 4/16/2024 4:24:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-16

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4740095.0	99.62 %		2.362			2.37%
Y radial	188771.9	107.5 %		1.01			0.94%
Ag 328.068†	412.3	0.0014 mg/L		0.00023	0.0014 mg/L	0.00023	16.20%
Al 396.153†	-3.0	-0.0009 mg/L		0.00307	-0.0009 mg/L	0.00307	345.69%
As 188.979†	-11.6	-0.0036 mg/L		0.00112	-0.0036 mg/L	0.00112	31.06%
B 208.889†	-180.1	-0.0109 mg/L		0.00146	-0.0109 mg/L	0.00146	13.41%
Ba 233.527†	3629.2	0.0232 mg/L		0.00058	0.0232 mg/L	0.00058	2.50%
Be 313.107†	-43.8	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	18.72%
Ca 317.933†	121779.2	18.96 mg/L		0.164	18.96 mg/L	0.164	0.87%
Cd 228.802†	504.6	0.0050 mg/L		0.00021	0.0050 mg/L	0.00021	4.19%
Co 228.616†	408.1	0.0044 mg/L		0.00010	0.0044 mg/L	0.00010	2.21%
Cr 267.716†	251.6	0.0019 mg/L		0.00010	0.0019 mg/L	0.00010	5.02%
Cu 327.393†	201.1	0.0013 mg/L		0.00015	0.0013 mg/L	0.00015	11.95%
Fe 238.204†	96.5	0.0446 mg/L		0.00241	0.0446 mg/L	0.00241	5.40%
K 766.490†	5889.8	1.963 mg/L		0.0320	1.963 mg/L	0.0320	1.63%
Mg 285.213†	21718.8	2.753 mg/L		0.0514	2.753 mg/L	0.0514	1.87%
Mn 257.610†	11731.3	0.5182 mg/L		0.00695	0.5182 mg/L	0.00695	1.34%
Mo 202.031†	25.0	0.0011 mg/L		0.00021	0.0011 mg/L	0.00021	19.21%
Na 589.592†	307862.9	29.34 mg/L		0.339	29.34 mg/L	0.339	1.15%
Ni 231.604†	70.6	0.0020 mg/L		0.00024	0.0020 mg/L	0.00024	12.25%
Pb 220.353†	24.0	0.0021 mg/L		0.00059	0.0021 mg/L	0.00059	28.31%
Sb 206.836†	12.4	0.0021 mg/L		0.00021	0.0021 mg/L	0.00021	10.07%
Se 196.026†	8.6	0.0023 mg/L		0.00207	0.0023 mg/L	0.00207	88.18%
Sn 189.927†	-151.4	-0.0193 mg/L		0.00075	-0.0193 mg/L	0.00075	3.87%
Ti 337.279†	-13.4	-0.0008 mg/L		0.00053	-0.0008 mg/L	0.00053	68.34%
Tl 351.924†	-88.7	-0.0082 mg/L		0.00977	-0.0082 mg/L	0.00977	119.82%

V 290.880†	611.1	0.0030 mg/L	0.00084	0.0030 mg/L	0.00084	27.74%
Zn 206.200†	2845.0	0.0410 mg/L	0.00116	0.0410 mg/L	0.00116	2.83%
Zr 343.823†	196.0	0.0005 mg/L	0.00013	0.0005 mg/L	0.00013	26.22%

Sequence No.: 61
Sample ID: 24D0735-17
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 76
Date Collected: 4/16/2024 4:30:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-17

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4653364.1	97.80 %		0.300			0.31%
Y radial	189543.0	107.9 %		1.19			1.10%
Ag 328.068†	373.1	0.0014 mg/L		0.00018	0.0014 mg/L	0.00018	13.02%
Al 396.153†	4.3	0.0011 mg/L		0.00022	0.0011 mg/L	0.00022	19.52%
As 188.979†	-16.6	-0.0050 mg/L		0.00098	-0.0050 mg/L	0.00098	19.65%
B 208.889†	-227.8	-0.0137 mg/L		0.00048	-0.0137 mg/L	0.00048	3.52%
Ba 233.527†	5191.0	0.0332 mg/L		0.00011	0.0332 mg/L	0.00011	0.34%
Be 313.107†	-47.5	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	22.07%
Ca 317.933†	209814.0	32.67 mg/L		0.150	32.67 mg/L	0.150	0.46%
Cd 228.802†	49915.6	0.4845 mg/L		0.00280	0.4845 mg/L	0.00280	0.58%
Co 228.616†	115.1	0.0012 mg/L		0.00010	0.0012 mg/L	0.00010	7.92%
Cr 267.716†	112.7	0.0011 mg/L		0.00009	0.0011 mg/L	0.00009	8.66%
Cu 327.393†	411.6	0.0026 mg/L		0.00020	0.0026 mg/L	0.00020	7.59%
Fe 238.204†	226.1	0.1045 mg/L		0.00094	0.1045 mg/L	0.00094	0.90%
K 766.490†	11026.4	3.675 mg/L		0.0398	3.675 mg/L	0.0398	1.08%
Mg 285.213†	40264.9	5.105 mg/L		0.0479	5.105 mg/L	0.0479	0.94%
Mn 257.610†	1041.2	0.0460 mg/L		0.00050	0.0460 mg/L	0.00050	1.10%
Mo 202.031†	23.2	0.0010 mg/L		0.00009	0.0010 mg/L	0.00009	9.41%
Na 589.592†	608716.1	58.00 mg/L		0.119	58.00 mg/L	0.119	0.20%
Ni 231.604†	86.3	0.0024 mg/L		0.00017	0.0024 mg/L	0.00017	7.23%
Pb 220.353†	19.8	0.0017 mg/L		0.00094	0.0017 mg/L	0.00094	53.95%
Sb 206.836†	19.5	0.0033 mg/L		0.00093	0.0033 mg/L	0.00093	28.15%
Se 196.026†	6.3	-0.0008 mg/L		0.00250	-0.0008 mg/L	0.00250	332.14%
Sn 189.927†	-214.8	-0.0274 mg/L		0.00056	-0.0274 mg/L	0.00056	2.05%
Ti 337.279†	-14.0	-0.0008 mg/L		0.00040	-0.0008 mg/L	0.00040	49.06%
Tl 351.924†	-137.8	-0.0126 mg/L		0.00524	-0.0126 mg/L	0.00524	41.43%
V 290.880†	539.4	0.0027 mg/L		0.00022	0.0027 mg/L	0.00022	8.10%
Zn 206.200†	1044.1	0.0110 mg/L		0.00024	0.0110 mg/L	0.00024	2.15%
Zr 343.823†	181.2	0.0005 mg/L		0.00009	0.0005 mg/L	0.00009	20.11%

Sequence No.: 62
Sample ID: 24D1221-01
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 77
Date Collected: 4/16/2024 4:35:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1221-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	6723419.2	141.3 %		0.82			0.58%
Y radial	267394.2	152.2 %		0.77			0.51%
Internal Standard Check greater than the upper limit for Y radial. Recovery = 152.2%							
Ag 328.068†	-4528.7	-0.0115 mg/L		0.00018	-0.0115 mg/L	0.00018	1.54%
Al 396.153†	611515.4	170.0 mg/L		2.52	170.0 mg/L	2.52	1.48%
As 188.979†	-343.3	0.1177 mg/L		0.00246	0.1177 mg/L	0.00246	2.09%
B 208.889†	-917.4	-0.0554 mg/L		0.00017	-0.0554 mg/L	0.00017	0.31%
Ba 233.527†	181459.8	1.130 mg/L		0.0027	1.130 mg/L	0.0027	0.24%
Be 313.107†	13379.3	0.0312 mg/L		0.00004	0.0312 mg/L	0.00004	0.14%
Ca 317.933†	243824.4	37.97 mg/L		0.060	37.97 mg/L	0.060	0.16%
Cd 228.802†	331.2	0.0059 mg/L		0.00005	0.0059 mg/L	0.00005	0.83%
Co 228.616†	13431.9	0.1098 mg/L		0.00072	0.1098 mg/L	0.00072	0.66%

SEE RR @2X NDC
4/17/24

Cr 267.716†	20177.5	0.1697 mg/L	0.00087	0.1697 mg/L	0.00087	0.51%
Cu 327.393†	51952.0	0.3284 mg/L	0.02384	0.3284 mg/L	0.02384	7.26%
Fe 238.204†	531753.0	245.7 mg/L	2.43	245.7 mg/L	2.43	0.99%
K 766.490†	109313.1	36.43 mg/L	0.031	36.43 mg/L	0.031	0.08%
Mg 285.213†	860176.2	109.5 mg/L	1.46	109.5 mg/L	1.46	1.34%
Mn 257.610†	120243.6	5.330 mg/L	0.0130	5.330 mg/L	0.0130	0.24%
Mo 202.031†	155.8	0.0068 mg/L	0.00019	0.0068 mg/L	0.00019	2.78%
Na 589.592†	36514.4	3.479 mg/L	0.0024	3.479 mg/L	0.0024	0.07%
Ni 231.604†	6843.2	0.1897 mg/L	0.00112	0.1897 mg/L	0.00112	0.59%
Pb 220.353†	1263.6	0.1199 mg/L	0.00076	0.1199 mg/L	0.00076	0.63%
Sb 206.836†	-71.8	-0.0036 mg/L	0.00233	-0.0036 mg/L	0.00233	64.29%
Se 196.026†	-10.0	-0.0247 mg/L	0.00464	-0.0247 mg/L	0.00464	18.75%
Sn 189.927†	-231.3	-0.0295 mg/L	0.00018	-0.0295 mg/L	0.00018	0.62%
Ti 337.279†	280375.5	16.30 mg/L	0.012	16.30 mg/L	0.012	0.08%
Tl 351.924†	-1382.9	-0.0252 mg/L	0.00178	-0.0252 mg/L	0.00178	7.07%
V 290.880†	87384.3	0.4208 mg/L	0.00121	0.4208 mg/L	0.00121	0.29%
Zn 206.200†	181536.0	2.758 mg/L	0.0036	2.758 mg/L	0.0036	0.13%
Zr 343.823†	24147.7	0.0550 mg/L	0.00028	0.0550 mg/L	0.00028	0.51%

Internal Standard Check failed. Continue with analysis.

SEE RR @2X NDC

4/17/24

Sequence No.: 63

Sample ID: 24D1221-01@2X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 78

Date Collected: 4/16/2024 4:40:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1221-01@2X

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5748914.3	120.8 %		0.86			0.71%
Y radial	231038.3	131.5 %		0.61			0.47%
Ag 328.068†	-2806.9	-0.0070 mg/L		0.00043	-0.0070 mg/L	0.00043	6.14%
Al 396.153†	369326.6	102.7 mg/L		0.72	102.7 mg/L	0.72	0.70%
As 188.979†	-224.7	0.0695 mg/L		0.00124	0.0695 mg/L	0.00124	1.79%
B 208.889†	-857.3	-0.0516 mg/L		0.00044	-0.0516 mg/L	0.00044	0.85%
Ba 233.527†	113176.8	0.7046 mg/L		0.00276	0.7046 mg/L	0.00276	0.39%
Be 313.107†	8251.6	0.0192 mg/L		0.00039	0.0192 mg/L	0.00039	2.02%
Ca 317.933†	150018.6	23.36 mg/L		0.085	23.36 mg/L	0.085	0.36%
Cd 228.802†	209.8	0.0039 mg/L		0.00018	0.0039 mg/L	0.00018	4.54%
Co 228.616†	8594.5	0.0711 mg/L		0.00016	0.0711 mg/L	0.00016	0.22%
Cr 267.716†	12469.7	0.1049 mg/L		0.00071	0.1049 mg/L	0.00071	0.68%
Cu 327.393†	28553.6	0.1805 mg/L		0.00417	0.1805 mg/L	0.00417	2.31%
Fe 238.204†	339863.8	157.1 mg/L		0.57	157.1 mg/L	0.57	0.36%
K 766.490†	68119.4	22.70 mg/L		0.153	22.70 mg/L	0.153	0.68%
Mg 285.213†	535482.3	68.14 mg/L		0.366	68.14 mg/L	0.366	0.54%
Mn 257.610†	74642.1	3.309 mg/L		0.0444	3.309 mg/L	0.0444	1.34%
Mo 202.031†	87.1	0.0038 mg/L		0.00021	0.0038 mg/L	0.00021	5.58%
Na 589.592†	22297.7	2.125 mg/L		0.0367	2.125 mg/L	0.0367	1.73%
Ni 231.604†	4354.7	0.1207 mg/L		0.00035	0.1207 mg/L	0.00035	0.29%
Pb 220.353†	818.6	0.0771 mg/L		0.00086	0.0771 mg/L	0.00086	1.12%
Sb 206.836†	-44.3	-0.0020 mg/L		0.00054	-0.0020 mg/L	0.00054	26.15%
Se 196.026†	6.6	-0.0078 mg/L		0.00146	-0.0078 mg/L	0.00146	18.74%
Sn 189.927†	-236.6	-0.0302 mg/L		0.00067	-0.0302 mg/L	0.00067	2.23%
Ti 337.279†	172356.3	10.02 mg/L		0.061	10.02 mg/L	0.061	0.61%
Tl 351.924†	-869.5	-0.0134 mg/L		0.00451	-0.0134 mg/L	0.00451	33.76%
V 290.880†	53931.5	0.2593 mg/L		0.00142	0.2593 mg/L	0.00142	0.55%
Zn 206.200†	114679.1	1.742 mg/L		0.0083	1.742 mg/L	0.0083	0.48%
Zr 343.823†	14424.9	0.0326 mg/L		0.00015	0.0326 mg/L	0.00015	0.45%

Sequence No.: 64

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/16/2024 4:45:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4771337.8	100.3	%	1.15			1.15%
Y radial	192511.9	109.6	%	1.18			1.08%
Ag 328.068†	369.3	0.0014	mg/L	0.00023	0.0014 mg/L	0.00023	16.68%
Al 396.153†	7.4	0.0020	mg/L	0.00778	0.0020 mg/L	0.00778	379.68%
As 188.979†	-4.6	-0.0015	mg/L	0.00099	-0.0015 mg/L	0.00099	64.42%
B 208.889†	-767.1	-0.0460	mg/L	0.00032	-0.0460 mg/L	0.00032	0.70%
Ba 233.527†	20.1	0.0001	mg/L	0.00004	0.0001 mg/L	0.00004	31.18%
Be 313.107†	-53.4	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	16.67%
Ca 317.933†	0.2	0.0000	mg/L	0.00584	0.0000 mg/L	0.00584	>999.9%
Cd 228.802†	2.8	0.0001	mg/L	0.00012	0.0001 mg/L	0.00012	191.86%
Co 228.616†	1.7	0.0000	mg/L	0.00007	0.0000 mg/L	0.00007	387.95%
Cr 267.716†	-20.6	-0.0002	mg/L	0.00004	-0.0002 mg/L	0.00004	21.41%
Cu 327.393†	-168.8	-0.0011	mg/L	0.00015	-0.0011 mg/L	0.00015	14.34%
Fe 238.204†	30.6	0.0142	mg/L	0.00234	0.0142 mg/L	0.00234	16.55%
K 766.490†	-44.2	-0.0147	mg/L	0.01521	-0.0147 mg/L	0.01521	103.30%
Mg 285.213†	33.3	0.0042	mg/L	0.00077	0.0042 mg/L	0.00077	18.23%
Mn 257.610†	8.1	0.0004	mg/L	0.00012	0.0004 mg/L	0.00012	32.21%
Mo 202.031†	5.6	0.0002	mg/L	0.00021	0.0002 mg/L	0.00021	86.86%
Na 589.592†	-22.7	-0.0022	mg/L	0.00381	-0.0022 mg/L	0.00381	175.92%
Ni 231.604†	-9.5	-0.0003	mg/L	0.00006	-0.0003 mg/L	0.00006	23.23%
Pb 220.353†	0.5	0.0000	mg/L	0.00066	0.0000 mg/L	0.00066	>999.9%
Sb 206.836†	3.6	0.0007	mg/L	0.00065	0.0007 mg/L	0.00065	100.20%
Se 196.026†	-2.7	-0.0016	mg/L	0.00189	-0.0016 mg/L	0.00189	119.40%
Sn 189.927†	-2.1	-0.0003	mg/L	0.00040	-0.0003 mg/L	0.00040	148.42%
Ti 337.279†	-2.6	-0.0001	mg/L	0.00048	-0.0001 mg/L	0.00048	320.35%
Tl 351.924†	-61.1	-0.0056	mg/L	0.00387	-0.0056 mg/L	0.00387	68.68%
V 290.880†	502.5	0.0025	mg/L	0.00008	0.0025 mg/L	0.00008	3.39%
Zn 206.200†	14.1	0.0002	mg/L	0.00012	0.0002 mg/L	0.00012	57.98%
Zr 343.823†	-28.4	-0.0001	mg/L	0.00010	-0.0001 mg/L	0.00010	132.09%

Sequence No.: 65

Sample ID: B371351-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 79

Date Collected: 4/16/2024 4:50:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4786993.4	100.6	%	0.14			0.14%
Y radial	188899.6	107.5	%	1.40			1.30%
Ag 328.068†	399.4	0.0015	mg/L	0.00008	0.0015 mg/L	0.00008	5.13%
Al 396.153†	-11.3	-0.0032	mg/L	0.00459	-0.0032 mg/L	0.00459	145.68%
As 188.979†	-4.4	-0.0015	mg/L	0.00053	-0.0015 mg/L	0.00053	35.11%
B 208.889†	-775.0	-0.0465	mg/L	0.00012	-0.0465 mg/L	0.00012	0.26%
Ba 233.527†	8.6	0.0001	mg/L	0.00002	0.0001 mg/L	0.00002	39.56%
Be 313.107†	-55.0	-0.0001	mg/L	0.00000	-0.0001 mg/L	0.00000	2.44%
Ca 317.933†	150.6	0.0235	mg/L	0.00384	0.0235 mg/L	0.00384	16.38%
Cd 228.802†	-2.7	0.0000	mg/L	0.00006	0.0000 mg/L	0.00006	802.08%
Co 228.616†	13.2	0.0001	mg/L	0.00005	0.0001 mg/L	0.00005	36.03%
Cr 267.716†	-12.9	-0.0001	mg/L	0.00005	-0.0001 mg/L	0.00005	45.94%
Cu 327.393†	-67.4	-0.0004	mg/L	0.00013	-0.0004 mg/L	0.00013	30.37%
Fe 238.204†	17.3	0.0080	mg/L	0.00052	0.0080 mg/L	0.00052	6.57%
K 766.490†	-165.9	-0.0553	mg/L	0.02237	-0.0553 mg/L	0.02237	40.46%
Mg 285.213†	18.5	0.0023	mg/L	0.00036	0.0023 mg/L	0.00036	15.38%
Mn 257.610†	6.2	0.0003	mg/L	0.00007	0.0003 mg/L	0.00007	26.87%
Mo 202.031†	2.6	0.0001	mg/L	0.00007	0.0001 mg/L	0.00007	60.81%
Na 589.592†	15.2	0.0014	mg/L	0.00117	0.0014 mg/L	0.00117	80.73%
Ni 231.604†	-12.6	-0.0003	mg/L	0.00013	-0.0003 mg/L	0.00013	37.65%
Pb 220.353†	8.4	0.0007	mg/L	0.00077	0.0007 mg/L	0.00077	103.40%
Sb 206.836†	4.2	0.0008	mg/L	0.00061	0.0008 mg/L	0.00061	80.60%
Se 196.026†	1.3	0.0008	mg/L	0.00285	0.0008 mg/L	0.00285	371.78%
Sn 189.927†	2.4	0.0003	mg/L	0.00051	0.0003 mg/L	0.00051	167.81%

Ti 337.279†	-12.7	-0.0007 mg/L	0.00039	-0.0007 mg/L	0.00039	52.28%
Tl 351.924†	-100.0	-0.0092 mg/L	0.00678	-0.0092 mg/L	0.00678	73.62%
V 290.880†	313.0	0.0015 mg/L	0.00041	0.0015 mg/L	0.00041	26.45%
Zn 206.200†	36.4	0.0005 mg/L	0.00005	0.0005 mg/L	0.00005	8.93%
Zr 343.823†	-40.2	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	104.82%

Sequence No.: 66

Sample ID: B371351-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 80

Date Collected: 4/16/2024 4:56:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4749867.1	99.83	%	0.822				0.82%
Y radial	187737.1	106.9	%	0.79				0.74%
Ag 328.068†	141827.7	0.5313	mg/L	0.00701	0.5313	mg/L	0.00701	1.32%
Al 396.153†	1818.4	0.4859	mg/L	0.01280	0.4859	mg/L	0.01280	2.64%
As 188.979†	1420.3	0.4872	mg/L	0.00585	0.4872	mg/L	0.00585	1.20%
B 208.889†	15718.2	0.9175	mg/L	0.01476	0.9175	mg/L	0.01476	1.61%
Ba 233.527†	80922.8	0.5188	mg/L	0.00655	0.5188	mg/L	0.00655	1.26%
Be 313.107†	208507.3	0.5154	mg/L	0.00768	0.5154	mg/L	0.00768	1.49%
Ca 317.933†	25589.4	3.985	mg/L	0.0410	3.985	mg/L	0.0410	1.03%
Cd 228.802†	53648.5	0.5119	mg/L	0.00683	0.5119	mg/L	0.00683	1.33%
Co 228.616†	47586.8	0.5131	mg/L	0.00572	0.5131	mg/L	0.00572	1.11%
Cr 267.716†	59856.3	0.5098	mg/L	0.00585	0.5098	mg/L	0.00585	1.15%
Cu 327.393†	157557.4	0.9952	mg/L	0.01795	0.9952	mg/L	0.01795	1.80%
Fe 238.204†	8785.8	4.063	mg/L	0.0436	4.063	mg/L	0.0436	1.07%
K 766.490†	11784.4	3.927	mg/L	0.0513	3.927	mg/L	0.0513	1.31%
Mg 285.213†	32102.1	4.080	mg/L	0.0351	4.080	mg/L	0.0351	0.86%
Mn 257.610†	11575.4	0.5116	mg/L	0.00350	0.5116	mg/L	0.00350	0.68%
Mo 202.031†	11535.7	0.4997	mg/L	0.00414	0.4997	mg/L	0.00414	0.83%
Na 589.592†	39938.6	3.806	mg/L	0.0284	3.806	mg/L	0.0284	0.75%
Ni 231.604†	18593.2	0.5151	mg/L	0.00678	0.5151	mg/L	0.00678	1.32%
Pb 220.353†	5765.4	0.5099	mg/L	0.00471	0.5099	mg/L	0.00471	0.92%
Sb 206.836†	2894.7	0.5083	mg/L	0.00474	0.5083	mg/L	0.00474	0.93%
Se 196.026†	898.9	0.5203	mg/L	0.00461	0.5203	mg/L	0.00461	0.89%
Sn 189.927†	3898.9	0.4968	mg/L	0.00522	0.4968	mg/L	0.00522	1.05%
Ti 337.279†	8717.6	0.5069	mg/L	0.00353	0.5069	mg/L	0.00353	0.70%
Tl 351.924†	5370.8	0.4938	mg/L	0.00527	0.4938	mg/L	0.00527	1.07%
V 290.880†	103889.7	0.5133	mg/L	0.00617	0.5133	mg/L	0.00617	1.20%
Zn 206.200†	66732.6	1.020	mg/L	0.0099	1.020	mg/L	0.0099	0.97%
Zr 343.823†	1108.4	0.0027	mg/L	0.00052	0.0027	mg/L	0.00052	19.29%

Sequence No.: 67

Sample ID: B371351-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 81

Date Collected: 4/16/2024 5:00:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4759397.0	100.0	%	0.28				0.28%
Y radial	188894.1	107.5	%	1.16				1.08%
Ag 328.068†	140504.2	0.5264	mg/L	0.00042	0.5264	mg/L	0.00042	0.08%
Al 396.153†	1839.5	0.4918	mg/L	0.00442	0.4918	mg/L	0.00442	0.90%
As 188.979†	1404.8	0.4818	mg/L	0.00152	0.4818	mg/L	0.00152	0.32%
B 208.889†	15634.2	0.9126	mg/L	0.00081	0.9126	mg/L	0.00081	0.09%
Ba 233.527†	80488.9	0.5160	mg/L	0.00127	0.5160	mg/L	0.00127	0.25%
Be 313.107†	207111.1	0.5119	mg/L	0.00648	0.5119	mg/L	0.00648	1.27%
Ca 317.933†	25445.8	3.962	mg/L	0.0222	3.962	mg/L	0.0222	0.56%
Cd 228.802†	53223.0	0.5079	mg/L	0.00097	0.5079	mg/L	0.00097	0.19%

Co 228.616†	47303.7	0.5100 mg/L	0.00088	0.5100 mg/L	0.00088	0.17%
Cr 267.716†	59526.3	0.5070 mg/L	0.00131	0.5070 mg/L	0.00131	0.26%
Cu 327.393†	155225.8	0.9804 mg/L	0.00219	0.9804 mg/L	0.00219	0.22%
Fe 238.204†	8772.1	4.056 mg/L	0.0005	4.056 mg/L	0.0005	0.01%
K 766.490†	11683.6	3.894 mg/L	0.0052	3.894 mg/L	0.0052	0.13%
Mg 285.213†	32053.2	4.074 mg/L	0.0047	4.074 mg/L	0.0047	0.11%
Mn 257.610†	11494.9	0.5080 mg/L	0.00306	0.5080 mg/L	0.00306	0.60%
Mo 202.031†	11486.3	0.4976 mg/L	0.00114	0.4976 mg/L	0.00114	0.23%
Na 589.592†	38773.2	3.695 mg/L	0.0035	3.695 mg/L	0.0035	0.09%
Ni 231.604†	18398.8	0.5097 mg/L	0.00208	0.5097 mg/L	0.00208	0.41%
Pb 220.353†	5711.1	0.5051 mg/L	0.00266	0.5051 mg/L	0.00266	0.53%
Sb 206.836†	2860.8	0.5023 mg/L	0.00045	0.5023 mg/L	0.00045	0.09%
Se 196.026†	881.2	0.5101 mg/L	0.00268	0.5101 mg/L	0.00268	0.52%
Sn 189.927†	3867.8	0.4928 mg/L	0.00121	0.4928 mg/L	0.00121	0.25%
Ti 337.279†	8674.3	0.5044 mg/L	0.00158	0.5044 mg/L	0.00158	0.31%
Tl 351.924†	5367.8	0.4935 mg/L	0.00372	0.4935 mg/L	0.00372	0.75%
V 290.880†	102810.7	0.5079 mg/L	0.00109	0.5079 mg/L	0.00109	0.21%
Zn 206.200†	66549.3	1.017 mg/L	0.0035	1.017 mg/L	0.0035	0.35%
Zr 343.823†	516.6	0.0012 mg/L	0.00013	0.0012 mg/L	0.00013	10.85%

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 5:05:01 PM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/16/2024 5:05:02 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/16/2024 5:06:47 PM

Plasma On Time: 4/16/2024 7:24:59 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0416A24.sif

Batch ID: Optima 2

Results Data Set: 0416A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 68

Autosampler Location: 82

Sample ID: B371351-MS1

Date Collected: 4/16/2024 5:06:47 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: B371351-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4665217.8	98.05 %	0.349			0.36%
Y radial	186494.2	106.2 %	0.87			0.82%
Ag 328.068†	139209.9	0.5216 mg/L	0.00047	0.5216 mg/L	0.00047	0.09%
Al 396.153†	2204.8	0.5934 mg/L	0.01545	0.5934 mg/L	0.01545	2.60%
As 188.979†	1408.9	0.4835 mg/L	0.00318	0.4835 mg/L	0.00318	0.66%
B 208.889†	16452.8	0.9617 mg/L	0.00144	0.9617 mg/L	0.00144	0.15%
Ba 233.527†	83260.0	0.5337 mg/L	0.00125	0.5337 mg/L	0.00125	0.23%
Be 313.107†	204181.5	0.5047 mg/L	0.00596	0.5047 mg/L	0.00596	1.18%
Ca 317.933†	87332.2	13.60 mg/L	0.091	13.60 mg/L	0.091	0.67%
Cd 228.802†	52790.5	0.5036 mg/L	0.00070	0.5036 mg/L	0.00070	0.14%
Co 228.616†	46182.0	0.4980 mg/L	0.00183	0.4980 mg/L	0.00183	0.37%
Cr 267.716†	59690.2	0.5084 mg/L	0.00059	0.5084 mg/L	0.00059	0.12%
Cu 327.393†	155521.2	0.9823 mg/L	0.00130	0.9823 mg/L	0.00130	0.13%
Fe 238.204†	9152.5	4.232 mg/L	0.0421	4.232 mg/L	0.0421	0.99%
K 766.490†	14849.7	4.949 mg/L	0.0306	4.949 mg/L	0.0306	0.62%
Mg 285.213†	64066.0	8.138 mg/L	0.0485	8.138 mg/L	0.0485	0.60%
Mn 257.610†	11565.5	0.5112 mg/L	0.00354	0.5112 mg/L	0.00354	0.69%
Mo 202.031†	11450.8	0.4961 mg/L	0.00296	0.4961 mg/L	0.00296	0.60%
Na 589.592†	105016.4	10.01 mg/L	0.112	10.01 mg/L	0.112	1.11%
Ni 231.604†	18047.6	0.5000 mg/L	0.00071	0.5000 mg/L	0.00071	0.14%
Pb 220.353†	5654.3	0.5001 mg/L	0.00193	0.5001 mg/L	0.00193	0.39%
Sb 206.836†	2895.0	0.5084 mg/L	0.00466	0.5084 mg/L	0.00466	0.92%
Se 196.026†	887.6	0.5120 mg/L	0.00448	0.5120 mg/L	0.00448	0.87%
Sn 189.927†	3862.3	0.4921 mg/L	0.00262	0.4921 mg/L	0.00262	0.53%

Ti 337.279†	8666.9	0.5040 mg/L	0.00379	0.5040 mg/L	0.00379	0.75%
Tl 351.924†	5354.9	0.4925 mg/L	0.00691	0.4925 mg/L	0.00691	1.40%
V 290.880†	102864.9	0.5082 mg/L	0.00063	0.5082 mg/L	0.00063	0.12%
Zn 206.200†	65620.9	1.003 mg/L	0.0039	1.003 mg/L	0.0039	0.39%
Zr 343.823†	484.1	0.0011 mg/L	0.00010	0.0011 mg/L	0.00010	9.18%

Sequence No.: 69

Sample ID: B371351-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 83

Date Collected: 4/16/2024 5:11:26 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-MSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4734113.9	99.50	%	1.008				1.01%
Y radial	185297.1	105.5	%	0.88				0.84%
Ag 328.068†	138557.1	0.5191	mg/L	0.00419	0.5191	mg/L	0.00419	0.81%
Al 396.153†	2201.9	0.5927	mg/L	0.01394	0.5927	mg/L	0.01394	2.35%
As 188.979†	1412.2	0.4847	mg/L	0.00730	0.4847	mg/L	0.00730	1.51%
B 208.889†	16406.9	0.9590	mg/L	0.00479	0.9590	mg/L	0.00479	0.50%
Ba 233.527†	83297.7	0.5340	mg/L	0.00480	0.5340	mg/L	0.00480	0.90%
Be 313.107†	210118.9	0.5194	mg/L	0.01018	0.5194	mg/L	0.01018	1.96%
Ca 317.933†	88430.6	13.77	mg/L	0.131	13.77	mg/L	0.131	0.95%
Cd 228.802†	52606.4	0.5018	mg/L	0.00427	0.5018	mg/L	0.00427	0.85%
Co 228.616†	46093.9	0.4970	mg/L	0.00363	0.4970	mg/L	0.00363	0.73%
Cr 267.716†	59514.1	0.5069	mg/L	0.00527	0.5069	mg/L	0.00527	1.04%
Cu 327.393†	154553.6	0.9762	mg/L	0.00787	0.9762	mg/L	0.00787	0.81%
Fe 238.204†	9224.3	4.265	mg/L	0.0447	4.265	mg/L	0.0447	1.05%
K 766.490†	15224.0	5.074	mg/L	0.0566	5.074	mg/L	0.0566	1.12%
Mg 285.213†	64608.9	8.207	mg/L	0.0739	8.207	mg/L	0.0739	0.90%
Mn 257.610†	11651.9	0.5150	mg/L	0.00492	0.5150	mg/L	0.00492	0.96%
Mo 202.031†	11421.8	0.4948	mg/L	0.00540	0.4948	mg/L	0.00540	1.09%
Na 589.592†	110161.0	10.50	mg/L	0.209	10.50	mg/L	0.209	1.99%
Ni 231.604†	18032.1	0.4995	mg/L	0.00403	0.4995	mg/L	0.00403	0.81%
Pb 220.353†	5615.8	0.4967	mg/L	0.00461	0.4967	mg/L	0.00461	0.93%
Sb 206.836†	2873.9	0.5046	mg/L	0.00493	0.5046	mg/L	0.00493	0.98%
Se 196.026†	887.1	0.5117	mg/L	0.00638	0.5117	mg/L	0.00638	1.25%
Sn 189.927†	3835.9	0.4887	mg/L	0.00655	0.4887	mg/L	0.00655	1.34%
Ti 337.279†	8777.0	0.5104	mg/L	0.00435	0.5104	mg/L	0.00435	0.85%
Tl 351.924†	5309.9	0.4883	mg/L	0.00720	0.4883	mg/L	0.00720	1.47%
V 290.880†	102234.2	0.5051	mg/L	0.00497	0.5051	mg/L	0.00497	0.98%
Zn 206.200†	65683.8	1.004	mg/L	0.0112	1.004	mg/L	0.0112	1.12%
Zr 343.823†	385.8	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	3.19%

Sequence No.: 70

Sample ID: B371351-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 84

Date Collected: 4/16/2024 5:16:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4725294.0	99.31	%	2.085				2.10%
Y radial	185808.2	105.8	%	1.65				1.56%
Ag 328.068†	501437.4	1.879	mg/L	0.0358	1.879	mg/L	0.0358	1.90%
Al 396.153†	7477.1	2.004	mg/L	0.0283	2.004	mg/L	0.0283	1.41%
As 188.979†	5419.0	1.859	mg/L	0.0351	1.859	mg/L	0.0351	1.89%
B 208.889†	62943.7	3.679	mg/L	0.0679	3.679	mg/L	0.0679	1.85%
Ba 233.527†	303799.7	1.948	mg/L	0.0436	1.948	mg/L	0.0436	2.24%
Be 313.107†	800499.0	1.979	mg/L	0.0224	1.979	mg/L	0.0224	1.13%
Ca 317.933†	158514.9	24.68	mg/L	0.219	24.68	mg/L	0.219	0.89%
Cd 228.802†	200542.4	1.913	mg/L	0.0403	1.913	mg/L	0.0403	2.11%

Co 228.616†	174376.2	1.880 mg/L	0.0407	1.880 mg/L	0.0407	2.17%
Cr 267.716†	223389.6	1.903 mg/L	0.0439	1.903 mg/L	0.0439	2.31%
Cu 327.393†	598048.6	3.777 mg/L	0.0744	3.777 mg/L	0.0744	1.97%
Fe 238.204†	34236.2	15.83 mg/L	0.144	15.83 mg/L	0.144	0.91%
K 766.490†	49931.4	16.64 mg/L	0.200	16.64 mg/L	0.200	1.20%
Mg 285.213†	154405.0	19.62 mg/L	0.183	19.62 mg/L	0.183	0.93%
Mn 257.610†	44537.3	1.968 mg/L	0.0204	1.968 mg/L	0.0204	1.04%
Mo 202.031†	44044.1	1.908 mg/L	0.0369	1.908 mg/L	0.0369	1.94%
Na 589.592†	233126.8	22.21 mg/L	0.192	22.21 mg/L	0.192	0.86%
Ni 231.604†	67854.0	1.880 mg/L	0.0446	1.880 mg/L	0.0446	2.37%
Pb 220.353†	21304.3	1.884 mg/L	0.0368	1.884 mg/L	0.0368	1.95%
Sb 206.836†	10972.5	1.927 mg/L	0.0402	1.927 mg/L	0.0402	2.09%
Se 196.026†	3379.4	1.954 mg/L	0.0344	1.954 mg/L	0.0344	1.76%
Sn 189.927†	14804.6	1.886 mg/L	0.0353	1.886 mg/L	0.0353	1.87%
Ti 337.279†	33831.2	1.967 mg/L	0.0186	1.967 mg/L	0.0186	0.94%
Tl 351.924†	21454.6	1.973 mg/L	0.0391	1.973 mg/L	0.0391	1.98%
V 290.880†	390026.8	1.927 mg/L	0.0423	1.927 mg/L	0.0423	2.19%
Zn 206.200†	248314.6	3.796 mg/L	0.0969	3.796 mg/L	0.0969	2.55%
Zr 343.823†	949.6	0.0020 mg/L	0.00045	0.0020 mg/L	0.00045	22.45%

Sequence No.: 71

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 5:20:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4677553.8	98.31 %	0.426			0.43%
Y radial	188259.9	107.2 %	1.87			1.74%
Ag 328.068†	648748.0	2.400 mg/L	0.0115	2.400 mg/L	0.0115	0.48%
QC value within limits for Ag 328.068 Recovery = 96.01%						
Al 396.153†	34133.8	9.232 mg/L	0.1356	9.232 mg/L	0.1356	1.47%
QC value within limits for Al 396.153 Recovery = 92.32%						
As 188.979†	14094.0	4.824 mg/L	0.0257	4.824 mg/L	0.0257	0.53%
QC value within limits for As 188.979 Recovery = 96.49%						
B 208.889†	80886.3	4.607 mg/L	0.0099	4.607 mg/L	0.0099	0.21%
QC value within limits for B 208.889 Recovery = 92.14%						
Ba 233.527†	763266.0	4.898 mg/L	0.0099	4.898 mg/L	0.0099	0.20%
QC value within limits for Ba 233.527 Recovery = 97.95%						
Be 313.107†	1947429.8	4.813 mg/L	0.1254	4.813 mg/L	0.1254	2.61%
QC value within limits for Be 313.107 Recovery = 96.27%						
Ca 317.933†	60487.8	9.419 mg/L	0.1689	9.419 mg/L	0.1689	1.79%
QC value within limits for Ca 317.933 Recovery = 94.19%						
Cd 228.802†	506943.7	4.832 mg/L	0.0053	4.832 mg/L	0.0053	0.11%
QC value within limits for Cd 228.802 Recovery = 96.64%						
Co 228.616†	453709.9	4.892 mg/L	0.0098	4.892 mg/L	0.0098	0.20%
QC value within limits for Co 228.616 Recovery = 97.85%						
Cr 267.716†	568747.3	4.845 mg/L	0.0082	4.845 mg/L	0.0082	0.17%
QC value within limits for Cr 267.716 Recovery = 96.89%						
Cu 327.393†	766784.3	4.860 mg/L	0.0058	4.860 mg/L	0.0058	0.12%
QC value within limits for Cu 327.393 Recovery = 97.21%						
Fe 238.204†	10422.4	4.842 mg/L	0.0748	4.842 mg/L	0.0748	1.55%
QC value within limits for Fe 238.204 Recovery = 96.84%						
K 766.490†	29012.2	9.669 mg/L	0.1344	9.669 mg/L	0.1344	1.39%
QC value within limits for K 766.490 Recovery = 96.69%						
Mg 285.213†	75819.9	9.607 mg/L	0.1372	9.607 mg/L	0.1372	1.43%
QC value within limits for Mg 285.213 Recovery = 96.07%						
Mn 257.610†	109964.6	4.857 mg/L	0.0763	4.857 mg/L	0.0763	1.57%
QC value within limits for Mn 257.610 Recovery = 97.15%						
Mo 202.031†	111911.1	4.848 mg/L	0.0051	4.848 mg/L	0.0051	0.11%
QC value within limits for Mo 202.031 Recovery = 96.96%						
Na 589.592†	100997.9	9.624 mg/L	0.2705	9.624 mg/L	0.2705	2.81%
QC value within limits for Na 589.592 Recovery = 96.24%						
Ni 231.604†	176284.2	4.885 mg/L	0.0056	4.885 mg/L	0.0056	0.11%
QC value within limits for Ni 231.604 Recovery = 97.70%						

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Pb 220.353†	54604.6	4.841 mg/L	0.0174	4.841 mg/L	0.0174	0.36%
QC value within limits for Pb 220.353	Recovery = 96.82%					
Sb 206.836†	27263.3	4.789 mg/L	0.0210	4.789 mg/L	0.0210	0.44%
QC value within limits for Sb 206.836	Recovery = 95.79%					
Se 196.026†	8401.8	4.873 mg/L	0.0155	4.873 mg/L	0.0155	0.32%
QC value within limits for Se 196.026	Recovery = 97.45%					
Sn 189.927†	37880.5	4.822 mg/L	0.0164	4.822 mg/L	0.0164	0.34%
QC value within limits for Sn 189.927	Recovery = 96.43%					
Ti 337.279†	82888.7	4.817 mg/L	0.0593	4.817 mg/L	0.0593	1.23%
QC value within limits for Ti 337.279	Recovery = 96.35%					
Tl 351.924†	26445.2	2.397 mg/L	0.0175	2.397 mg/L	0.0175	0.73%
QC value within limits for Tl 351.924	Recovery = 95.90%					
V 290.880†	985741.1	4.872 mg/L	0.0106	4.872 mg/L	0.0106	0.22%
QC value within limits for V 290.880	Recovery = 97.45%					
Zn 206.200†	317377.4	4.874 mg/L	0.0129	4.874 mg/L	0.0129	0.26%
QC value within limits for Zn 206.200	Recovery = 97.49%					
Zr 343.823†	1916689.6	4.831 mg/L	0.0091	4.831 mg/L	0.0091	0.19%
All analyte(s) passed QC.						

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By NC at 11:01 am, Apr 17, 2024

Sequence No.: 72

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 5:26:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4730229.6	99.42 %	1.633			1.64%
Y radial	188355.4	107.2 %	2.86			2.67%
Ag 328.068†	805.9	0.0030 mg/L	0.00068	0.0030 mg/L	0.00068	22.62%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-22.0	-0.0062 mg/L	0.00702	-0.0062 mg/L	0.00702	113.70%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-1.2	-0.0004 mg/L	0.00126	-0.0004 mg/L	0.00126	299.82%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	-445.3	-0.0268 mg/L	0.00066	-0.0268 mg/L	0.00066	2.45%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	15.6	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	17.09%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	-15.2	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	154.97%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	17.7	0.0028 mg/L	0.00503	0.0028 mg/L	0.00503	182.00%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	7.1	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	82.42%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	5.8	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	114.24%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	-2.9	-0.0000 mg/L	0.00005	-0.0000 mg/L	0.00005	202.77%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-300.4	-0.0019 mg/L	0.00020	-0.0019 mg/L	0.00020	10.36%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	7.0	0.0032 mg/L	0.00254	0.0032 mg/L	0.00254	78.67%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-56.7	-0.0189 mg/L	0.02432	-0.0189 mg/L	0.02432	128.77%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	3.7	0.0005 mg/L	0.00029	0.0005 mg/L	0.00029	60.53%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	-1.1	-0.0000 mg/L	0.00021	-0.0000 mg/L	0.00021	416.18%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	34.4	0.0015 mg/L	0.00008	0.0015 mg/L	0.00008	5.64%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-48.9	-0.0047 mg/L	0.00300	-0.0047 mg/L	0.00300	64.51%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-7.9	-0.0002 mg/L	0.00007	-0.0002 mg/L	0.00007	33.88%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	12.9	0.0012 mg/L	0.00021	0.0012 mg/L	0.00021	17.99%

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QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 3.4 0.0006 mg/L 0.00043 0.0006 mg/L 0.00043 69.97%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 3.5 0.0021 mg/L 0.00169 0.0021 mg/L 0.00169 82.37%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 5.1 0.0007 mg/L 0.00034 0.0007 mg/L 0.00034 51.17%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -5.3 -0.0003 mg/L 0.00035 -0.0003 mg/L 0.00035 114.70%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -73.5 -0.0068 mg/L 0.00802 -0.0068 mg/L 0.00802 118.30%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 564.1 0.0028 mg/L 0.00058 0.0028 mg/L 0.00058 20.92%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 47.5 0.0007 mg/L 0.00007 0.0007 mg/L 0.00007 9.89%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 24.4 0.0001 mg/L 0.00002 0.0001 mg/L 0.00002 29.19%
 All analyte(s) passed QC.

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 73
 Sample ID: B371351-SRL1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 85
 Date Collected: 4/16/2024 5:31:53 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371351-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4877759.9	102.5	%	0.55			0.53%
Y radial	187278.1	106.6	%	1.67			1.57%
Ag 328.068†	432.2	0.0016	mg/L	0.00029	0.0016	0.00029	17.91%
Al 396.153†	64.0	0.0178	mg/L	0.00250	0.0178	0.00250	14.05%
As 188.979†	-4.7	-0.0016	mg/L	0.00071	-0.0016	0.00071	45.78%
B 208.889†	-436.7	-0.0262	mg/L	0.00021	-0.0262	0.00021	0.82%
Ba 233.527†	662.9	0.0042	mg/L	0.00003	0.0042	0.00003	0.61%
Be 313.107†	-26.4	-0.0001	mg/L	0.00005	-0.0001	0.00005	75.47%
Ca 317.933†	12356.0	1.924	mg/L	0.0092	1.924	0.0092	0.48%
Cd 228.802†	-4.8	-0.0000	mg/L	0.00009	-0.0000	0.00009	>999.9%
Co 228.616†	12.6	0.0001	mg/L	0.00006	0.0001	0.00006	43.42%
Cr 267.716†	165.2	0.0014	mg/L	0.00007	0.0014	0.00007	4.92%
Cu 327.393†	-199.6	-0.0013	mg/L	0.00033	-0.0013	0.00033	26.39%
Fe 238.204†	95.4	0.0441	mg/L	0.00056	0.0441	0.00056	1.26%
K 766.490†	525.4	0.1751	mg/L	0.00819	0.1751	0.00819	4.68%
Mg 285.213†	6483.5	0.8231	mg/L	0.00546	0.8231	0.00546	0.66%
Mn 257.610†	26.5	0.0012	mg/L	0.00018	0.0012	0.00018	15.51%
Mo 202.031†	17.7	0.0008	mg/L	0.00021	0.0008	0.00021	27.17%
Na 589.592†	12091.3	1.152	mg/L	0.0056	1.152	0.0056	0.49%
Ni 231.604†	18.7	0.0005	mg/L	0.00013	0.0005	0.00013	24.07%
Pb 220.353†	10.5	0.0009	mg/L	0.00020	0.0009	0.00020	21.78%
Sb 206.836†	3.0	0.0005	mg/L	0.00052	0.0005	0.00052	106.73%
Se 196.026†	5.6	0.0029	mg/L	0.00323	0.0029	0.00323	111.90%
Sn 189.927†	-19.5	-0.0025	mg/L	0.00040	-0.0025	0.00040	16.09%
Ti 337.279†	1.3	0.0001	mg/L	0.00008	0.0001	0.00008	98.26%
Tl 351.924†	-62.2	-0.0057	mg/L	0.00701	-0.0057	0.00701	122.91%
V 290.880†	-18.9	-0.0001	mg/L	0.00027	-0.0001	0.00027	277.22%
Zn 206.200†	66.2	0.0009	mg/L	0.00011	0.0009	0.00011	12.59%
Zr 343.823†	8.8	0.0000	mg/L	0.00011	0.0000	0.00011	520.44%

Sequence No.: 74
 Sample ID: 24D1470-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 86
 Date Collected: 4/16/2024 5:37:25 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1470-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4732852.8	99.47	%	0.795				0.80%
Y radial	187481.1	106.7	%	2.25				2.11%
Ag 328.068†	434.7	0.0016	mg/L	0.00040	0.0016	mg/L	0.00040	24.17%
Al 396.153†	345.6	0.0960	mg/L	0.00139	0.0960	mg/L	0.00139	1.45%
As 188.979†	-4.3	-0.0012	mg/L	0.00147	-0.0012	mg/L	0.00147	122.37%
B 208.889†	-36.4	-0.0023	mg/L	0.00038	-0.0023	mg/L	0.00038	16.75%
Ba 233.527†	3323.8	0.0213	mg/L	0.00014	0.0213	mg/L	0.00014	0.67%
Be 313.107†	-47.4	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	43.02%
Ca 317.933†	62279.2	9.698	mg/L	0.1183	9.698	mg/L	0.1183	1.22%
Cd 228.802†	6.0	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	84.40%
Co 228.616†	48.7	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.42%
Cr 267.716†	850.5	0.0072	mg/L	0.00007	0.0072	mg/L	0.00007	0.99%
Cu 327.393†	-89.3	-0.0006	mg/L	0.00019	-0.0006	mg/L	0.00019	34.44%
Fe 238.204†	455.1	0.2103	mg/L	0.00319	0.2103	mg/L	0.00319	1.52%
K 766.490†	3064.5	1.021	mg/L	0.0243	1.021	mg/L	0.0243	2.38%
Mg 285.213†	32933.9	4.181	mg/L	0.0421	4.181	mg/L	0.0421	1.01%
Mn 257.610†	123.6	0.0055	mg/L	0.00008	0.0055	mg/L	0.00008	1.55%
Mo 202.031†	35.3	0.0015	mg/L	0.00020	0.0015	mg/L	0.00020	12.89%
Na 589.592†	60310.1	5.747	mg/L	0.0536	5.747	mg/L	0.0536	0.93%
Ni 231.604†	171.2	0.0047	mg/L	0.00036	0.0047	mg/L	0.00036	7.61%
Pb 220.353†	12.0	0.0011	mg/L	0.00008	0.0011	mg/L	0.00008	7.36%
Sb 206.836†	10.0	0.0016	mg/L	0.00051	0.0016	mg/L	0.00051	31.95%
Se 196.026†	4.9	0.0010	mg/L	0.00325	0.0010	mg/L	0.00325	321.59%
Sn 189.927†	-97.9	-0.0125	mg/L	0.00003	-0.0125	mg/L	0.00003	0.28%
Ti 337.279†	73.4	0.0043	mg/L	0.00047	0.0043	mg/L	0.00047	10.93%
Tl 351.924†	-83.4	-0.0076	mg/L	0.00326	-0.0076	mg/L	0.00326	42.96%
V 290.880†	598.0	0.0029	mg/L	0.00039	0.0029	mg/L	0.00039	13.39%
Zn 206.200†	263.5	0.0036	mg/L	0.00007	0.0036	mg/L	0.00007	1.99%
Zr 343.823†	107.1	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	44.66%

Sequence No.: 75

Sample ID: B371351-MS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 87

Date Collected: 4/16/2024 5:42:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-MS2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4547170.6	95.57	%	0.702				0.73%
Y radial	184890.2	105.3	%	0.60				0.57%
Ag 328.068†	142421.4	0.5336	mg/L	0.00477	0.5336	mg/L	0.00477	0.89%
Al 396.153†	1882.0	0.5033	mg/L	0.00769	0.5033	mg/L	0.00769	1.53%
As 188.979†	1450.5	0.4982	mg/L	0.00479	0.4982	mg/L	0.00479	0.96%
B 208.889†	16934.9	0.9902	mg/L	0.00594	0.9902	mg/L	0.00594	0.60%
Ba 233.527†	92117.7	0.5904	mg/L	0.00503	0.5904	mg/L	0.00503	0.85%
Be 313.107†	208979.6	0.5165	mg/L	0.00718	0.5165	mg/L	0.00718	1.39%
Ca 317.933†	195917.4	30.51	mg/L	0.334	30.51	mg/L	0.334	1.10%
Cd 228.802†	54184.9	0.5169	mg/L	0.00395	0.5169	mg/L	0.00395	0.76%
Co 228.616†	47158.6	0.5085	mg/L	0.00407	0.5085	mg/L	0.00407	0.80%
Cr 267.716†	61175.1	0.5209	mg/L	0.00472	0.5209	mg/L	0.00472	0.91%
Cu 327.393†	159828.5	1.010	mg/L	0.0133	1.010	mg/L	0.0133	1.32%
Fe 238.204†	10219.7	4.725	mg/L	0.0351	4.725	mg/L	0.0351	0.74%
K 766.490†	39606.3	13.20	mg/L	0.108	13.20	mg/L	0.108	0.82%
Mg 285.213†	136032.2	17.28	mg/L	0.152	17.28	mg/L	0.152	0.88%
Mn 257.610†	16631.6	0.7350	mg/L	0.00720	0.7350	mg/L	0.00720	0.98%
Mo 202.031†	11665.1	0.5053	mg/L	0.00335	0.5053	mg/L	0.00335	0.66%
Na 589.592†	330260.6	31.47	mg/L	0.504	31.47	mg/L	0.504	1.60%
Ni 231.604†	18195.5	0.5041	mg/L	0.00450	0.5041	mg/L	0.00450	0.89%
Pb 220.353†	5644.9	0.4992	mg/L	0.00381	0.4992	mg/L	0.00381	0.76%
Sb 206.836†	2952.4	0.5183	mg/L	0.00425	0.5183	mg/L	0.00425	0.82%
Se 196.026†	911.3	0.5222	mg/L	0.00228	0.5222	mg/L	0.00228	0.44%
Sn 189.927†	3784.1	0.4821	mg/L	0.00397	0.4821	mg/L	0.00397	0.82%
Ti 337.279†	8860.9	0.5153	mg/L	0.01510	0.5153	mg/L	0.01510	2.93%
Tl 351.924†	5503.9	0.5064	mg/L	0.00901	0.5064	mg/L	0.00901	1.78%

V 290.880†	105631.5	0.5218 mg/L	0.00478	0.5218 mg/L	0.00478	0.92%
Zn 206.200†	66700.7	1.017 mg/L	0.0078	1.017 mg/L	0.0078	0.77%
Zr 343.823†	1244.8	0.0030 mg/L	0.00066	0.0030 mg/L	0.00066	21.74%

Sequence No.: 76

Sample ID: B371351-MSD2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 88

Date Collected: 4/16/2024 5:47:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-MSD2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4556178.9	95.76 %		1.144			1.19%
Y radial	183684.1	104.6 %		0.55			0.53%
Ag 328.068†	142004.6	0.5320 mg/L		0.00991	0.5320 mg/L	0.00991	1.86%
Al 396.153†	1859.8	0.4973 mg/L		0.00865	0.4973 mg/L	0.00865	1.74%
As 188.979†	1444.2	0.4960 mg/L		0.00592	0.4960 mg/L	0.00592	1.19%
B 208.889†	16913.1	0.9890 mg/L		0.02300	0.9890 mg/L	0.02300	2.33%
Ba 233.527†	91554.0	0.5868 mg/L		0.01124	0.5868 mg/L	0.01124	1.91%
Be 313.107†	211922.8	0.5238 mg/L		0.00736	0.5238 mg/L	0.00736	1.41%
Ca 317.933†	196130.6	30.54 mg/L		0.367	30.54 mg/L	0.367	1.20%
Cd 228.802†	53895.6	0.5141 mg/L		0.00869	0.5141 mg/L	0.00869	1.69%
Co 228.616†	47006.3	0.5069 mg/L		0.00877	0.5069 mg/L	0.00877	1.73%
Cr 267.716†	60907.8	0.5186 mg/L		0.00962	0.5186 mg/L	0.00962	1.86%
Cu 327.393†	159509.1	1.007 mg/L		0.0237	1.007 mg/L	0.0237	2.35%
Fe 238.204†	10174.6	4.704 mg/L		0.0400	4.704 mg/L	0.0400	0.85%
K 766.490†	40690.4	13.56 mg/L		0.157	13.56 mg/L	0.157	1.16%
Mg 285.213†	134971.1	17.14 mg/L		0.189	17.14 mg/L	0.189	1.10%
Mn 257.610†	16547.5	0.7312 mg/L		0.00632	0.7312 mg/L	0.00632	0.86%
Mo 202.031†	11620.1	0.5034 mg/L		0.00523	0.5034 mg/L	0.00523	1.04%
Na 589.592†	350457.0	33.39 mg/L		0.434	33.39 mg/L	0.434	1.30%
Ni 231.604†	18094.5	0.5013 mg/L		0.00974	0.5013 mg/L	0.00974	1.94%
Pb 220.353†	5642.8	0.4990 mg/L		0.00542	0.4990 mg/L	0.00542	1.09%
Sb 206.836†	2939.8	0.5161 mg/L		0.00512	0.5161 mg/L	0.00512	0.99%
Se 196.026†	911.0	0.5220 mg/L		0.00827	0.5220 mg/L	0.00827	1.58%
Sn 189.927†	3772.2	0.4806 mg/L		0.00466	0.4806 mg/L	0.00466	0.97%
Ti 337.279†	8761.7	0.5095 mg/L		0.00663	0.5095 mg/L	0.00663	1.30%
Tl 351.924†	5495.2	0.5056 mg/L		0.01202	0.5056 mg/L	0.01202	2.38%
V 290.880†	105189.2	0.5196 mg/L		0.01028	0.5196 mg/L	0.01028	1.98%
Zn 206.200†	66436.8	1.013 mg/L		0.0150	1.013 mg/L	0.0150	1.48%
Zr 343.823†	634.0	0.0015 mg/L		0.00014	0.0015 mg/L	0.00014	9.67%

Sequence No.: 77

Sample ID: B371351-PS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 89

Date Collected: 4/16/2024 5:52:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-PS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4529746.0	95.20 %		0.473			0.50%
Y radial	179206.4	102.0 %		0.50			0.49%
Ag 328.068†	477523.3	1.790 mg/L		0.0229	1.790 mg/L	0.0229	1.28%
Al 396.153†	7289.7	1.949 mg/L		0.0292	1.949 mg/L	0.0292	1.50%
As 188.979†	5633.4	1.933 mg/L		0.0097	1.933 mg/L	0.0097	0.50%
B 208.889†	65424.4	3.824 mg/L		0.0129	3.824 mg/L	0.0129	0.34%
Ba 233.527†	320212.7	2.053 mg/L		0.0050	2.053 mg/L	0.0050	0.24%
Be 313.107†	820663.1	2.029 mg/L		0.0292	2.029 mg/L	0.0292	1.44%
Ca 317.933†	267950.9	41.72 mg/L		0.626	41.72 mg/L	0.626	1.50%
Cd 228.802†	208526.1	1.989 mg/L		0.0040	1.989 mg/L	0.0040	0.20%
Co 228.616†	179272.5	1.933 mg/L		0.0049	1.933 mg/L	0.0049	0.25%
Cr 267.716†	231542.8	1.972 mg/L		0.0048	1.972 mg/L	0.0048	0.24%

Cu 327.393†	620487.0	3.919 mg/L	0.0081	3.919 mg/L	0.0081	0.21%
Fe 238.204†	35824.1	16.56 mg/L	0.294	16.56 mg/L	0.294	1.77%
K 766.490†	77949.7	25.98 mg/L	0.445	25.98 mg/L	0.445	1.71%
Mg 285.213†	226016.0	28.71 mg/L	0.503	28.71 mg/L	0.503	1.75%
Mn 257.610†	50265.4	2.221 mg/L	0.0315	2.221 mg/L	0.0315	1.42%
Mo 202.031†	45484.0	1.970 mg/L	0.0059	1.970 mg/L	0.0059	0.30%
Na 589.592†	489332.7	46.63 mg/L	0.848	46.63 mg/L	0.848	1.82%
Ni 231.604†	69511.6	1.926 mg/L	0.0056	1.926 mg/L	0.0056	0.29%
Pb 220.353†	21731.4	1.922 mg/L	0.0076	1.922 mg/L	0.0076	0.39%
Sb 206.836†	11368.3	1.997 mg/L	0.0074	1.997 mg/L	0.0074	0.37%
Se 196.026†	3501.7	2.022 mg/L	0.0065	2.022 mg/L	0.0065	0.32%
Sn 189.927†	15126.5	1.927 mg/L	0.0060	1.927 mg/L	0.0060	0.31%
Ti 337.279†	34541.6	2.009 mg/L	0.0343	2.009 mg/L	0.0343	1.71%
Tl 351.924†	22242.1	2.046 mg/L	0.0063	2.046 mg/L	0.0063	0.31%
V 290.880†	405518.9	2.003 mg/L	0.0030	2.003 mg/L	0.0030	0.15%
Zn 206.200†	254602.4	3.891 mg/L	0.0145	3.891 mg/L	0.0145	0.37%
Zr 343.823†	1133.8	0.0025 mg/L	0.00055	0.0025 mg/L	0.00055	22.38%

Sequence No.: 78

Sample ID: B371351-SRL2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 90

Date Collected: 4/16/2024 5:56:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371351-SRL2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4627991.1	97.27	%	0.796				0.82%
Y radial	185970.6	105.9	%	1.19				1.13%
Ag 328.068†	765.1	0.0029	mg/L	0.00008	0.0029	mg/L	0.00008	2.68%
Al 396.153†	-4.0	-0.0012	mg/L	0.00076	-0.0012	mg/L	0.00076	66.18%
As 188.979†	-8.0	-0.0026	mg/L	0.00202	-0.0026	mg/L	0.00202	77.61%
B 208.889†	-202.7	-0.0122	mg/L	0.00075	-0.0122	mg/L	0.00075	6.10%
Ba 233.527†	2204.8	0.0141	mg/L	0.00006	0.0141	mg/L	0.00006	0.44%
Be 313.107†	-12.7	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	69.15%
Ca 317.933†	33111.1	5.156	mg/L	0.0947	5.156	mg/L	0.0947	1.84%
Cd 228.802†	5.4	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	91.89%
Co 228.616†	79.8	0.0009	mg/L	0.00016	0.0009	mg/L	0.00016	19.00%
Cr 267.716†	205.0	0.0017	mg/L	0.00010	0.0017	mg/L	0.00010	6.06%
Cu 327.393†	-92.5	-0.0006	mg/L	0.00020	-0.0006	mg/L	0.00020	34.51%
Fe 238.204†	270.2	0.1249	mg/L	0.00055	0.1249	mg/L	0.00055	0.44%
K 766.490†	5370.8	1.790	mg/L	0.0403	1.790	mg/L	0.0403	2.25%
Mg 285.213†	20216.1	2.567	mg/L	0.0411	2.567	mg/L	0.0411	1.60%
Mn 257.610†	978.1	0.0432	mg/L	0.00057	0.0432	mg/L	0.00057	1.31%
Mo 202.031†	33.0	0.0014	mg/L	0.00029	0.0014	mg/L	0.00029	20.21%
Na 589.592†	57540.5	5.483	mg/L	0.0753	5.483	mg/L	0.0753	1.37%
Ni 231.604†	20.6	0.0006	mg/L	0.00019	0.0006	mg/L	0.00019	32.43%
Pb 220.353†	18.1	0.0016	mg/L	0.00036	0.0016	mg/L	0.00036	22.81%
Sb 206.836†	8.7	0.0015	mg/L	0.00145	0.0015	mg/L	0.00145	98.57%
Se 196.026†	4.5	0.0016	mg/L	0.00252	0.0016	mg/L	0.00252	161.49%
Sn 189.927†	-61.4	-0.0078	mg/L	0.00028	-0.0078	mg/L	0.00028	3.64%
Ti 337.279†	-8.7	-0.0005	mg/L	0.00017	-0.0005	mg/L	0.00017	32.92%
Tl 351.924†	-22.5	-0.0020	mg/L	0.00059	-0.0020	mg/L	0.00059	294.68%
V 290.880†	430.3	0.0021	mg/L	0.00031	0.0021	mg/L	0.00031	14.53%
Zn 206.200†	86.2	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	3.78%
Zr 343.823†	65.5	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	66.69%

Sequence No.: 79

Sample ID: 24D1470-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 91

Date Collected: 4/16/2024 6:02:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4544007.5	95.50	%	2.075				2.17%
Y radial	182644.5	104.0	%	1.26				1.21%
Ag 328.068†	558.6	0.0021	mg/L	0.00030	0.0021	mg/L	0.00030	14.52%
Al 396.153†	2.6	0.0007	mg/L	0.00136	0.0007	mg/L	0.00136	189.40%
As 188.979†	-13.0	-0.0038	mg/L	0.00204	-0.0038	mg/L	0.00204	54.13%
B 208.889†	13.9	0.0008	mg/L	0.00179	0.0008	mg/L	0.00179	229.19%
Ba 233.527†	11228.2	0.0718	mg/L	0.00160	0.0718	mg/L	0.00160	2.23%
Be 313.107†	-24.7	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	93.41%
Ca 317.933†	171343.3	26.68	mg/L	0.299	26.68	mg/L	0.299	1.12%
Cd 228.802†	-1.1	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	38.92%
Co 228.616†	344.9	0.0037	mg/L	0.00012	0.0037	mg/L	0.00012	3.17%
Cr 267.716†	1105.5	0.0093	mg/L	0.00025	0.0093	mg/L	0.00025	2.70%
Cu 327.393†	5.2	0.0000	mg/L	0.00025	0.0000	mg/L	0.00025	728.04%
Fe 238.204†	1334.2	0.6166	mg/L	0.00791	0.6166	mg/L	0.00791	1.28%
K 766.490†	28771.7	9.589	mg/L	0.0792	9.589	mg/L	0.0792	0.83%
Mg 285.213†	104571.9	13.28	mg/L	0.119	13.28	mg/L	0.119	0.90%
Mn 257.610†	5015.6	0.2216	mg/L	0.00208	0.2216	mg/L	0.00208	0.94%
Mo 202.031†	23.9	0.0010	mg/L	0.00039	0.0010	mg/L	0.00039	37.62%
Na 589.592†	309361.0	29.48	mg/L	0.243	29.48	mg/L	0.243	0.82%
Ni 231.604†	110.2	0.0031	mg/L	0.00027	0.0031	mg/L	0.00027	8.68%
Pb 220.353†	30.1	0.0026	mg/L	0.00074	0.0026	mg/L	0.00074	28.20%
Sb 206.836†	18.6	0.0030	mg/L	0.00112	0.0030	mg/L	0.00112	37.26%
Se 196.026†	7.8	-0.0009	mg/L	0.00071	-0.0009	mg/L	0.00071	79.04%
Sn 189.927†	-216.8	-0.0276	mg/L	0.00084	-0.0276	mg/L	0.00084	3.03%
Ti 337.279†	-1.7	-0.0001	mg/L	0.00027	-0.0001	mg/L	0.00027	267.86%
Tl 351.924†	-93.6	-0.0082	mg/L	0.00575	-0.0082	mg/L	0.00575	69.80%
V 290.880†	637.3	0.0031	mg/L	0.00054	0.0031	mg/L	0.00054	17.35%
Zn 206.200†	220.1	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	10.43%
Zr 343.823†	102.5	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	49.38%

Sequence No.: 80

Sample ID: 24D1470-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 92

Date Collected: 4/16/2024 6:07:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4640556.5	97.53	%	2.565				2.63%
Y radial	181106.9	103.1	%	1.00				0.97%
Ag 328.068†	555.9	0.0021	mg/L	0.00030	0.0021	mg/L	0.00030	14.41%
Al 396.153†	1199.1	0.3332	mg/L	0.00845	0.3332	mg/L	0.00845	2.54%
As 188.979†	-10.1	-0.0030	mg/L	0.00224	-0.0030	mg/L	0.00224	75.47%
B 208.889†	913.8	0.0546	mg/L	0.00411	0.0546	mg/L	0.00411	7.53%
Ba 233.527†	4459.8	0.0286	mg/L	0.00081	0.0286	mg/L	0.00081	2.83%
Be 313.107†	-5.0	-0.0000	mg/L	0.00005	-0.0000	mg/L	0.00005	139.41%
Ca 317.933†	126256.6	19.66	mg/L	0.238	19.66	mg/L	0.238	1.21%
Cd 228.802†	19.5	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	20.50%
Co 228.616†	63.2	0.0007	mg/L	0.00006	0.0007	mg/L	0.00006	8.73%
Cr 267.716†	1690.1	0.0144	mg/L	0.00049	0.0144	mg/L	0.00049	3.39%
Cu 327.393†	105.7	0.0007	mg/L	0.00018	0.0007	mg/L	0.00018	27.08%
Fe 238.204†	317.0	0.1465	mg/L	0.00170	0.1465	mg/L	0.00170	1.16%
K 766.490†	26200.7	8.732	mg/L	0.0602	8.732	mg/L	0.0602	0.69%
Mg 285.213†	74111.8	9.409	mg/L	0.1086	9.409	mg/L	0.1086	1.15%
Mn 257.610†	784.4	0.0347	mg/L	0.00060	0.0347	mg/L	0.00060	1.72%
Mo 202.031†	95.9	0.0042	mg/L	0.00013	0.0042	mg/L	0.00013	3.12%
Na 589.592†	198431.2	18.91	mg/L	0.216	18.91	mg/L	0.216	1.14%
Ni 231.604†	230.4	0.0064	mg/L	0.00017	0.0064	mg/L	0.00017	2.68%
Pb 220.353†	33.5	0.0030	mg/L	0.00068	0.0030	mg/L	0.00068	22.64%
Sb 206.836†	19.0	0.0030	mg/L	0.00023	0.0030	mg/L	0.00023	7.74%
Se 196.026†	11.3	0.0027	mg/L	0.00168	0.0027	mg/L	0.00168	63.48%
Sn 189.927†	-173.1	-0.0221	mg/L	0.00123	-0.0221	mg/L	0.00123	5.59%
Ti 337.279†	291.5	0.0170	mg/L	0.00034	0.0170	mg/L	0.00034	2.00%
Tl 351.924†	-90.0	-0.0083	mg/L	0.00470	-0.0083	mg/L	0.00470	56.75%

V 290.880†	956.7	0.0047 mg/L	0.00025	0.0047 mg/L	0.00025	5.33%
Zn 206.200†	1167.2	0.0163 mg/L	0.00048	0.0163 mg/L	0.00048	2.92%
Zr 343.823†	210.1	0.0005 mg/L	0.00013	0.0005 mg/L	0.00013	23.99%

Sequence No.: 81
Sample ID: 24D1470-03
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 93
Date Collected: 4/16/2024 6:13:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1470-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4616014.9	97.02 %		0.927			0.96%
Y radial	179795.6	102.4 %		0.85			0.83%
Ag 328.068†	647.8	0.0024 mg/L		0.00017	0.0024 mg/L	0.00017	6.93%
Al 396.153†	1275.9	0.3546 mg/L		0.00523	0.3546 mg/L	0.00523	1.47%
As 188.979†	-12.2	-0.0039 mg/L		0.00181	-0.0039 mg/L	0.00181	46.58%
B 208.889†	895.5	0.0536 mg/L		0.00173	0.0536 mg/L	0.00173	3.22%
Ba 233.527†	11665.9	0.0747 mg/L		0.00081	0.0747 mg/L	0.00081	1.09%
Be 313.107†	-14.3	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	27.92%
Ca 317.933†	79202.9	12.33 mg/L		0.327	12.33 mg/L	0.327	2.65%
Cd 228.802†	5.9	0.0002 mg/L		0.00006	0.0002 mg/L	0.00006	37.27%
Co 228.616†	40.3	0.0004 mg/L		0.00005	0.0004 mg/L	0.00005	13.31%
Cr 267.716†	3635.7	0.0309 mg/L		0.00031	0.0309 mg/L	0.00031	1.00%
Cu 327.393†	48.1	0.0003 mg/L		0.00027	0.0003 mg/L	0.00027	87.60%
Fe 238.204†	676.1	0.3125 mg/L		0.00360	0.3125 mg/L	0.00360	1.15%
K 766.490†	21367.0	7.121 mg/L		0.1622	7.121 mg/L	0.1622	2.28%
Mg 285.213†	52890.4	6.715 mg/L		0.1769	6.715 mg/L	0.1769	2.63%
Mn 257.610†	1236.2	0.0546 mg/L		0.00060	0.0546 mg/L	0.00060	1.11%
Mo 202.031†	60.3	0.0026 mg/L		0.00007	0.0026 mg/L	0.00007	2.86%
Na 589.592†	194463.5	18.53 mg/L		0.506	18.53 mg/L	0.506	2.73%
Ni 231.604†	624.4	0.0173 mg/L		0.00034	0.0173 mg/L	0.00034	1.96%
Pb 220.353†	10.4	0.0010 mg/L		0.00055	0.0010 mg/L	0.00055	57.46%
Sb 206.836†	14.3	0.0019 mg/L		0.00096	0.0019 mg/L	0.00096	51.06%
Se 196.026†	2.8	-0.0010 mg/L		0.00129	-0.0010 mg/L	0.00129	132.62%
Sn 189.927†	-126.8	-0.0162 mg/L		0.00009	-0.0162 mg/L	0.00009	0.58%
Ti 337.279†	203.5	0.0118 mg/L		0.00260	0.0118 mg/L	0.00260	21.94%
Tl 351.924†	-69.1	-0.0062 mg/L		0.00136	-0.0062 mg/L	0.00136	21.86%
V 290.880†	821.1	0.0040 mg/L		0.00034	0.0040 mg/L	0.00034	8.40%
Zn 206.200†	434.9	0.0053 mg/L		0.00006	0.0053 mg/L	0.00006	1.20%
Zr 343.823†	236.9	0.0006 mg/L		0.00018	0.0006 mg/L	0.00018	29.85%

Sequence No.: 82
Sample ID: 24D1470-04
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 94
Date Collected: 4/16/2024 6:19:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1470-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4650011.8	97.73 %		0.552			0.57%
Y radial	179690.0	102.3 %		0.61			0.60%
Ag 328.068†	544.1	0.0020 mg/L		0.00017	0.0020 mg/L	0.00017	8.35%
Al 396.153†	353.9	0.0984 mg/L		0.00590	0.0984 mg/L	0.00590	6.00%
As 188.979†	-8.7	-0.0027 mg/L		0.00209	-0.0027 mg/L	0.00209	77.97%
B 208.889†	193.2	0.0115 mg/L		0.00043	0.0115 mg/L	0.00043	3.76%
Ba 233.527†	4538.7	0.0291 mg/L		0.00012	0.0291 mg/L	0.00012	0.41%
Be 313.107†	-10.3	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	30.31%
Ca 317.933†	85651.6	13.34 mg/L		0.119	13.34 mg/L	0.119	0.89%
Cd 228.802†	3.6	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	84.61%
Co 228.616†	475.6	0.0051 mg/L		0.00006	0.0051 mg/L	0.00006	1.09%
Cr 267.716†	97.2	0.0008 mg/L		0.00006	0.0008 mg/L	0.00006	7.89%

Cu 327.393†	334.0	0.0021 mg/L	0.00026	0.0021 mg/L	0.00026	12.51%
Fe 238.204†	126.3	0.0584 mg/L	0.00174	0.0584 mg/L	0.00174	2.98%
K 766.490†	8166.8	2.722 mg/L	0.0462	2.722 mg/L	0.0462	1.70%
Mg 285.213†	69242.3	8.792 mg/L	0.1048	8.792 mg/L	0.1048	1.19%
Mn 257.610†	499.2	0.0221 mg/L	0.00016	0.0221 mg/L	0.00016	0.72%
Mo 202.031†	20.8	0.0009 mg/L	0.00026	0.0009 mg/L	0.00026	28.50%
Na 589.592†	239702.2	22.84 mg/L	0.261	22.84 mg/L	0.261	1.14%
Ni 231.604†	552.3	0.0153 mg/L	0.00013	0.0153 mg/L	0.00013	0.83%
Pb 220.353†	13.9	0.0012 mg/L	0.00046	0.0012 mg/L	0.00046	37.05%
Sb 206.836†	14.7	0.0025 mg/L	0.00019	0.0025 mg/L	0.00019	7.76%
Se 196.026†	10.3	0.0028 mg/L	0.00243	0.0028 mg/L	0.00243	85.50%
Sn 189.927†	-135.9	-0.0173 mg/L	0.00117	-0.0173 mg/L	0.00117	6.77%
Ti 337.279†	63.7	0.0037 mg/L	0.00011	0.0037 mg/L	0.00011	2.98%
Tl 351.924†	-89.2	-0.0082 mg/L	0.00175	-0.0082 mg/L	0.00175	21.36%
V 290.880†	455.5	0.0022 mg/L	0.00033	0.0022 mg/L	0.00033	14.85%
Zn 206.200†	5718.7	0.0854 mg/L	0.00042	0.0854 mg/L	0.00042	0.49%
Zr 343.823†	76.8	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	31.95%

Sequence No.: 83

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 6:24:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4587720.4	96.42 %	0.859			0.89%
Y radial	182012.3	103.6 %	2.84			2.74%
Ag 328.068†	657686.1	2.434 mg/L	0.0272	2.434 mg/L	0.0272	1.12%
QC value within limits for Ag 328.068 Recovery = 97.35%						
Al 396.153†	34960.7	9.462 mg/L	0.2303	9.462 mg/L	0.2303	2.43%
QC value within limits for Al 396.153 Recovery = 94.62%						
As 188.979†	14004.3	4.793 mg/L	0.0684	4.793 mg/L	0.0684	1.43%
QC value within limits for As 188.979 Recovery = 95.86%						
B 208.889†	80712.3	4.596 mg/L	0.0361	4.596 mg/L	0.0361	0.79%
QC value within limits for B 208.889 Recovery = 91.92%						
Ba 233.527†	768406.4	4.931 mg/L	0.0442	4.931 mg/L	0.0442	0.90%
QC value within limits for Ba 233.527 Recovery = 98.61%						
Be 313.107†	1961768.1	4.849 mg/L	0.1039	4.849 mg/L	0.1039	2.14%
QC value within limits for Be 313.107 Recovery = 96.97%						
Ca 317.933†	61997.4	9.654 mg/L	0.2585	9.654 mg/L	0.2585	2.68%
QC value within limits for Ca 317.933 Recovery = 96.54%						
Cd 228.802†	511940.8	4.881 mg/L	0.0451	4.881 mg/L	0.0451	0.92%
QC value within limits for Cd 228.802 Recovery = 97.63%						
Co 228.616†	456868.7	4.926 mg/L	0.0494	4.926 mg/L	0.0494	1.00%
QC value within limits for Co 228.616 Recovery = 98.53%						
Cr 267.716†	573789.8	4.888 mg/L	0.0446	4.888 mg/L	0.0446	0.91%
QC value within limits for Cr 267.716 Recovery = 97.75%						
Cu 327.393†	765219.0	4.851 mg/L	0.0290	4.851 mg/L	0.0290	0.60%
QC value within limits for Cu 327.393 Recovery = 97.01%						
Fe 238.204†	10724.2	4.982 mg/L	0.1363	4.982 mg/L	0.1363	2.74%
QC value within limits for Fe 238.204 Recovery = 99.64%						
K 766.490†	28658.8	9.551 mg/L	0.2082	9.551 mg/L	0.2082	2.18%
QC value within limits for K 766.490 Recovery = 95.51%						
Mg 285.213†	77345.6	9.801 mg/L	0.2356	9.801 mg/L	0.2356	2.40%
QC value within limits for Mg 285.213 Recovery = 98.01%						
Mn 257.610†	111555.2	4.928 mg/L	0.1294	4.928 mg/L	0.1294	2.63%
QC value within limits for Mn 257.610 Recovery = 98.55%						
Mo 202.031†	112212.9	4.861 mg/L	0.0374	4.861 mg/L	0.0374	0.77%
QC value within limits for Mo 202.031 Recovery = 97.22%						
Na 589.592†	98608.2	9.396 mg/L	0.1912	9.396 mg/L	0.1912	2.03%
QC value within limits for Na 589.592 Recovery = 93.96%						
Ni 231.604†	177279.2	4.913 mg/L	0.0394	4.913 mg/L	0.0394	0.80%
QC value within limits for Ni 231.604 Recovery = 98.26%						
Pb 220.353†	54471.1	4.829 mg/L	0.0525	4.829 mg/L	0.0525	1.09%
QC value within limits for Pb 220.353 Recovery = 96.59%						

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Sb 206.836†	26961.4	4.735 mg/L	0.0752	4.735 mg/L	0.0752	1.59%
QC value within limits for Sb 206.836 Recovery = 94.70%						
Se 196.026†	8282.4	4.803 mg/L	0.0637	4.803 mg/L	0.0637	1.33%
QC value within limits for Se 196.026 Recovery = 96.07%						
Sn 189.927†	37614.6	4.788 mg/L	0.0537	4.788 mg/L	0.0537	1.12%
QC value within limits for Sn 189.927 Recovery = 95.75%						
Ti 337.279†	82524.0	4.796 mg/L	0.1159	4.796 mg/L	0.1159	2.42%
QC value within limits for Ti 337.279 Recovery = 95.92%						
Tl 351.924†	26126.0	2.368 mg/L	0.0221	2.368 mg/L	0.0221	0.93%
QC value within limits for Tl 351.924 Recovery = 94.72%						
V 290.880†	994814.2	4.917 mg/L	0.0480	4.917 mg/L	0.0480	0.98%
QC value within limits for V 290.880 Recovery = 98.35%						
Zn 206.200†	321572.7	4.939 mg/L	0.0564	4.939 mg/L	0.0564	1.14%
QC value within limits for Zn 206.200 Recovery = 98.77%						
Zr 343.823†	1923280.7	4.848 mg/L	0.0406	4.848 mg/L	0.0406	0.84%
All analyte(s) passed QC.						

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By NC at 11:01 am, Apr 17, 2024

Sequence No.: 84

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 6:30:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4615747.3	97.01 %	1.343			1.38%
Y radial	183134.8	104.3 %	2.37			2.27%
Ag 328.068†	538.6	0.0020 mg/L	0.00049	0.0020 mg/L	0.00049	24.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-12.9	-0.0036 mg/L	0.00409	-0.0036 mg/L	0.00409	112.43%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-4.4	-0.0015 mg/L	0.00057	-0.0015 mg/L	0.00057	37.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-635.2	-0.0382 mg/L	0.00070	-0.0382 mg/L	0.00070	1.82%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	10.9	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	39.02%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-25.8	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	77.42%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	20.8	0.0032 mg/L	0.00453	0.0032 mg/L	0.00453	139.75%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	4.2	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	52.36%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-2.3	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	345.40%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-19.6	-0.0002 mg/L	0.00008	-0.0002 mg/L	0.00008	50.39%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-241.5	-0.0015 mg/L	0.00010	-0.0015 mg/L	0.00010	6.73%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	1.7	0.0008 mg/L	0.00129	0.0008 mg/L	0.00129	164.07%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	-47.2	-0.0157 mg/L	0.00916	-0.0157 mg/L	0.00916	58.26%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	2.0	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	36.61%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	5.9	0.0003 mg/L	0.00027	0.0003 mg/L	0.00027	105.70%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	30.0	0.0013 mg/L	0.00019	0.0013 mg/L	0.00019	14.39%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-39.9	-0.0038 mg/L	0.00413	-0.0038 mg/L	0.00413	108.52%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-2.5	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	54.09%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	16.9	0.0015 mg/L	0.00037	0.0015 mg/L	0.00037	24.52%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	7.3	0.0013 mg/L	0.00052	0.0013 mg/L	0.00052	40.04%

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QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 4.4 0.0026 mg/L 0.00081 0.0026 mg/L 0.00081 31.49%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† -1.6 -0.0002 mg/L 0.00027 -0.0002 mg/L 0.00027 128.85%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 0.1 0.0000 mg/L 0.00035 0.0000 mg/L 0.00035 >999.9%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -36.5 -0.0034 mg/L 0.00849 -0.0034 mg/L 0.00849 251.78%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 286.8 0.0014 mg/L 0.00058 0.0014 mg/L 0.00058 40.68%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 8.7 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 70.89%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 24.0 0.0001 mg/L 0.00004 0.0001 mg/L 0.00004 67.52%
 All analyte(s) passed QC.

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By NC at 11:01 am, Apr 17, 2024

Sequence No.: 85

Sample ID: 24D1470-06

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 95

Date Collected: 4/16/2024 6:35:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4566028.2	95.97 %		0.564				0.59%
Y radial	177326.0	101.0 %		1.47				1.46%
Ag 328.068†	590.6	0.0022 mg/L		0.00012	0.0022 mg/L		0.00012	5.30%
Al 396.153†	94.1	0.0261 mg/L		0.00369	0.0261 mg/L		0.00369	14.12%
As 188.979†	-14.5	-0.0045 mg/L		0.00032	-0.0045 mg/L		0.00032	7.13%
B 208.889†	428.1	0.0256 mg/L		0.00038	0.0256 mg/L		0.00038	1.46%
Ba 233.527†	13587.8	0.0870 mg/L		0.00071	0.0870 mg/L		0.00071	0.81%
Be 313.107†	-4.3	-0.0000 mg/L		0.00003	-0.0000 mg/L		0.00003	125.73%
Ca 317.933†	160117.1	24.93 mg/L		0.191	24.93 mg/L		0.191	0.76%
Cd 228.802†	8.9	0.0002 mg/L		0.00006	0.0002 mg/L		0.00006	31.29%
Co 228.616†	51.7	0.0006 mg/L		0.00003	0.0006 mg/L		0.00003	4.81%
Cr 267.716†	162.8	0.0014 mg/L		0.00012	0.0014 mg/L		0.00012	8.87%
Cu 327.393†	47.7	0.0003 mg/L		0.00024	0.0003 mg/L		0.00024	80.72%
Fe 238.204†	139.9	0.0646 mg/L		0.00095	0.0646 mg/L		0.00095	1.46%
K 766.490†	4553.5	1.518 mg/L		0.0248	1.518 mg/L		0.0248	1.63%
Mg 285.213†	96510.6	12.25 mg/L		0.062	12.25 mg/L		0.062	0.50%
Mn 257.610†	105.2	0.0047 mg/L		0.00005	0.0047 mg/L		0.00005	1.17%
Mo 202.031†	24.0	0.0010 mg/L		0.00035	0.0010 mg/L		0.00035	33.81%
Na 589.592†	204088.9	19.45 mg/L		0.085	19.45 mg/L		0.085	0.44%
Ni 231.604†	81.2	0.0023 mg/L		0.00033	0.0023 mg/L		0.00033	14.75%
Pb 220.353†	26.2	0.0023 mg/L		0.00019	0.0023 mg/L		0.00019	8.32%
Sb 206.836†	15.8	0.0026 mg/L		0.00119	0.0026 mg/L		0.00119	44.95%
Se 196.026†	13.8	0.0030 mg/L		0.00153	0.0030 mg/L		0.00153	51.44%
Sn 189.927†	-205.0	-0.0261 mg/L		0.00055	-0.0261 mg/L		0.00055	2.12%
Ti 337.279†	22.6	0.0013 mg/L		0.00046	0.0013 mg/L		0.00046	34.96%
Tl 351.924†	-62.6	-0.0057 mg/L		0.00524	-0.0057 mg/L		0.00524	91.22%
V 290.880†	696.1	0.0034 mg/L		0.00053	0.0034 mg/L		0.00053	15.40%
Zn 206.200†	433.1	0.0050 mg/L		0.00014	0.0050 mg/L		0.00014	2.79%
Zr 343.823†	132.8	0.0003 mg/L		0.00007	0.0003 mg/L		0.00007	19.77%

Sequence No.: 86

Sample ID: 24D1470-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 96

Date Collected: 4/16/2024 6:41:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD

Y axial	4635623.5	97.43 %	0.666			0.68%
Y radial	183276.2	104.3 %	2.20			2.11%
Ag 328.068†	523.7	0.0020 mg/L	0.00041	0.0020 mg/L	0.00041	19.90%
Al 396.153†	4550.2	1.265 mg/L	0.0130	1.265 mg/L	0.0130	1.02%
As 188.979†	-11.5	-0.0017 mg/L	0.00152	-0.0017 mg/L	0.00152	91.28%
B 208.889†	698.2	0.0418 mg/L	0.00070	0.0418 mg/L	0.00070	1.68%
Ba 233.527†	14406.6	0.0916 mg/L	0.00048	0.0916 mg/L	0.00048	0.52%
Be 313.107†	-50.3	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	34.03%
Ca 317.933†	139309.3	21.69 mg/L	0.114	21.69 mg/L	0.114	0.53%
Cd 228.802†	2.9	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	18.01%
Co 228.616†	162.3	0.0017 mg/L	0.00011	0.0017 mg/L	0.00011	6.84%
Cr 267.716†	2179.5	0.0185 mg/L	0.00021	0.0185 mg/L	0.00021	1.13%
Cu 327.393†	463.7	0.0029 mg/L	0.00029	0.0029 mg/L	0.00029	9.84%
Fe 238.204†	11318.2	5.230 mg/L	0.1239	5.230 mg/L	0.1239	2.37%
K 766.490†	4290.6	1.430 mg/L	0.0055	1.430 mg/L	0.0055	0.39%
Mg 285.213†	78801.0	10.01 mg/L	0.034	10.01 mg/L	0.034	0.33%
Mn 257.610†	545.2	0.0245 mg/L	0.00064	0.0245 mg/L	0.00064	2.63%
Mo 202.031†	51.8	0.0022 mg/L	0.00005	0.0022 mg/L	0.00005	2.41%
Na 589.592†	177790.9	16.94 mg/L	0.125	16.94 mg/L	0.125	0.74%
Ni 231.604†	198.3	0.0055 mg/L	0.00019	0.0055 mg/L	0.00019	3.48%
Pb 220.353†	34.8	0.0031 mg/L	0.00067	0.0031 mg/L	0.00067	21.70%
Sb 206.836†	13.9	0.0022 mg/L	0.00080	0.0022 mg/L	0.00080	35.74%
Se 196.026†	7.9	0.0005 mg/L	0.00120	0.0005 mg/L	0.00120	219.77%
Sn 189.927†	-183.6	-0.0234 mg/L	0.00037	-0.0234 mg/L	0.00037	1.56%
Ti 337.279†	695.5	0.0404 mg/L	0.00314	0.0404 mg/L	0.00314	7.77%
Tl 351.924†	-111.1	-0.0070 mg/L	0.00587	-0.0070 mg/L	0.00587	83.85%
V 290.880†	763.3	0.0034 mg/L	0.00026	0.0034 mg/L	0.00026	7.62%
Zn 206.200†	784.4	0.0103 mg/L	0.00006	0.0103 mg/L	0.00006	0.61%
Zr 343.823†	1941.6	0.0048 mg/L	0.00305	0.0048 mg/L	0.00305	63.95%

Sequence No.: 87

Sample ID: 24D1470-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 97

Date Collected: 4/16/2024 6:46:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4616265.6	97.02 %	0.460			0.47%
Y radial	178440.3	101.6 %	0.80			0.79%
Ag 328.068†	529.2	0.0020 mg/L	0.00005	0.0020 mg/L	0.00005	2.53%
Al 396.153†	3.1	0.0008 mg/L	0.00106	0.0008 mg/L	0.00106	127.72%
As 188.979†	-9.6	-0.0028 mg/L	0.00315	-0.0028 mg/L	0.00315	111.96%
B 208.889†	164.1	0.0098 mg/L	0.00048	0.0098 mg/L	0.00048	4.90%
Ba 233.527†	12619.9	0.0808 mg/L	0.00094	0.0808 mg/L	0.00094	1.16%
Be 313.107†	-16.0	-0.0000 mg/L	0.00001	-0.0000 mg/L	0.00001	26.22%
Ca 317.933†	150891.1	23.50 mg/L	0.082	23.50 mg/L	0.082	0.35%
Cd 228.802†	4.3	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	43.16%
Co 228.616†	564.8	0.0061 mg/L	0.00021	0.0061 mg/L	0.00021	3.41%
Cr 267.716†	677.0	0.0057 mg/L	0.00011	0.0057 mg/L	0.00011	1.99%
Cu 327.393†	152.7	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	27.12%
Fe 238.204†	138.3	0.0639 mg/L	0.00111	0.0639 mg/L	0.00111	1.74%
K 766.490†	78107.3	26.03 mg/L	0.040	26.03 mg/L	0.040	0.15%
Mg 285.213†	93141.6	11.82 mg/L	0.039	11.82 mg/L	0.039	0.33%
Mn 257.610†	2226.8	0.0984 mg/L	0.00054	0.0984 mg/L	0.00054	0.55%
Mo 202.031†	16.7	0.0007 mg/L	0.00020	0.0007 mg/L	0.00020	27.45%
Na 589.592†	226380.9	21.57 mg/L	0.031	21.57 mg/L	0.031	0.14%
Ni 231.604†	1262.8	0.0350 mg/L	0.00021	0.0350 mg/L	0.00021	0.59%
Pb 220.353†	26.4	0.0023 mg/L	0.00042	0.0023 mg/L	0.00042	17.89%
Sb 206.836†	16.1	0.0026 mg/L	0.00065	0.0026 mg/L	0.00065	24.90%
Se 196.026†	12.8	0.0026 mg/L	0.00228	0.0026 mg/L	0.00228	87.26%
Sn 189.927†	-203.9	-0.0260 mg/L	0.00077	-0.0260 mg/L	0.00077	2.96%
Ti 337.279†	6.8	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	54.66%
Tl 351.924†	-92.5	-0.0085 mg/L	0.00751	-0.0085 mg/L	0.00751	88.40%
V 290.880†	316.8	0.0016 mg/L	0.00052	0.0016 mg/L	0.00052	33.62%
Zn 206.200†	157.7	0.0006 mg/L	0.00011	0.0006 mg/L	0.00011	18.15%

Zr 343.823† 52.0 0.0001 mg/L 0.00018 0.0001 mg/L 0.00018 142.02%

Sequence No.: 88

Sample ID: 24D1470-09

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 98

Date Collected: 4/16/2024 6:52:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-09

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4621075.3	97.12	%	0.558			0.57%
Y radial	178621.6	101.7	%	0.36			0.36%
Ag 328.068†	599.2	0.0022	mg/L	0.00010	0.0022 mg/L	0.00010	4.34%
Al 396.153†	19.2	0.0053	mg/L	0.00522	0.0053 mg/L	0.00522	98.07%
As 188.979†	-7.0	-0.0021	mg/L	0.00088	-0.0021 mg/L	0.00088	41.80%
B 208.889†	722.4	0.0433	mg/L	0.00079	0.0433 mg/L	0.00079	1.82%
Ba 233.527†	10456.6	0.0670	mg/L	0.00038	0.0670 mg/L	0.00038	0.57%
Be 313.107†	26.4	0.0001	mg/L	0.00001	0.0001 mg/L	0.00001	27.16%
Ca 317.933†	106387.6	16.57	mg/L	0.060	16.57 mg/L	0.060	0.36%
Cd 228.802†	-1.4	0.0000	mg/L	0.00006	0.0000 mg/L	0.00006	144.61%
Co 228.616†	45.3	0.0005	mg/L	0.00010	0.0005 mg/L	0.00010	20.70%
Cr 267.716†	491.0	0.0042	mg/L	0.00014	0.0042 mg/L	0.00014	3.39%
Cu 327.393†	80.9	0.0005	mg/L	0.00039	0.0005 mg/L	0.00039	76.65%
Fe 238.204†	17.0	0.0079	mg/L	0.00106	0.0079 mg/L	0.00106	13.45%
K 766.490†	63400.9	21.13	mg/L	0.112	21.13 mg/L	0.112	0.53%
Mg 285.213†	67549.4	8.576	mg/L	0.0749	8.576 mg/L	0.0749	0.87%
Mn 257.610†	26.1	0.0012	mg/L	0.00013	0.0012 mg/L	0.00013	10.92%
Mo 202.031†	10.1	0.0004	mg/L	0.00007	0.0004 mg/L	0.00007	15.71%
Na 589.592†	246432.4	23.48	mg/L	0.163	23.48 mg/L	0.163	0.69%
Ni 231.604†	39.7	0.0011	mg/L	0.00012	0.0011 mg/L	0.00012	10.60%
Pb 220.353†	19.1	0.0017	mg/L	0.00043	0.0017 mg/L	0.00043	25.50%
Sb 206.836†	11.3	0.0018	mg/L	0.00031	0.0018 mg/L	0.00031	17.24%
Se 196.026†	2.0	-0.0023	mg/L	0.00246	-0.0023 mg/L	0.00246	108.94%
Sn 189.927†	-156.4	-0.0199	mg/L	0.00007	-0.0199 mg/L	0.00007	0.36%
Ti 337.279†	1.3	0.0001	mg/L	0.00030	0.0001 mg/L	0.00030	395.02%
Tl 351.924†	-89.0	-0.0082	mg/L	0.00122	-0.0082 mg/L	0.00122	14.87%
V 290.880†	436.9	0.0022	mg/L	0.00033	0.0022 mg/L	0.00033	15.24%
Zn 206.200†	110.1	-0.0003	mg/L	0.00011	-0.0003 mg/L	0.00011	38.66%
Zr 343.823†	217.5	0.0005	mg/L	0.00023	0.0005 mg/L	0.00023	42.73%

Sequence No.: 89

Sample ID: 24D1470-10

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 99

Date Collected: 4/16/2024 6:58:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4591409.1	96.50	%	0.089			0.09%
Y radial	179965.5	102.5	%	0.55			0.54%
Ag 328.068†	549.5	0.0021	mg/L	0.00030	0.0021 mg/L	0.00030	14.83%
Al 396.153†	23.9	0.0066	mg/L	0.00718	0.0066 mg/L	0.00718	108.65%
As 188.979†	-11.1	-0.0035	mg/L	0.00026	-0.0035 mg/L	0.00026	7.39%
B 208.889†	770.0	0.0461	mg/L	0.00030	0.0461 mg/L	0.00030	0.65%
Ba 233.527†	20911.4	0.1340	mg/L	0.00112	0.1340 mg/L	0.00112	0.83%
Be 313.107†	-25.8	-0.0001	mg/L	0.00002	-0.0001 mg/L	0.00002	20.75%
Ca 317.933†	120513.9	18.77	mg/L	0.079	18.77 mg/L	0.079	0.42%
Cd 228.802†	5.4	0.0001	mg/L	0.00006	0.0001 mg/L	0.00006	44.89%
Co 228.616†	23.8	0.0003	mg/L	0.00010	0.0003 mg/L	0.00010	34.74%
Cr 267.716†	278.9	0.0024	mg/L	0.00010	0.0024 mg/L	0.00010	4.15%
Cu 327.393†	66.5	0.0004	mg/L	0.00004	0.0004 mg/L	0.00004	10.48%
Fe 238.204†	43.9	0.0203	mg/L	0.00031	0.0203 mg/L	0.00031	1.54%

K 766.490†	42919.0	14.30 mg/L	0.091	14.30 mg/L	0.091	0.64%
Mg 285.213†	77268.6	9.810 mg/L	0.1169	9.810 mg/L	0.1169	1.19%
Mn 257.610†	41.4	0.0018 mg/L	0.00014	0.0018 mg/L	0.00014	7.51%
Mo 202.031†	17.8	0.0008 mg/L	0.00008	0.0008 mg/L	0.00008	9.82%
Na 589.592†	244905.1	23.34 mg/L	0.187	23.34 mg/L	0.187	0.80%
Ni 231.604†	48.7	0.0014 mg/L	0.00028	0.0014 mg/L	0.00028	20.95%
Pb 220.353†	19.7	0.0017 mg/L	0.00046	0.0017 mg/L	0.00046	26.28%
Sb 206.836†	12.9	0.0021 mg/L	0.00070	0.0021 mg/L	0.00070	32.84%
Se 196.026†	5.5	-0.0007 mg/L	0.00130	-0.0007 mg/L	0.00130	189.11%
Sn 189.927†	-174.9	-0.0223 mg/L	0.00077	-0.0223 mg/L	0.00077	3.46%
Ti 337.279†	-3.9	-0.0002 mg/L	0.00026	-0.0002 mg/L	0.00026	115.09%
Tl 351.924†	-58.9	-0.0054 mg/L	0.00618	-0.0054 mg/L	0.00618	113.74%
V 290.880†	420.6	0.0021 mg/L	0.00006	0.0021 mg/L	0.00006	2.93%
Zn 206.200†	27.9	-0.0016 mg/L	0.00003	-0.0016 mg/L	0.00003	2.15%
Zr 343.823†	225.8	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	21.67%

Sequence No.: 90

Sample ID: 24D1470-11

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 100

Date Collected: 4/16/2024 7:03:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1470-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4580855.1	96.28 %		0.640			0.66%
Y radial	179433.2	102.2 %		0.47			0.46%
Ag 328.068†	578.1	0.0022 mg/L		0.00028	0.0022 mg/L	0.00028	12.76%
Al 396.153†	10.3	0.0028 mg/L		0.00883	0.0028 mg/L	0.00883	311.77%
As 188.979†	-9.7	-0.0030 mg/L		0.00246	-0.0030 mg/L	0.00246	81.82%
B 208.889†	666.5	0.0399 mg/L		0.00069	0.0399 mg/L	0.00069	1.73%
Ba 233.527†	10914.6	0.0699 mg/L		0.00082	0.0699 mg/L	0.00082	1.17%
Be 313.107†	-63.2	-0.0002 mg/L		0.00003	-0.0002 mg/L	0.00003	15.62%
Ca 317.933†	117660.5	18.32 mg/L		0.049	18.32 mg/L	0.049	0.27%
Cd 228.802†	11.7	0.0002 mg/L		0.00005	0.0002 mg/L	0.00005	27.31%
Co 228.616†	34.0	0.0004 mg/L		0.00008	0.0004 mg/L	0.00008	22.54%
Cr 267.716†	852.6	0.0073 mg/L		0.00014	0.0073 mg/L	0.00014	1.90%
Cu 327.393†	44.8	0.0003 mg/L		0.00014	0.0003 mg/L	0.00014	50.61%
Fe 238.204†	17.5	0.0081 mg/L		0.00111	0.0081 mg/L	0.00111	13.73%
K 766.490†	26277.8	8.758 mg/L		0.0272	8.758 mg/L	0.0272	0.31%
Mg 285.213†	74097.4	9.407 mg/L		0.0517	9.407 mg/L	0.0517	0.55%
Mn 257.610†	84.0	0.0037 mg/L		0.00026	0.0037 mg/L	0.00026	6.93%
Mo 202.031†	17.4	0.0008 mg/L		0.00009	0.0008 mg/L	0.00009	12.40%
Na 589.592†	262148.5	24.98 mg/L		0.066	24.98 mg/L	0.066	0.27%
Ni 231.604†	57.0	0.0016 mg/L		0.00018	0.0016 mg/L	0.00018	11.09%
Pb 220.353†	18.1	0.0016 mg/L		0.00033	0.0016 mg/L	0.00033	20.52%
Sb 206.836†	16.4	0.0026 mg/L		0.00025	0.0026 mg/L	0.00025	9.42%
Se 196.026†	11.2	0.0028 mg/L		0.00248	0.0028 mg/L	0.00248	90.22%
Sn 189.927†	-170.2	-0.0217 mg/L		0.00045	-0.0217 mg/L	0.00045	2.06%
Ti 337.279†	-4.0	-0.0002 mg/L		0.00028	-0.0002 mg/L	0.00028	119.65%
Tl 351.924†	-100.1	-0.0092 mg/L		0.00257	-0.0092 mg/L	0.00257	27.82%
V 290.880†	1076.7	0.0053 mg/L		0.00074	0.0053 mg/L	0.00074	13.86%
Zn 206.200†	68.1	-0.0010 mg/L		0.00013	-0.0010 mg/L	0.00013	12.92%
Zr 343.823†	51.4	0.0001 mg/L		0.00007	0.0001 mg/L	0.00007	53.98%

Sequence No.: 91

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/16/2024 7:09:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y axial	4729973.0	99.41 %	0.643			0.65%
Y radial	182248.1	103.8 %	0.64			0.61%
Ag 328.068†	573.8	0.0021 mg/L	0.00029	0.0021 mg/L	0.00029	13.52%
Al 396.153†	17.9	0.0050 mg/L	0.00235	0.0050 mg/L	0.00235	47.12%
As 188.979†	-7.5	-0.0026 mg/L	0.00048	-0.0026 mg/L	0.00048	18.80%
B 208.889†	-810.9	-0.0486 mg/L	0.00034	-0.0486 mg/L	0.00034	0.70%
Ba 233.527†	15.5	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	38.57%
Be 313.107†	-49.2	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	14.83%
Ca 317.933†	38.9	0.0061 mg/L	0.00087	0.0061 mg/L	0.00087	14.40%
Cd 228.802†	4.1	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	80.12%
Co 228.616†	3.6	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	180.24%
Cr 267.716†	-15.6	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	44.52%
Cu 327.393†	-186.0	-0.0012 mg/L	0.00032	-0.0012 mg/L	0.00032	26.81%
Fe 238.204†	2.0	0.0009 mg/L	0.00133	0.0009 mg/L	0.00133	140.22%
K 766.490†	8.0	0.0026 mg/L	0.02610	0.0026 mg/L	0.02610	985.16%
Mg 285.213†	12.7	0.0016 mg/L	0.00047	0.0016 mg/L	0.00047	29.15%
Mn 257.610†	3.0	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	101.50%
Mo 202.031†	2.0	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	60.19%
Na 589.592†	47.5	0.0045 mg/L	0.00424	0.0045 mg/L	0.00424	93.67%
Ni 231.604†	-12.1	-0.0003 mg/L	0.00005	-0.0003 mg/L	0.00005	15.72%
Pb 220.353†	-6.0	-0.0005 mg/L	0.00140	-0.0005 mg/L	0.00140	264.82%
Sb 206.836†	0.7	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	99.71%
Se 196.026†	0.8	0.0004 mg/L	0.00294	0.0004 mg/L	0.00294	666.14%
Sn 189.927†	0.4	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	166.37%
Ti 337.279†	-8.8	-0.0005 mg/L	0.00029	-0.0005 mg/L	0.00029	55.90%
Tl 351.924†	-34.6	-0.0032 mg/L	0.00323	-0.0032 mg/L	0.00323	101.14%
V 290.880†	195.1	0.0010 mg/L	0.00076	0.0010 mg/L	0.00076	79.12%
Zn 206.200†	-53.5	-0.0008 mg/L	0.00008	-0.0008 mg/L	0.00008	9.97%
Zr 343.823†	-51.1	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	23.12%

Sequence No.: 92

Sample ID: B371015-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 101

Date Collected: 4/16/2024 7:14:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371015-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4756105.2	99.96 %		1.548			1.55%
Y radial	185454.0	105.6 %		0.91			0.86%
Ag 328.068†	602.1	0.0022 mg/L		0.00008	0.0022 mg/L	0.00008	3.44%
Al 396.153†	24.1	0.0067 mg/L		0.00419	0.0067 mg/L	0.00419	62.98%
As 188.979†	-23.7	-0.0081 mg/L		0.00150	-0.0081 mg/L	0.00150	18.51%
B 208.889†	-748.8	-0.0450 mg/L		0.00063	-0.0450 mg/L	0.00063	1.40%
Ba 233.527†	13.0	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	29.30%
Be 313.107†	-130.9	-0.0003 mg/L		0.00002	-0.0003 mg/L	0.00002	5.50%
Ca 317.933†	344.2	0.0536 mg/L		0.00255	0.0536 mg/L	0.00255	4.75%
Cd 228.802†	42.2	0.0006 mg/L		0.00008	0.0006 mg/L	0.00008	13.34%
Co 228.616†	33.7	0.0004 mg/L		0.00004	0.0004 mg/L	0.00004	11.90%
Cr 267.716†	70.8	0.0006 mg/L		0.00012	0.0006 mg/L	0.00012	20.51%
Cu 327.393†	6626.1	0.0419 mg/L		0.01048	0.0419 mg/L	0.01048	25.05%
Fe 238.204†	23.2	0.0107 mg/L		0.00182	0.0107 mg/L	0.00182	16.94%
K 766.490†	79.3	0.0264 mg/L		0.01570	0.0264 mg/L	0.01570	59.36%
Mg 285.213†	52.1	0.0066 mg/L		0.00040	0.0066 mg/L	0.00040	6.01%
Mn 257.610†	48.8	0.0022 mg/L		0.00031	0.0022 mg/L	0.00031	14.17%
Mo 202.031†	25.8	0.0011 mg/L		0.00009	0.0011 mg/L	0.00009	8.23%
Na 589.592†	120.6	0.0115 mg/L		0.00447	0.0115 mg/L	0.00447	38.87%
Ni 231.604†	95.2	0.0026 mg/L		0.00014	0.0026 mg/L	0.00014	5.20%
Pb 220.353†	-17.7	-0.0016 mg/L		0.00045	-0.0016 mg/L	0.00045	27.61%
Sb 206.836†	17.2	0.0032 mg/L		0.00041	0.0032 mg/L	0.00041	12.73%
Se 196.026†	0.4	0.0002 mg/L		0.00180	0.0002 mg/L	0.00180	792.69%
Sn 189.927†	283.9	0.0362 mg/L		0.00049	0.0362 mg/L	0.00049	1.35%
Ti 337.279†	11.3	0.0007 mg/L		0.00032	0.0007 mg/L	0.00032	49.44%
Tl 351.924†	-56.5	-0.0052 mg/L		0.00186	-0.0052 mg/L	0.00186	35.76%
V 290.880†	202.6	0.0010 mg/L		0.00024	0.0010 mg/L	0.00024	23.55%
Zn 206.200†	37.9	0.0006 mg/L		0.00008	0.0006 mg/L	0.00008	13.83%

Zr 343.823† 236.0 0.0006 mg/L 0.00016 0.0006 mg/L 0.00016 26.91%

Sequence No.: 93

Sample ID: B371015-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 102

Date Collected: 4/16/2024 7:20:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371015-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4637172.6	97.46	%	0.723			0.74%
Y radial	181440.5	103.3	%	0.96			0.93%
Ag 328.068†	205158.3	0.7692	mg/L	0.00105	0.7692 mg/L	0.00105	0.14%
Al 396.153†	198754.5	55.21	mg/L	0.517	55.21 mg/L	0.517	0.94%
As 188.979†	7838.7	2.720	mg/L	0.0128	2.720 mg/L	0.0128	0.47%
B 208.889†	32707.8	1.897	mg/L	0.0071	1.897 mg/L	0.0071	0.38%
Ba 233.527†	448167.6	2.865	mg/L	0.0058	2.865 mg/L	0.0058	0.20%
Be 313.107†	637796.4	1.579	mg/L	0.0141	1.579 mg/L	0.0141	0.89%
Ca 317.933†	302563.7	47.11	mg/L	0.313	47.11 mg/L	0.313	0.67%
Cd 228.802†	207254.3	1.956	mg/L	0.0044	1.956 mg/L	0.0044	0.23%
Co 228.616†	69849.0	0.7482	mg/L	0.00218	0.7482 mg/L	0.00218	0.29%
Cr 267.716†	197423.2	1.680	mg/L	0.0040	1.680 mg/L	0.0040	0.24%
Cu 327.393†	310662.2	1.962	mg/L	0.0141	1.962 mg/L	0.0141	0.72%
Fe 238.204†	131117.0	60.60	mg/L	0.423	60.60 mg/L	0.423	0.70%
K 766.490†	34416.8	11.47	mg/L	0.098	11.47 mg/L	0.098	0.85%
Mg 285.213†	122485.4	15.59	mg/L	0.121	15.59 mg/L	0.121	0.78%
Mn 257.610†	113689.4	5.026	mg/L	0.0316	5.026 mg/L	0.0316	0.63%
Mo 202.031†	29761.7	1.289	mg/L	0.0052	1.289 mg/L	0.0052	0.40%
Na 589.592†	43425.7	4.138	mg/L	0.0393	4.138 mg/L	0.0393	0.95%
Ni 231.604†	101861.9	2.822	mg/L	0.0096	2.822 mg/L	0.0096	0.34%
Pb 220.353†	9457.6	0.8414	mg/L	0.00279	0.8414 mg/L	0.00279	0.33%
Sb 206.836†	5183.3	0.8982	mg/L	0.00297	0.8982 mg/L	0.00297	0.33%
Se 196.026†	2607.8	1.505	mg/L	0.0070	1.505 mg/L	0.0070	0.46%
Sn 189.927†	6218.7	0.7923	mg/L	0.00320	0.7923 mg/L	0.00320	0.40%
Ti 337.279†	54216.6	3.153	mg/L	0.0249	3.153 mg/L	0.0249	0.79%
Tl 351.924†	20202.5	1.887	mg/L	0.0067	1.887 mg/L	0.0067	0.35%
V 290.880†	202418.0	0.9970	mg/L	0.00180	0.9970 mg/L	0.00180	0.18%
Zn 206.200†	100060.4	1.534	mg/L	0.0013	1.534 mg/L	0.0013	0.08%
Zr 343.823†	27057.2	0.0668	mg/L	0.00027	0.0668 mg/L	0.00027	0.40%

Sequence No.: 94

Sample ID: B371015-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 103

Date Collected: 4/16/2024 7:25:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371015-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4697443.1	98.73	%	1.060			1.07%
Y radial	179637.2	102.3	%	1.99			1.95%
Ag 328.068†	199352.4	0.7473	mg/L	0.00082	0.7473 mg/L	0.00082	0.11%
Al 396.153†	191720.9	53.26	mg/L	0.155	53.26 mg/L	0.155	0.29%
As 188.979†	7561.5	2.623	mg/L	0.0418	2.623 mg/L	0.0418	1.59%
B 208.889†	31634.5	1.834	mg/L	0.0291	1.834 mg/L	0.0291	1.59%
Ba 233.527†	423818.2	2.709	mg/L	0.0042	2.709 mg/L	0.0042	0.16%
Be 313.107†	618975.5	1.533	mg/L	0.0081	1.533 mg/L	0.0081	0.53%
Ca 317.933†	296062.6	46.10	mg/L	0.224	46.10 mg/L	0.224	0.49%
Cd 228.802†	198666.1	1.875	mg/L	0.0029	1.875 mg/L	0.0029	0.16%
Co 228.616†	68375.3	0.7325	mg/L	0.00052	0.7325 mg/L	0.00052	0.07%
Cr 267.716†	193186.6	1.644	mg/L	0.0011	1.644 mg/L	0.0011	0.07%
Cu 327.393†	301609.4	1.905	mg/L	0.0036	1.905 mg/L	0.0036	0.19%
Fe 238.204†	122012.2	56.39	mg/L	0.237	56.39 mg/L	0.237	0.42%

K 766.490†	33291.0	11.09 mg/L	0.042	11.09 mg/L	0.042	0.38%
Mg 285.213†	118317.2	15.06 mg/L	0.077	15.06 mg/L	0.077	0.51%
Mn 257.610†	112348.6	4.967 mg/L	0.0222	4.967 mg/L	0.0222	0.45%
Mo 202.031†	29058.8	1.259 mg/L	0.0200	1.259 mg/L	0.0200	1.59%
Na 589.592†	41942.2	3.997 mg/L	0.0142	3.997 mg/L	0.0142	0.35%
Ni 231.604†	99757.3	2.764 mg/L	0.0078	2.764 mg/L	0.0078	0.28%
Pb 220.353†	9186.8	0.8174 mg/L	0.01268	0.8174 mg/L	0.01268	1.55%
Sb 206.836†	4923.3	0.8518 mg/L	0.01219	0.8518 mg/L	0.01219	1.43%
Se 196.026†	2510.3	1.449 mg/L	0.0233	1.449 mg/L	0.0233	1.61%
Sn 189.927†	5168.5	0.6585 mg/L	0.01117	0.6585 mg/L	0.01117	1.70%
Ti 337.279†	52259.0	3.039 mg/L	0.0199	3.039 mg/L	0.0199	0.65%
Tl 351.924†	18994.3	1.773 mg/L	0.0251	1.773 mg/L	0.0251	1.42%
V 290.880†	196167.1	0.9664 mg/L	0.00171	0.9664 mg/L	0.00171	0.18%
Zn 206.200†	96881.6	1.486 mg/L	0.0031	1.486 mg/L	0.0031	0.21%
Zr 343.823†	26549.0	0.0656 mg/L	0.00018	0.0656 mg/L	0.00018	0.28%

Sequence No.: 95

Sample ID: B371015-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 104

Date Collected: 4/16/2024 7:29:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371015-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4721223.2	99.23 %		1.798			1.81%
Y radial	186962.0	106.4 %		1.92			1.81%
Ag 328.068†	121549.0	0.4588 mg/L		0.00325	0.4588 mg/L	0.00325	0.71%
Al 396.153†	410474.3	114.1 mg/L		1.50	114.1 mg/L	1.50	1.32%
As 188.979†	1098.4	0.5093 mg/L		0.00746	0.5093 mg/L	0.00746	1.46%
B 208.889†	12961.4	0.7545 mg/L		0.00503	0.7545 mg/L	0.00503	0.67%
Ba 233.527†	193658.7	1.222 mg/L		0.0082	1.222 mg/L	0.0082	0.67%
Be 313.107†	187755.6	0.4630 mg/L		0.00429	0.4630 mg/L	0.00429	0.93%
Ca 317.933†	254507.6	39.63 mg/L		0.420	39.63 mg/L	0.420	1.06%
Cd 228.802†	47199.9	0.4517 mg/L		0.00293	0.4517 mg/L	0.00293	0.65%
Co 228.616†	47596.7	0.4939 mg/L		0.00324	0.4939 mg/L	0.00324	0.66%
Cr 267.716†	77195.0	0.6566 mg/L		0.00516	0.6566 mg/L	0.00516	0.79%
Cu 327.393†	168932.2	1.067 mg/L		0.0067	1.067 mg/L	0.0067	0.63%
Fe 238.204†	320559.7	148.1 mg/L		1.65	148.1 mg/L	1.65	1.11%
K 766.490†	106045.4	35.34 mg/L		0.279	35.34 mg/L	0.279	0.79%
Mg 285.213†	347273.0	44.22 mg/L		0.422	44.22 mg/L	0.422	0.95%
Mn 257.610†	56013.2	2.486 mg/L		0.0250	2.486 mg/L	0.0250	1.01%
Mo 202.031†	10462.7	0.4533 mg/L		0.00706	0.4533 mg/L	0.00706	1.56%
Na 589.592†	46815.3	4.461 mg/L		0.0368	4.461 mg/L	0.0368	0.83%
Ni 231.604†	20590.0	0.5705 mg/L		0.00533	0.5705 mg/L	0.00533	0.93%
Pb 220.353†	5598.1	0.5019 mg/L		0.00812	0.5019 mg/L	0.00812	1.62%
Sb 206.836†	1401.2	0.2475 mg/L		0.00509	0.2475 mg/L	0.00509	2.06%
Se 196.026†	779.8	0.4437 mg/L		0.00591	0.4437 mg/L	0.00591	1.33%
Sn 189.927†	3309.3	0.4216 mg/L		0.00729	0.4216 mg/L	0.00729	1.73%
Ti 337.279†	162630.8	9.457 mg/L		0.0789	9.457 mg/L	0.0789	0.83%
Tl 351.924†	3716.7	0.4037 mg/L		0.00537	0.4037 mg/L	0.00537	1.33%
V 290.880†	138953.6	0.6798 mg/L		0.00534	0.6798 mg/L	0.00534	0.79%
Zn 206.200†	83490.3	1.268 mg/L		0.0126	1.268 mg/L	0.0126	0.99%
Zr 343.823†	11077.4	0.0244 mg/L		0.00127	0.0244 mg/L	0.00127	5.22%

Sequence No.: 96

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 7:34:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

B, Na FAIL BRACKET NDC 4/17/24

Y axial	4683309.5	98.43 %	0.648			0.66%
Y radial	181995.8	103.6 %	0.73			0.71%
Ag 328.068†	635775.9	2.353 mg/L	0.0211	2.353 mg/L	0.0211	0.90%
QC value within limits for Ag 328.068		Recovery = 94.10%				
Al 396.153†	34878.1	9.444 mg/L	0.0811	9.444 mg/L	0.0811	0.86%
QC value within limits for Al 396.153		Recovery = 94.44%				
As 188.979†	13617.5	4.661 mg/L	0.0256	4.661 mg/L	0.0256	0.55%
QC value within limits for As 188.979		Recovery = 93.23%				
B 208.889†	78342.5	4.459 mg/L	0.0351	4.459 mg/L	0.0351	0.79%
QC value less than the lower limit for B 208.889		Recovery = 89.18%				
Ba 233.527†	751569.1	4.823 mg/L	0.0257	4.823 mg/L	0.0257	0.53%
QC value within limits for Ba 233.527		Recovery = 96.45%				
Be 313.107†	1906884.6	4.713 mg/L	0.0725	4.713 mg/L	0.0725	1.54%
QC value within limits for Be 313.107		Recovery = 94.26%				
Ca 317.933†	61844.4	9.630 mg/L	0.0800	9.630 mg/L	0.0800	0.83%
QC value within limits for Ca 317.933		Recovery = 96.30%				
Cd 228.802†	500891.1	4.777 mg/L	0.0314	4.777 mg/L	0.0314	0.66%
QC value within limits for Cd 228.802		Recovery = 95.53%				
Co 228.616†	446077.1	4.810 mg/L	0.0291	4.810 mg/L	0.0291	0.60%
QC value within limits for Co 228.616		Recovery = 96.20%				
Cr 267.716†	559018.2	4.762 mg/L	0.0216	4.762 mg/L	0.0216	0.45%
QC value within limits for Cr 267.716		Recovery = 95.24%				
Cu 327.393†	742120.5	4.704 mg/L	0.0196	4.704 mg/L	0.0196	0.42%
QC value within limits for Cu 327.393		Recovery = 94.09%				
Fe 238.204†	10721.7	4.980 mg/L	0.0557	4.980 mg/L	0.0557	1.12%
QC value within limits for Fe 238.204		Recovery = 99.60%				
K 766.490†	28387.3	9.461 mg/L	0.0918	9.461 mg/L	0.0918	0.97%
QC value within limits for K 766.490		Recovery = 94.61%				
Mg 285.213†	77029.7	9.762 mg/L	0.0942	9.762 mg/L	0.0942	0.97%
QC value within limits for Mg 285.213		Recovery = 97.62%				
Mn 257.610†	111565.3	4.928 mg/L	0.0379	4.928 mg/L	0.0379	0.77%
QC value within limits for Mn 257.610		Recovery = 98.56%				
Mo 202.031†	109883.4	4.760 mg/L	0.0346	4.760 mg/L	0.0346	0.73%
QC value within limits for Mo 202.031		Recovery = 95.21%				
Na 589.592†	94220.2	8.978 mg/L	0.1860	8.978 mg/L	0.1860	2.07%
QC value less than the lower limit for Na 589.592		Recovery = 89.78%				
Ni 231.604†	172332.3	4.776 mg/L	0.0198	4.776 mg/L	0.0198	0.42%
QC value within limits for Ni 231.604		Recovery = 95.51%				
Pb 220.353†	54157.4	4.802 mg/L	0.0260	4.802 mg/L	0.0260	0.54%
QC value within limits for Pb 220.353		Recovery = 96.03%				
Sb 206.836†	26568.9	4.667 mg/L	0.0278	4.667 mg/L	0.0278	0.60%
QC value within limits for Sb 206.836		Recovery = 93.35%				
Se 196.026†	8136.1	4.718 mg/L	0.0358	4.718 mg/L	0.0358	0.76%
QC value within limits for Se 196.026		Recovery = 94.37%				
Sn 189.927†	37457.6	4.768 mg/L	0.0247	4.768 mg/L	0.0247	0.52%
QC value within limits for Sn 189.927		Recovery = 95.35%				
Ti 337.279†	81886.7	4.759 mg/L	0.0433	4.759 mg/L	0.0433	0.91%
QC value within limits for Ti 337.279		Recovery = 95.18%				
Tl 351.924†	26075.8	2.364 mg/L	0.0213	2.364 mg/L	0.0213	0.90%
QC value within limits for Tl 351.924		Recovery = 94.56%				
V 290.880†	976321.1	4.826 mg/L	0.0329	4.826 mg/L	0.0329	0.68%
QC value within limits for V 290.880		Recovery = 96.52%				
Zn 206.200†	312166.5	4.794 mg/L	0.0192	4.794 mg/L	0.0192	0.40%
QC value within limits for Zn 206.200		Recovery = 95.89%				
Zr 343.823†	1874166.8	4.724 mg/L	0.0255	4.724 mg/L	0.0255	0.54%
QC Failed. Continue with analysis.						

B, Na FAIL BRACKET NDC 4/17/24

Sequence No.: 97

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 7:40:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4725612.0	99.32 %	0.428			0.43%

APPROVED

By NC at 11:01 am, Apr 17, 2024

Y radial	187137.1	106.5 %	4.15			3.90%
Ag 328.068†	1324.3	0.0050 mg/L	0.00078	0.0050 mg/L	0.00078	15.74%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-8.6	-0.0024 mg/L	0.00542	-0.0024 mg/L	0.00542	222.27%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-9.3	-0.0032 mg/L	0.00153	-0.0032 mg/L	0.00153	48.11%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	-544.3	-0.0327 mg/L	0.00057	-0.0327 mg/L	0.00057	1.74%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	24.6	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	28.28%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	-48.2	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	63.80%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	2.2	0.0003 mg/L	0.01014	0.0003 mg/L	0.01014	>999.9%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	13.0	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	47.20%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	3.0	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	323.82%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	-14.5	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	39.98%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	-207.1	-0.0013 mg/L	0.00019	-0.0013 mg/L	0.00019	14.79%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	2.8	0.0013 mg/L	0.00397	0.0013 mg/L	0.00397	304.16%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-52.4	-0.0175 mg/L	0.01834	-0.0175 mg/L	0.01834	105.02%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	5.5	0.0007 mg/L	0.00074	0.0007 mg/L	0.00074	105.13%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	5.6	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	40.75%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	35.4	0.0015 mg/L	0.00026	0.0015 mg/L	0.00026	16.96%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-122.2	-0.0116 mg/L	0.00447	-0.0116 mg/L	0.00447	38.42%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-4.8	-0.0001 mg/L	0.00022	-0.0001 mg/L	0.00022	173.23%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	21.0	0.0019 mg/L	0.00020	0.0019 mg/L	0.00020	10.68%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	5.1	0.0009 mg/L	0.00043	0.0009 mg/L	0.00043	47.64%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	2.7	0.0016 mg/L	0.00074	0.0016 mg/L	0.00074	47.43%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	1.5	0.0002 mg/L	0.00024	0.0002 mg/L	0.00024	122.36%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-3.2	-0.0002 mg/L	0.00054	-0.0002 mg/L	0.00054	294.62%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	-79.2	-0.0073 mg/L	0.00903	-0.0073 mg/L	0.00903	123.47%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	373.0	0.0018 mg/L	0.00038	0.0018 mg/L	0.00038	20.88%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	28.8	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	18.60%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	-7.9	-0.0000 mg/L	0.00010	-0.0000 mg/L	0.00010	482.15%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 98
Sample ID: B371015-PS1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 105
Date Collected: 4/16/2024 7:46:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371015-PS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4759355.8	100.0 %	1.44			1.44%
Y radial	186932.3	106.4 %	1.83			1.72%

Ag 328.068†	469987.0	1.765 mg/L	0.0049	1.765 mg/L	0.0049	0.28%
Al 396.153†	470762.1	130.8 mg/L	0.80	130.8 mg/L	0.80	0.61%
As 188.979†	4548.7	1.714 mg/L	0.0112	1.714 mg/L	0.0112	0.65%
B 208.889†	50640.4	2.950 mg/L	0.0133	2.950 mg/L	0.0133	0.45%
Ba 233.527†	463783.8	2.951 mg/L	0.0023	2.951 mg/L	0.0023	0.08%
Be 313.107†	731156.4	1.806 mg/L	0.0112	1.806 mg/L	0.0112	0.62%
Ca 317.933†	357444.5	55.66 mg/L	0.561	55.66 mg/L	0.561	1.01%
Cd 228.802†	177736.2	1.697 mg/L	0.0042	1.697 mg/L	0.0042	0.25%
Co 228.616†	161367.9	1.717 mg/L	0.0040	1.717 mg/L	0.0040	0.23%
Cr 267.716†	231427.2	1.970 mg/L	0.0016	1.970 mg/L	0.0016	0.08%
Cu 327.393†	585435.1	3.698 mg/L	0.0178	3.698 mg/L	0.0178	0.48%
Fe 238.204†	377861.2	174.6 mg/L	1.65	174.6 mg/L	1.65	0.94%
K 766.490†	163168.4	54.38 mg/L	0.362	54.38 mg/L	0.362	0.67%
Mg 285.213†	486857.9	61.97 mg/L	0.473	61.97 mg/L	0.473	0.76%
Mn 257.610†	111846.1	4.954 mg/L	0.0430	4.954 mg/L	0.0430	0.87%
Mo 202.031†	39914.7	1.729 mg/L	0.0127	1.729 mg/L	0.0127	0.73%
Na 589.592†	173370.6	16.52 mg/L	0.095	16.52 mg/L	0.095	0.57%
Ni 231.604†	64247.9	1.780 mg/L	0.0046	1.780 mg/L	0.0046	0.26%
Pb 220.353†	18912.3	1.680 mg/L	0.0135	1.680 mg/L	0.0135	0.80%
Sb 206.836†	9491.3	1.670 mg/L	0.0087	1.670 mg/L	0.0087	0.52%
Se 196.026†	2907.9	1.674 mg/L	0.0084	1.674 mg/L	0.0084	0.50%
Sn 189.927†	12740.1	1.623 mg/L	0.0143	1.623 mg/L	0.0143	0.88%
Ti 337.279†	213982.8	12.44 mg/L	0.090	12.44 mg/L	0.090	0.72%
Tl 351.924†	17437.7	1.670 mg/L	0.0100	1.670 mg/L	0.0100	0.60%
V 290.880†	408268.9	2.010 mg/L	0.0060	2.010 mg/L	0.0060	0.30%
Zn 206.200†	245835.8	3.749 mg/L	0.0163	3.749 mg/L	0.0163	0.44%
Zr 343.823†	10459.2	0.0222 mg/L	0.00170	0.0222 mg/L	0.00170	7.67%

Sequence No.: 99

Sample ID: B371015-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 106

Date Collected: 4/16/2024 7:50:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371015-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4732821.3	99.47	%	0.593				0.60%
Y radial	186655.6	106.3	%	0.64				0.60%
Ag 328.068†	-2659.5	-0.0061	mg/L	0.00035	-0.0061	mg/L	0.00035	5.78%
Al 396.153†	448910.0	124.8	mg/L	0.61	124.8	mg/L	0.61	0.49%
As 188.979†	-185.0	0.0854	mg/L	0.00469	0.0854	mg/L	0.00469	5.49%
B 208.889†	-291.8	-0.0174	mg/L	0.00196	-0.0174	mg/L	0.00196	11.30%
Ba 233.527†	137067.2	0.8574	mg/L	0.01383	0.8574	mg/L	0.01383	1.61%
Be 313.107†	2024.9	0.0038	mg/L	0.00010	0.0038	mg/L	0.00010	2.71%
Ca 317.933†	261078.3	40.65	mg/L	0.244	40.65	mg/L	0.244	0.60%
Cd 228.802†	-38.4	0.0011	mg/L	0.00018	0.0011	mg/L	0.00018	16.29%
Co 228.616†	6927.1	0.0526	mg/L	0.00010	0.0526	mg/L	0.00010	0.19%
Cr 267.716†	28074.5	0.2382	mg/L	0.00461	0.2382	mg/L	0.00461	1.93%
Cu 327.393†	19620.0	0.1240	mg/L	0.00285	0.1240	mg/L	0.00285	2.30%
Fe 238.204†	342433.9	158.2	mg/L	0.83	158.2	mg/L	0.83	0.53%
K 766.490†	110589.1	36.86	mg/L	0.199	36.86	mg/L	0.199	0.54%
Mg 285.213†	367135.1	46.75	mg/L	0.219	46.75	mg/L	0.219	0.47%
Mn 257.610†	47020.3	2.089	mg/L	0.0125	2.089	mg/L	0.0125	0.60%
Mo 202.031†	-60.0	-0.0026	mg/L	0.00033	-0.0026	mg/L	0.00033	12.65%
Na 589.592†	14425.9	1.375	mg/L	0.0038	1.375	mg/L	0.0038	0.28%
Ni 231.604†	5178.6	0.1436	mg/L	0.00052	0.1436	mg/L	0.00052	0.36%
Pb 220.353†	707.1	0.0701	mg/L	0.00115	0.0701	mg/L	0.00115	1.65%
Sb 206.836†	6.6	0.0045	mg/L	0.00080	0.0045	mg/L	0.00080	17.80%
Se 196.026†	16.0	0.0005	mg/L	0.00302	0.0005	mg/L	0.00302	669.31%
Sn 189.927†	-104.2	-0.0133	mg/L	0.00093	-0.0133	mg/L	0.00093	6.97%
Ti 337.279†	176067.8	10.24	mg/L	0.049	10.24	mg/L	0.049	0.47%
Tl 351.924†	-1217.9	-0.0454	mg/L	0.00781	-0.0454	mg/L	0.00781	17.22%
V 290.880†	51695.5	0.2482	mg/L	0.00477	0.2482	mg/L	0.00477	1.92%
Zn 206.200†	28480.4	0.4260	mg/L	0.00488	0.4260	mg/L	0.00488	1.15%
Zr 343.823†	8109.9	0.0167	mg/L	0.00037	0.0167	mg/L	0.00037	2.23%

Sequence No.: 100
 Sample ID: 24D0979-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 107
 Date Collected: 4/16/2024 7:55:34 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D0979-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4743220.1	99.69 %		0.718			0.72%
Y radial	188451.1	107.3 %		0.52			0.49%
Ag 328.068†	-2882.0	-0.0070 mg/L		0.00030	-0.0070 mg/L	0.00030	4.28%
Al 396.153†	478542.1	133.1 mg/L		2.97	133.1 mg/L	2.97	2.23%
As 188.979†	-201.4	0.0873 mg/L		0.00466	0.0873 mg/L	0.00466	5.34%
B 208.889†	-454.2	-0.0271 mg/L		0.00093	-0.0271 mg/L	0.00093	3.42%
Ba 233.527†	199606.6	1.257 mg/L		0.0053	1.257 mg/L	0.0053	0.42%
Be 313.107†	2108.3	0.0040 mg/L		0.00011	0.0040 mg/L	0.00011	2.75%
Ca 317.933†	272169.7	42.38 mg/L		0.737	42.38 mg/L	0.737	1.74%
Cd 228.802†	-42.8	0.0012 mg/L		0.00009	0.0012 mg/L	0.00009	7.44%
Co 228.616†	7702.6	0.0599 mg/L		0.00059	0.0599 mg/L	0.00059	0.98%
Cr 267.716†	29474.5	0.2497 mg/L		0.00159	0.2497 mg/L	0.00159	0.64%
Cu 327.393†	20085.8	0.1269 mg/L		0.00076	0.1269 mg/L	0.00076	0.60%
Fe 238.204†	358532.1	165.7 mg/L		2.84	165.7 mg/L	2.84	1.72%
K 766.490†	117846.4	39.27 mg/L		0.855	39.27 mg/L	0.855	2.18%
Mg 285.213†	386504.8	49.22 mg/L		0.941	49.22 mg/L	0.941	1.91%
Mn 257.610†	72596.8	3.219 mg/L		0.0145	3.219 mg/L	0.0145	0.45%
Mo 202.031†	-59.4	-0.0026 mg/L		0.00037	-0.0026 mg/L	0.00037	14.41%
Na 589.592†	15920.6	1.517 mg/L		0.0034	1.517 mg/L	0.0034	0.22%
Ni 231.604†	5416.0	0.1502 mg/L		0.00075	0.1502 mg/L	0.00075	0.50%
Pb 220.353†	769.9	0.0761 mg/L		0.00121	0.0761 mg/L	0.00121	1.59%
Sb 206.836†	0.7	0.0036 mg/L		0.00045	0.0036 mg/L	0.00045	12.55%
Se 196.026†	8.1	-0.0048 mg/L		0.00471	-0.0048 mg/L	0.00471	97.84%
Sn 189.927†	-116.7	-0.0149 mg/L		0.00082	-0.0149 mg/L	0.00082	5.53%
Ti 337.279†	185417.0	10.78 mg/L		0.217	10.78 mg/L	0.217	2.02%
Tl 351.924†	-1429.4	-0.0619 mg/L		0.00335	-0.0619 mg/L	0.00335	5.41%
V 290.880†	53951.6	0.2591 mg/L		0.00198	0.2591 mg/L	0.00198	0.76%
Zn 206.200†	29829.3	0.4462 mg/L		0.00342	0.4462 mg/L	0.00342	0.77%
Zr 343.823†	9066.5	0.0189 mg/L		0.00022	0.0189 mg/L	0.00022	1.18%

Sequence No.: 101
 Sample ID: 24D1075-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 108
 Date Collected: 4/16/2024 8:00:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: 24D1075-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4616662.0	97.03 %		0.782			0.81%
Y radial	180175.4	102.6 %		1.27			1.23%
Ag 328.068†	-4631.7	-0.0092 mg/L		0.00041	-0.0092 mg/L	0.00041	4.50%
Al 396.153†	594920.4	165.4 mg/L		0.97	165.4 mg/L	0.97	0.59%
As 188.979†	-357.9	0.0494 mg/L		0.00288	0.0494 mg/L	0.00288	5.82%
B 208.889†	983.5	0.0593 mg/L		0.00138	0.0593 mg/L	0.00138	2.33%
Ba 233.527†	230899.2	1.444 mg/L		0.0073	1.444 mg/L	0.0073	0.51%
Be 313.107†	3507.8	0.0039 mg/L		0.00017	0.0039 mg/L	0.00017	4.41%
Ca 317.933†	1307786.6	203.6 mg/L		1.55	203.6 mg/L	1.55	0.76%
Cd 228.802†	287.5	0.0078 mg/L		0.00014	0.0078 mg/L	0.00014	1.84%
Co 228.616†	14134.3	0.1340 mg/L		0.00095	0.1340 mg/L	0.00095	0.71%
Cr 267.716†	18706.5	0.1572 mg/L		0.00115	0.1572 mg/L	0.00115	0.73%
Cu 327.393†	109883.7	0.6944 mg/L		0.00287	0.6944 mg/L	0.00287	0.41%
Fe 238.204†	605464.6	279.8 mg/L		2.25	279.8 mg/L	2.25	0.81%
K 766.490†	52007.3	17.33 mg/L		0.102	17.33 mg/L	0.102	0.59%
Mg 285.213†	579962.0	73.84 mg/L		0.540	73.84 mg/L	0.540	0.73%

Mn 257.610†	135866.0	6.023 mg/L	0.0363	6.023 mg/L	0.0363	0.60%
Mo 202.031†	-158.2	-0.0069 mg/L	0.00039	-0.0069 mg/L	0.00039	5.64%
Na 589.592†	100366.9	9.564 mg/L	0.0562	9.564 mg/L	0.0562	0.59%
Ni 231.604†	6923.0	0.1920 mg/L	0.00148	0.1920 mg/L	0.00148	0.77%
Pb 220.353†	20590.5	1.832 mg/L	0.0117	1.832 mg/L	0.0117	0.64%
Sb 206.836†	-1.3	0.0121 mg/L	0.00070	0.0121 mg/L	0.00070	5.79%
Se 196.026†	14.4	-0.0196 mg/L	0.00197	-0.0196 mg/L	0.00197	10.02%
Sn 189.927†	19.8	0.0024 mg/L	0.00135	0.0024 mg/L	0.00135	55.80%
Ti 337.279†	147277.8	8.564 mg/L	0.0682	8.564 mg/L	0.0682	0.80%
Tl 351.924†	-1742.4	-0.0123 mg/L	0.00191	-0.0123 mg/L	0.00191	15.53%
V 290.880†	202611.3	0.9847 mg/L	0.00475	0.9847 mg/L	0.00475	0.48%
Zn 206.200†	95135.0	1.435 mg/L	0.0088	1.435 mg/L	0.0088	0.62%
Zr 343.823†	40425.1	0.0952 mg/L	0.00030	0.0952 mg/L	0.00030	0.32%

Sequence No.: 102

Sample ID: 24D1075-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 109

Date Collected: 4/16/2024 8:04:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1075-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4636253.3	97.44 %		0.845			0.87%
Y radial	184211.4	104.9 %		0.54			0.51%
Ag 328.068†	-3865.7	-0.0080 mg/L		0.00034	-0.0080 mg/L	0.00034	4.30%
Al 396.153†	520747.5	144.8 mg/L		0.58	144.8 mg/L	0.58	0.40%
As 188.979†	-297.8	0.0690 mg/L		0.00405	0.0690 mg/L	0.00405	5.87%
B 208.889†	758.8	0.0458 mg/L		0.00135	0.0458 mg/L	0.00135	2.95%
Ba 233.527†	304386.3	1.914 mg/L		0.0066	1.914 mg/L	0.0066	0.34%
Be 313.107†	3052.8	0.0044 mg/L		0.00011	0.0044 mg/L	0.00011	2.54%
Ca 317.933†	1208125.7	188.1 mg/L		0.92	188.1 mg/L	0.92	0.49%
Cd 228.802†	477.6	0.0091 mg/L		0.00010	0.0091 mg/L	0.00010	1.07%
Co 228.616†	12060.7	0.1118 mg/L		0.00060	0.1118 mg/L	0.00060	0.54%
Cr 267.716†	28302.7	0.2385 mg/L		0.00131	0.2385 mg/L	0.00131	0.55%
Cu 327.393†	174244.8	1.101 mg/L		0.0038	1.101 mg/L	0.0038	0.34%
Fe 238.204†	606481.2	280.3 mg/L		1.54	280.3 mg/L	1.54	0.55%
K 766.490†	45050.8	15.01 mg/L		0.030	15.01 mg/L	0.030	0.20%
Mg 285.213†	515281.3	65.63 mg/L		0.359	65.63 mg/L	0.359	0.55%
Mn 257.610†	146046.3	6.472 mg/L		0.0318	6.472 mg/L	0.0318	0.49%
Mo 202.031†	-140.5	-0.0061 mg/L		0.00024	-0.0061 mg/L	0.00024	3.87%
Na 589.592†	62154.5	5.923 mg/L		0.0282	5.923 mg/L	0.0282	0.48%
Ni 231.604†	6683.4	0.1853 mg/L		0.00103	0.1853 mg/L	0.00103	0.55%
Pb 220.353†	37373.3	3.316 mg/L		0.0194	3.316 mg/L	0.0194	0.58%
Sb 206.836†	17.6	0.0136 mg/L		0.00082	0.0136 mg/L	0.00082	6.05%
Se 196.026†	16.1	-0.0155 mg/L		0.00257	-0.0155 mg/L	0.00257	16.56%
Sn 189.927†	605.6	0.0771 mg/L		0.00087	0.0771 mg/L	0.00087	1.12%
Ti 337.279†	146568.8	8.523 mg/L		0.0420	8.523 mg/L	0.0420	0.49%
Tl 351.924†	-1798.9	-0.0156 mg/L		0.00178	-0.0156 mg/L	0.00178	11.39%
V 290.880†	132179.8	0.6365 mg/L		0.00329	0.6365 mg/L	0.00329	0.52%
Zn 206.200†	177644.5	2.696 mg/L		0.0022	2.696 mg/L	0.0022	0.08%
Zr 343.823†	42702.9	0.1010 mg/L		0.00062	0.1010 mg/L	0.00062	0.62%

Sequence No.: 103

Sample ID: 24D1075-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 110

Date Collected: 4/16/2024 8:09:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1075-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4637159.4	97.46 %		1.447			1.48%
Y radial	180676.7	102.9 %		1.42			1.38%

Ag 328.068†	-3445.9	-0.0073 mg/L	0.00032	-0.0073 mg/L	0.00032	4.37%
Al 396.153†	449449.9	125.0 mg/L	0.46	125.0 mg/L	0.46	0.37%
As 188.979†	-36.7	0.1442 mg/L	0.00192	0.1442 mg/L	0.00192	1.33%
B 208.889†	6435.5	0.3863 mg/L	0.00489	0.3863 mg/L	0.00489	1.27%
Ba 233.527†	522370.9	3.311 mg/L	0.0132	3.311 mg/L	0.0132	0.40%
Be 313.107†	3372.6	0.0054 mg/L	0.00022	0.0054 mg/L	0.00022	4.07%
Ca 317.933†	871399.5	135.7 mg/L	0.05	135.7 mg/L	0.05	0.04%
Cd 228.802†	483.0	0.0072 mg/L	0.00020	0.0072 mg/L	0.00020	2.73%
Co 228.616†	11148.3	0.1042 mg/L	0.00143	0.1042 mg/L	0.00143	1.37%
Cr 267.716†	22540.8	0.1883 mg/L	0.00246	0.1883 mg/L	0.00246	1.31%
Cu 327.393†	152815.0	0.9655 mg/L	0.00658	0.9655 mg/L	0.00658	0.68%
Fe 238.204†	582596.5	269.2 mg/L	0.43	269.2 mg/L	0.43	0.16%
K 766.490†	45095.5	15.03 mg/L	0.036	15.03 mg/L	0.036	0.24%
Mg 285.213†	422022.0	53.79 mg/L	0.090	53.79 mg/L	0.090	0.17%
Mn 257.610†	207901.4	9.204 mg/L	0.0048	9.204 mg/L	0.0048	0.05%
Mo 202.031†	-160.8	-0.0070 mg/L	0.00002	-0.0070 mg/L	0.00002	0.35%
Na 589.592†	32217.8	3.070 mg/L	0.0157	3.070 mg/L	0.0157	0.51%
Ni 231.604†	6207.8	0.1722 mg/L	0.00236	0.1722 mg/L	0.00236	1.37%
Pb 220.353†	41420.8	3.673 mg/L	0.0469	3.673 mg/L	0.0469	1.28%
Sb 206.836†	38.5	0.0177 mg/L	0.00098	0.0177 mg/L	0.00098	5.54%
Se 196.026†	18.2	-0.0077 mg/L	0.00536	-0.0077 mg/L	0.00536	69.60%
Sn 189.927†	756.0	0.0962 mg/L	0.00021	0.0962 mg/L	0.00021	0.22%
Ti 337.279†	129939.9	7.556 mg/L	0.0270	7.556 mg/L	0.0270	0.36%
Tl 351.924†	-1718.6	-0.0119 mg/L	0.00298	-0.0119 mg/L	0.00298	25.14%
V 290.880†	123221.0	0.5927 mg/L	0.00179	0.5927 mg/L	0.00179	0.30%
Zn 206.200†	170634.1	2.590 mg/L	0.0117	2.590 mg/L	0.0117	0.45%
Zr 343.823†	33001.3	0.0768 mg/L	0.00054	0.0768 mg/L	0.00054	0.70%

Sequence No.: 104

Sample ID: 24D1075-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 111

Date Collected: 4/16/2024 8:14:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1075-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4767322.9	100.2	%	1.35				1.34%
Y radial	187932.1	107.0	%	0.87				0.81%
Ag 328.068†	-3783.6	-0.0066	mg/L	0.00010	-0.0066	mg/L	0.00010	1.47%
Al 396.153†	475179.0	132.1	mg/L	0.95	132.1	mg/L	0.95	0.72%
As 188.979†	442.7	0.3182	mg/L	0.00223	0.3182	mg/L	0.00223	0.70%
B 208.889†	418.3	0.0253	mg/L	0.00164	0.0253	mg/L	0.00164	6.47%
Ba 233.527†	693895.4	4.405	mg/L	0.0205	4.405	mg/L	0.0205	0.47%
Be 313.107†	3621.1	0.0055	mg/L	0.00018	0.0055	mg/L	0.00018	3.31%
Ca 317.933†	578613.1	90.10	mg/L	0.405	90.10	mg/L	0.405	0.45%
Cd 228.802†	872.0	0.0080	mg/L	0.00010	0.0080	mg/L	0.00010	1.25%
Co 228.616†	12138.8	0.1154	mg/L	0.00110	0.1154	mg/L	0.00110	0.95%
Cr 267.716†	30805.6	0.2598	mg/L	0.00275	0.2598	mg/L	0.00275	1.06%
Cu 327.393†	290208.3	1.833	mg/L	0.0070	1.833	mg/L	0.0070	0.38%
Fe 238.204†	675027.6	311.9	mg/L	1.75	311.9	mg/L	1.75	0.56%
K 766.490†	45788.9	15.26	mg/L	0.143	15.26	mg/L	0.143	0.94%
Mg 285.213†	380978.9	48.62	mg/L	0.279	48.62	mg/L	0.279	0.57%
Mn 257.610†	151097.3	6.698	mg/L	0.0380	6.698	mg/L	0.0380	0.57%
Mo 202.031†	-103.2	-0.0045	mg/L	0.00044	-0.0045	mg/L	0.00044	9.84%
Na 589.592†	33402.2	3.183	mg/L	0.0240	3.183	mg/L	0.0240	0.75%
Ni 231.604†	7530.4	0.2088	mg/L	0.00279	0.2088	mg/L	0.00279	1.34%
Pb 220.353†	46356.7	4.108	mg/L	0.0181	4.108	mg/L	0.0181	0.44%
Sb 206.836†	81.7	0.0276	mg/L	0.00160	0.0276	mg/L	0.00160	5.78%
Se 196.026†	20.2	0.0013	mg/L	0.00645	0.0013	mg/L	0.00645	504.23%
Sn 189.927†	2739.3	0.3489	mg/L	0.00425	0.3489	mg/L	0.00425	1.22%
Ti 337.279†	126877.3	7.378	mg/L	0.0436	7.378	mg/L	0.0436	0.59%
Tl 351.924†	-2060.8	-0.0155	mg/L	0.00284	-0.0155	mg/L	0.00284	18.31%
V 290.880†	145575.1	0.7000	mg/L	0.00483	0.7000	mg/L	0.00483	0.69%
Zn 206.200†	147426.5	2.233	mg/L	0.0119	2.233	mg/L	0.0119	0.53%
Zr 343.823†	34485.1	0.0795	mg/L	0.00055	0.0795	mg/L	0.00055	0.70%

Sequence No.: 105
 Sample ID: RINSE
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 7
 Date Collected: 4/16/2024 8:18:40 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4678613.2	98.33 %	1.780			1.81%
Y radial	182246.2	103.8 %	0.12			0.12%
Ag 328.068†	715.3	0.0027 mg/L	0.00014	0.0027 mg/L	0.00014	5.34%
Al 396.153†	35.2	0.0098 mg/L	0.00452	0.0098 mg/L	0.00452	46.21%
As 188.979†	-6.4	-0.0022 mg/L	0.00127	-0.0022 mg/L	0.00127	58.20%
B 208.889†	-747.4	-0.0448 mg/L	0.00060	-0.0448 mg/L	0.00060	1.33%
Ba 233.527†	29.1	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	59.33%
Be 313.107†	-56.4	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	13.39%
Cd 317.933†	61.6	0.0096 mg/L	0.00212	0.0096 mg/L	0.00212	22.07%
Ce 228.802†	1.1	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	59.05%
Co 228.616†	-5.1	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	74.48%
Cr 267.716†	-12.0	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	79.03%
Cu 327.393†	-335.6	-0.0021 mg/L	0.00021	-0.0021 mg/L	0.00021	9.70%
Fe 238.204†	40.6	0.0188 mg/L	0.00525	0.0188 mg/L	0.00525	27.95%
K 766.490†	57.5	0.0192 mg/L	0.01908	0.0192 mg/L	0.01908	99.58%
Mg 285.213†	26.7	0.0034 mg/L	0.00079	0.0034 mg/L	0.00079	23.11%
Mn 257.610†	15.0	0.0007 mg/L	0.00038	0.0007 mg/L	0.00038	56.44%
Mo 202.031†	5.3	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	59.35%
Na 589.592†	-135.3	-0.0129 mg/L	0.00396	-0.0129 mg/L	0.00396	30.71%
Ni 231.604†	1.2	0.0000 mg/L	0.00024	0.0000 mg/L	0.00024	633.84%
Pb 220.353†	34.9	0.0031 mg/L	0.00031	0.0031 mg/L	0.00031	9.97%
Sb 206.836†	5.8	0.0010 mg/L	0.00029	0.0010 mg/L	0.00029	27.79%
Se 196.026†	-0.7	-0.0004 mg/L	0.00034	-0.0004 mg/L	0.00034	84.39%
Sn 189.927†	-3.8	-0.0005 mg/L	0.00038	-0.0005 mg/L	0.00038	79.74%
Ti 337.279†	12.7	0.0007 mg/L	0.00033	0.0007 mg/L	0.00033	45.13%
Tl 351.924†	-44.8	-0.0041 mg/L	0.00579	-0.0041 mg/L	0.00579	140.28%
V 290.880†	467.9	0.0023 mg/L	0.00057	0.0023 mg/L	0.00057	24.66%
Zn 206.200†	-9.4	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	53.39%
Zr 343.823†	-2.1	-0.0000 mg/L	0.00014	-0.0000 mg/L	0.00014	>999.9%

Sequence No.: 106
 Sample ID: SEQ-IFA@ 23I0975
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 11
 Date Collected: 4/16/2024 8:24:09 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4288947.2	90.14 %	0.943			1.05%
Y radial	173197.5	98.60 %	0.874			0.89%
Ag 328.068†	-1069.9	-0.0018 mg/L	0.00011	-0.0018 mg/L	0.00011	5.77%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	918690.3	255.4 mg/L	1.24	255.4 mg/L	1.24	0.49%
QC value within limits for Al 396.153 Recovery = 102.17%						
As 188.979†	-111.6	-0.0029 mg/L	0.00391	-0.0029 mg/L	0.00391	133.09%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	-850.5	-0.0508 mg/L	0.00042	-0.0508 mg/L	0.00042	0.84%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	1496.2	-0.0037 mg/L	0.00011	-0.0037 mg/L	0.00011	2.97%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-8.3	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	16.06%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	1587531.0	247.2 mg/L	1.39	247.2 mg/L	1.39	0.56%
QC value within limits for Ca 317.933 Recovery = 98.88%						

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By NC at 11:01 am, Apr 17, 2024

Cd 228.802†	-129.6	0.0009 mg/L	0.00003	0.0009 mg/L	0.00003	3.12%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-66.6	-0.0007 mg/L	0.00009	-0.0007 mg/L	0.00009	12.56%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	279.5	0.0024 mg/L	0.00004	0.0024 mg/L	0.00004	1.80%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-1070.2	-0.0067 mg/L	0.00012	-0.0067 mg/L	0.00012	1.72%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	216635.2	100.1 mg/L	0.51	100.1 mg/L	0.51	0.51%
QC value within limits for Fe 238.204 Recovery = 100.11%						
K 766.490†	-18.7	-0.0062 mg/L	0.00274	-0.0062 mg/L	0.00274	44.06%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1850709.2	235.1 mg/L	1.32	235.1 mg/L	1.32	0.56%
QC value within limits for Mg 285.213 Recovery = 94.04%						
Mn 257.610†	-76.2	0.0044 mg/L	0.00026	0.0044 mg/L	0.00026	5.81%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-90.1	-0.0039 mg/L	0.00027	-0.0039 mg/L	0.00027	6.92%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	319.3	0.0304 mg/L	0.00186	0.0304 mg/L	0.00186	6.11%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	238.1	0.0066 mg/L	0.00037	0.0066 mg/L	0.00037	5.60%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-260.6	0.0055 mg/L	0.00066	0.0055 mg/L	0.00066	11.95%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	31.9	0.0099 mg/L	0.00123	0.0099 mg/L	0.00123	12.44%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	68.3	-0.0292 mg/L	0.00366	-0.0292 mg/L	0.00366	12.52%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-547.5	-0.0698 mg/L	0.00184	-0.0698 mg/L	0.00184	2.63%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	27.3	0.0016 mg/L	0.00027	0.0016 mg/L	0.00027	17.04%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-742.6	-0.0034 mg/L	0.00178	-0.0034 mg/L	0.00178	51.94%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	1443.0	-0.0001 mg/L	0.00027	-0.0001 mg/L	0.00027	203.55%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	188.7	-0.0041 mg/L	0.00009	-0.0041 mg/L	0.00009	2.11%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	1103.1	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	16.55%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 107

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/16/2024 8:29:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Sample Units	Std.Dev.	RSD
Y axial	4266012.6	89.66 %		0.507			0.57%
Y radial	171547.6	97.66 %		1.234			1.26%
Ag 328.068†	100401.6	0.3808 mg/L		0.00799	0.3808 mg/L	0.00799	2.10%
QC value within limits for Ag 328.068 Recovery = 95.20%							
Al 396.153†	883906.2	245.8 mg/L		2.75	245.8 mg/L	2.75	1.12%
QC value within limits for Al 396.153 Recovery = 98.30%							
As 188.979†	461.6	0.1879 mg/L		0.00373	0.1879 mg/L	0.00373	1.98%
QC value within limits for As 188.979 Recovery = 93.97%							
B 208.889†	-873.1	-0.0521 mg/L		0.00056	-0.0521 mg/L	0.00056	1.07%
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	152366.3	0.9645 mg/L		0.00798	0.9645 mg/L	0.00798	0.83%
QC value within limits for Ba 233.527 Recovery = 96.45%							
Be 313.107†	404965.3	1.001 mg/L		0.0122	1.001 mg/L	0.0122	1.22%
QC value within limits for Be 313.107 Recovery = 100.10%							
Ca 317.933†	1551974.8	241.7 mg/L		3.18	241.7 mg/L	3.18	1.32%
QC value within limits for Ca 317.933 Recovery = 96.67%							
Cd 228.802†	203908.0	1.981 mg/L		0.0161	1.981 mg/L	0.0161	0.81%

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By NC at 11:01 am, Apr 17, 2024

QC value within limits for Cd 228.802	Recovery = 99.04%					
Co 228.616†	81999.2	0.8828 mg/L	0.00703	0.8828 mg/L	0.00703	0.80%
QC value within limits for Co 228.616	Recovery = 88.28%					
Cr 267.716†	109920.2	0.9365 mg/L	0.00718	0.9365 mg/L	0.00718	0.77%
QC value within limits for Cr 267.716	Recovery = 93.65%					
Cu 327.393†	152170.8	0.9611 mg/L	0.00993	0.9611 mg/L	0.00993	1.03%
QC value within limits for Cu 327.393	Recovery = 96.11%					
Fe 238.204†	211320.0	97.66 mg/L	1.374	97.66 mg/L	1.374	1.41%
QC value within limits for Fe 238.204	Recovery = 97.66%					
K 766.490†	54.8	0.0183 mg/L	0.00605	0.0183 mg/L	0.00605	33.14%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1809491.1	229.9 mg/L	2.85	229.9 mg/L	2.85	1.24%
QC value within limits for Mg 285.213	Recovery = 91.95%					
Mn 257.610†	21701.8	0.9662 mg/L	0.01328	0.9662 mg/L	0.01328	1.37%
QC value within limits for Mn 257.610	Recovery = 96.62%					
Mo 202.031†	-102.2	-0.0044 mg/L	0.00014	-0.0044 mg/L	0.00014	3.18%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	378.2	0.0360 mg/L	0.00050	0.0360 mg/L	0.00050	1.38%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	63074.9	1.748 mg/L	0.0129	1.748 mg/L	0.0129	0.74%
QC value within limits for Ni 231.604	Recovery = 87.42%					
Pb 220.353†	758.6	0.0938 mg/L	0.00179	0.0938 mg/L	0.00179	1.91%
QC value within limits for Pb 220.353	Recovery = 93.83%					
Sb 206.836†	6156.9	1.079 mg/L	0.0070	1.079 mg/L	0.0070	0.65%
QC value within limits for Sb 206.836	Recovery = 89.88%					
Se 196.026†	924.1	0.4683 mg/L	0.00603	0.4683 mg/L	0.00603	1.29%
QC value within limits for Se 196.026	Recovery = 93.66%					
Sn 189.927†	-549.4	-0.0700 mg/L	0.00174	-0.0700 mg/L	0.00174	2.48%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	19.1	0.0011 mg/L	0.00027	0.0011 mg/L	0.00027	24.18%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	1559.4	0.2030 mg/L	0.00077	0.2030 mg/L	0.00077	0.38%
QC value within limits for Tl 351.924	Recovery = 101.52%					
V 290.880†	196294.1	0.9632 mg/L	0.00780	0.9632 mg/L	0.00780	0.81%
QC value within limits for V 290.880	Recovery = 96.32%					
Zn 206.200†	117336.9	1.792 mg/L	0.0128	1.792 mg/L	0.0128	0.71%
QC value within limits for Zn 206.200	Recovery = 89.59%					
Zr 343.823†	1145.3	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	9.45%
All analyte(s) passed QC.						

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 108

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 8:35:08 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4561384.9	95.87 %	0.669			0.70%
Y radial	180114.5	102.5 %	0.91			0.89%
Ag 328.068†	676600.8	2.505 mg/L	0.0158	2.505 mg/L	0.0158	0.63%
QC value within limits for Ag 328.068	Recovery = 100.18%					
Al 396.153†	35733.4	9.673 mg/L	0.0395	9.673 mg/L	0.0395	0.41%
QC value within limits for Al 396.153	Recovery = 96.73%					
As 188.979†	14523.1	4.971 mg/L	0.0609	4.971 mg/L	0.0609	1.22%
QC value within limits for As 188.979	Recovery = 99.43%					
B 208.889†	82133.8	4.678 mg/L	0.0358	4.678 mg/L	0.0358	0.76%
QC value within limits for B 208.889	Recovery = 93.56%					
Ba 233.527†	784330.8	5.033 mg/L	0.0323	5.033 mg/L	0.0323	0.64%
QC value within limits for Ba 233.527	Recovery = 100.66%					
Be 313.107†	1990379.1	4.919 mg/L	0.0214	4.919 mg/L	0.0214	0.43%
QC value within limits for Be 313.107	Recovery = 98.38%					
Ca 317.933†	64174.4	9.993 mg/L	0.0350	9.993 mg/L	0.0350	0.35%
QC value within limits for Ca 317.933	Recovery = 99.93%					
Cd 228.802†	525641.4	5.011 mg/L	0.0301	5.011 mg/L	0.0301	0.60%
QC value within limits for Cd 228.802	Recovery = 100.22%					

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By NC at 11:01 am, Apr 17, 2024

Co 228.616†	467816.3	5.044 mg/L	0.0321	5.044 mg/L	0.0321	0.64%
QC value within limits for Co 228.616		Recovery = 100.89%				
Cr 267.716†	583276.9	4.968 mg/L	0.0297	4.968 mg/L	0.0297	0.60%
QC value within limits for Cr 267.716		Recovery = 99.37%				
Cu 327.393†	766665.5	4.860 mg/L	0.0283	4.860 mg/L	0.0283	0.58%
QC value within limits for Cu 327.393		Recovery = 97.20%				
Fe 238.204†	11114.9	5.163 mg/L	0.0061	5.163 mg/L	0.0061	0.12%
QC value within limits for Fe 238.204		Recovery = 103.26%				
K 766.490†	29455.1	9.817 mg/L	0.0517	9.817 mg/L	0.0517	0.53%
QC value within limits for K 766.490		Recovery = 98.17%				
Mg 285.213†	79613.7	10.09 mg/L	0.037	10.09 mg/L	0.037	0.36%
QC value within limits for Mg 285.213		Recovery = 100.89%				
Mn 257.610†	115993.3	5.124 mg/L	0.0212	5.124 mg/L	0.0212	0.41%
QC value within limits for Mn 257.610		Recovery = 102.47%				
Mo 202.031†	113694.4	4.925 mg/L	0.0216	4.925 mg/L	0.0216	0.44%
QC value within limits for Mo 202.031		Recovery = 98.51%				
Na 589.592†	99923.9	9.522 mg/L	0.0258	9.522 mg/L	0.0258	0.27%
QC value within limits for Na 589.592		Recovery = 95.22%				
Ni 231.604†	180556.2	5.004 mg/L	0.0302	5.004 mg/L	0.0302	0.60%
QC value within limits for Ni 231.604		Recovery = 100.07%				
Pb 220.353†	56474.8	5.007 mg/L	0.0568	5.007 mg/L	0.0568	1.13%
QC value within limits for Pb 220.353		Recovery = 100.14%				
Sb 206.836†	27910.7	4.903 mg/L	0.0557	4.903 mg/L	0.0557	1.14%
QC value within limits for Sb 206.836		Recovery = 98.06%				
Se 196.026†	8747.6	5.073 mg/L	0.0610	5.073 mg/L	0.0610	1.20%
QC value within limits for Se 196.026		Recovery = 101.46%				
Sn 189.927†	38916.4	4.953 mg/L	0.0556	4.953 mg/L	0.0556	1.12%
QC value within limits for Sn 189.927		Recovery = 99.07%				
Ti 337.279†	84641.0	4.919 mg/L	0.0249	4.919 mg/L	0.0249	0.51%
QC value within limits for Ti 337.279		Recovery = 98.38%				
Tl 351.924†	27123.5	2.459 mg/L	0.0255	2.459 mg/L	0.0255	1.04%
QC value within limits for Tl 351.924		Recovery = 98.36%				
V 290.880†	1021930.2	5.051 mg/L	0.0325	5.051 mg/L	0.0325	0.64%
QC value within limits for V 290.880		Recovery = 101.03%				
Zn 206.200†	331040.4	5.083 mg/L	0.0255	5.083 mg/L	0.0255	0.50%
QC value within limits for Zn 206.200		Recovery = 101.67%				
Zr 343.823†	1935974.7	4.880 mg/L	0.0340	4.880 mg/L	0.0340	0.70%
All analyte(s) passed QC.						

APPROVED
By NC at 11:01 am, Apr 17, 2024

Sequence No.: 109

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 8:40:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4698715.4	98.75 %	1.909			1.93%
Y radial	182709.6	104.0 %	0.82			0.79%
Ag 328.068†	857.6	0.0032 mg/L	0.00006	0.0032 mg/L	0.00006	1.78%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153†	5.0	0.0013 mg/L	0.01023	0.0013 mg/L	0.01023	764.45%
QC value within limits for Al 396.153		Recovery = Not calculated				
As 188.979†	-5.4	-0.0018 mg/L	0.00076	-0.0018 mg/L	0.00076	41.82%
QC value within limits for As 188.979		Recovery = Not calculated				
B 208.889†	-764.5	-0.0459 mg/L	0.00022	-0.0459 mg/L	0.00022	0.49%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	25.5	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	33.60%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 313.107†	-35.5	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	13.82%
QC value within limits for Be 313.107		Recovery = Not calculated				
Ca 317.933†	36.9	0.0057 mg/L	0.00160	0.0057 mg/L	0.00160	27.90%
QC value within limits for Ca 317.933		Recovery = Not calculated				
Cd 228.802†	8.7	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	32.05%
QC value within limits for Cd 228.802		Recovery = Not calculated				
Co 228.616†	-3.0	-0.0000 mg/L	0.00009	-0.0000 mg/L	0.00009	306.68%

APPROVED
By NC at 11:01 am, Apr 17, 2024

QC value within limits for Co 228.616 Recovery = Not calculated
 Cr 267.716† -2.6 -0.0000 mg/L 0.00008 -0.0000 mg/L 0.00008 379.74%
 QC value within limits for Cr 267.716 Recovery = Not calculated
 Cu 327.393† -187.9 -0.0012 mg/L 0.00014 -0.0012 mg/L 0.00014 12.11%
 QC value within limits for Cu 327.393 Recovery = Not calculated
 Fe 238.204† 1.2 0.0006 mg/L 0.00143 0.0006 mg/L 0.00143 259.53%
 QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† 49.4 0.0165 mg/L 0.01350 0.0165 mg/L 0.01350 81.95%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 10.8 0.0014 mg/L 0.00027 0.0014 mg/L 0.00027 19.70%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 3.3 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 58.66%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 28.0 0.0012 mg/L 0.00017 0.0012 mg/L 0.00017 14.37%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† -145.0 -0.0138 mg/L 0.00278 -0.0138 mg/L 0.00278 20.11%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† -5.0 -0.0001 mg/L 0.00046 -0.0001 mg/L 0.00046 343.63%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 11.2 0.0010 mg/L 0.00042 0.0010 mg/L 0.00042 41.61%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 11.5 0.0020 mg/L 0.00101 0.0020 mg/L 0.00101 49.41%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 3.8 0.0022 mg/L 0.00386 0.0022 mg/L 0.00386 174.78%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 0.4 0.0001 mg/L 0.00067 0.0001 mg/L 0.00067 >999.9%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 1.2 0.0001 mg/L 0.00019 0.0001 mg/L 0.00019 279.06%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -52.8 -0.0049 mg/L 0.00126 -0.0049 mg/L 0.00126 25.77%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 440.3 0.0022 mg/L 0.00056 0.0022 mg/L 0.00056 25.70%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 62.5 0.0009 mg/L 0.00019 0.0009 mg/L 0.00019 20.42%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -10.4 -0.0000 mg/L 0.00012 -0.0000 mg/L 0.00012 466.27%
 All analyte(s) passed QC.

APPROVED

By NC at 11:01 am, Apr 17, 2024

Sequence No.: 110
 Sample ID: B371655-SRM1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 112
 Date Collected: 4/16/2024 8:46:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371655-SRM1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4597346.4	96.62	%	0.305				0.32%
Y radial	180051.2	102.5	%	0.79				0.77%
Ag 328.068†	-18346.3	0.0107	mg/L	0.00077	0.0107	mg/L	0.00077	7.21%
Al 396.153†	65973.6	18.35	mg/L	0.189	18.35	mg/L	0.189	1.03%
As 188.979†	52506.9	17.92	mg/L	0.170	17.92	mg/L	0.170	0.95%
B 208.889†	-816.8	-0.0486	mg/L	0.00046	-0.0486	mg/L	0.00046	0.95%
Ba 233.527†	2895812.3	18.58	mg/L	0.038	18.58	mg/L	0.038	0.21%
Be 313.107†	7625134.6	18.85	mg/L	0.186	18.85	mg/L	0.186	0.99%
Ca 317.933†	187.2	0.0291	mg/L	0.00120	0.0291	mg/L	0.00120	4.10%
Cd 228.802†	1877966.6	17.91	mg/L	0.030	17.91	mg/L	0.030	0.17%
Co 228.616†	1757922.5	18.94	mg/L	0.036	18.94	mg/L	0.036	0.19%
Cr 267.716†	2174770.8	18.52	mg/L	0.054	18.52	mg/L	0.054	0.29%
Cu 327.393†	2892981.0	18.27	mg/L	0.057	18.27	mg/L	0.057	0.31%
Fe 238.204†	42862.0	19.90	mg/L	0.154	19.90	mg/L	0.154	0.77%
K 766.490†	-8.9	-0.0030	mg/L	0.00376	-0.0030	mg/L	0.00376	126.82%
Mg 285.213†	-202.4	0.0030	mg/L	0.00066	0.0030	mg/L	0.00066	21.83%
Mn 257.610†	441912.2	19.52	mg/L	0.165	19.52	mg/L	0.165	0.84%
Mo 202.031†	-174.4	-0.0076	mg/L	0.00042	-0.0076	mg/L	0.00042	5.58%
Na 589.592†	-128.2	-0.0122	mg/L	0.00217	-0.0122	mg/L	0.00217	17.73%
Ni 231.604†	680754.5	18.85	mg/L	0.055	18.85	mg/L	0.055	0.29%

Pb 220.353†	215904.4	19.11 mg/L	0.164	19.11 mg/L	0.164	0.86%
Sb 206.836†	1562.3	-0.0640 mg/L	0.00201	-0.0640 mg/L	0.00201	3.14%
Se 196.026†	33231.8	19.23 mg/L	0.171	19.23 mg/L	0.171	0.89%
Sn 189.927†	-56.8	-0.0072 mg/L	0.00001	-0.0072 mg/L	0.00001	0.20%
Ti 337.279†	0.8	0.0000 mg/L	0.00028	0.0000 mg/L	0.00028	597.04%
Tl 351.924†	207575.9	19.07 mg/L	0.210	19.07 mg/L	0.210	1.10%
V 290.880†	3840954.3	18.99 mg/L	0.048	18.99 mg/L	0.048	0.25%
Zn 206.200†	1227948.6	18.92 mg/L	0.046	18.92 mg/L	0.046	0.24%
Zr 343.823†	-435.8	-0.0016 mg/L	0.00011	-0.0016 mg/L	0.00011	6.82%

Sequence No.: 111
Sample ID: B371655-SRM2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 113
Date Collected: 4/16/2024 8:54:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371655-SRM2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4400054.1	92.48 %		1.231			1.33%
Y radial	172793.7	98.37 %		1.900			1.93%
Ag 328.068†	-27942.1	0.0161 mg/L		0.00022	0.0161 mg/L	0.00022	1.39%
Al 396.153†	100669.9	28.01 mg/L		0.363	28.01 mg/L	0.363	1.29%
As 188.979†	78891.5	26.92 mg/L		0.212	26.92 mg/L	0.212	0.79%
B 208.889†	-845.7	-0.0501 mg/L		0.00080	-0.0501 mg/L	0.00080	1.60%
Ba 233.527†	4281097.3	27.46 mg/L		0.313	27.46 mg/L	0.313	1.14%
Be 313.107†	10785841.6	26.65 mg/L		0.546	26.65 mg/L	0.546	2.05%
Ca 317.933†	279.1	0.0435 mg/L		0.00255	0.0435 mg/L	0.00255	5.88%
Cd 228.802†	2732769.6	26.04 mg/L		0.309	26.04 mg/L	0.309	1.19%
Co 228.616†	2635778.6	28.40 mg/L		0.322	28.40 mg/L	0.322	1.13%
Cr 267.716†	3259927.1	27.76 mg/L		0.311	27.76 mg/L	0.311	1.12%
Cu 327.393†	4400511.7	27.79 mg/L		0.307	27.79 mg/L	0.307	1.10%
Fe 238.204†	64099.6	29.76 mg/L		0.383	29.76 mg/L	0.383	1.29%
K 766.490†	-57.2	-0.0191 mg/L		0.00454	-0.0191 mg/L	0.00454	23.83%
Mg 285.213†	-329.8	0.0016 mg/L		0.00081	0.0016 mg/L	0.00081	50.23%
Mn 257.610†	656949.6	29.02 mg/L		0.416	29.02 mg/L	0.416	1.43%
Mo 202.031†	-278.3	-0.0121 mg/L		0.00007	-0.0121 mg/L	0.00007	0.58%
Na 589.592†	-152.8	-0.0146 mg/L		0.00135	-0.0146 mg/L	0.00135	9.28%
Ni 231.604†	1019134.4	28.22 mg/L		0.307	28.22 mg/L	0.307	1.09%
Pb 220.353†	324311.3	28.70 mg/L		0.239	28.70 mg/L	0.239	0.83%
Sb 206.836†	2373.9	-0.0897 mg/L		0.00140	-0.0897 mg/L	0.00140	1.56%
Se 196.026†	50081.6	28.99 mg/L		0.240	28.99 mg/L	0.240	0.83%
Sn 189.927†	-88.9	-0.0113 mg/L		0.00048	-0.0113 mg/L	0.00048	4.28%
Ti 337.279†	0.1	0.0000 mg/L		0.00042	0.0000 mg/L	0.00042	>999.9%
Tl 351.924†	316454.1	29.07 mg/L		0.233	29.07 mg/L	0.233	0.80%
V 290.880†	5833041.7	28.83 mg/L		0.321	28.83 mg/L	0.321	1.11%
Zn 206.200†	1835187.2	28.28 mg/L		0.310	28.28 mg/L	0.310	1.10%
Zr 343.823†	-715.1	-0.0025 mg/L		0.00017	-0.0025 mg/L	0.00017	6.82%

Sequence No.: 112
Sample ID: B371655-SRM3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 114
Date Collected: 4/16/2024 9:01:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371655-SRM3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4533603.8	95.28 %		1.816			1.91%
Y radial	173821.8	98.96 %		0.833			0.84%
Ag 328.068†	-36616.4	0.0186 mg/L		0.00183	0.0186 mg/L	0.00183	9.81%
Al 396.153†	132578.3	36.88 mg/L		0.502	36.88 mg/L	0.502	1.36%
As 188.979†	102847.7	35.10 mg/L		0.434	35.10 mg/L	0.434	1.24%
B 208.889†	-886.5	-0.0524 mg/L		0.00139	-0.0524 mg/L	0.00139	2.65%

Ba 233.527†	5440756.9	34.90 mg/L	0.670	34.90 mg/L	0.670	1.92%
Be 313.107†	14585843.6	36.04 mg/L	0.246	36.04 mg/L	0.246	0.68%
Ca 317.933†	362.3	0.0564 mg/L	0.00403	0.0564 mg/L	0.00403	7.14%
Cd 228.802†	3411232.8	32.48 mg/L	0.734	32.48 mg/L	0.734	2.26%
Co 228.616†	3403585.0	36.67 mg/L	0.852	36.67 mg/L	0.852	2.32%
Cr 267.716†	4212999.2	35.88 mg/L	0.825	35.88 mg/L	0.825	2.30%
Cu 327.393†	5737270.5	36.24 mg/L	0.822	36.24 mg/L	0.822	2.27%
Fe 238.204†	84471.0	39.21 mg/L	0.546	39.21 mg/L	0.546	1.39%
K 766.490†	-13.9	-0.0046 mg/L	0.00132	-0.0046 mg/L	0.00132	28.60%
Mg 285.213†	-446.6	0.0001 mg/L	0.00108	0.0001 mg/L	0.00108	>999.9%
Mn 257.610†	872811.3	38.55 mg/L	0.523	38.55 mg/L	0.523	1.36%
Mo 202.031†	-363.1	-0.0157 mg/L	0.00060	-0.0157 mg/L	0.00060	3.81%
Na 589.592†	-136.4	-0.0130 mg/L	0.00121	-0.0130 mg/L	0.00121	9.32%
Ni 231.604†	1301585.4	36.04 mg/L	0.823	36.04 mg/L	0.823	2.28%
Pb 220.353†	422666.8	37.41 mg/L	0.548	37.41 mg/L	0.548	1.46%
Sb 206.836†	3041.8	-0.1212 mg/L	0.00741	-0.1212 mg/L	0.00741	6.12%
Se 196.026†	65540.2	37.93 mg/L	0.452	37.93 mg/L	0.452	1.19%
Sn 189.927†	-112.5	-0.0143 mg/L	0.00024	-0.0143 mg/L	0.00024	1.71%
Ti 337.279†	-7.3	-0.0004 mg/L	0.00019	-0.0004 mg/L	0.00019	43.70%
Tl 351.924†	420208.2	38.60 mg/L	0.513	38.60 mg/L	0.513	1.33%
V 290.880†	7534829.9	37.24 mg/L	0.780	37.24 mg/L	0.780	2.09%
Zn 206.200†	2317073.3	35.71 mg/L	0.875	35.71 mg/L	0.875	2.45%
Zr 343.823†	-893.2	-0.0032 mg/L	0.00023	-0.0032 mg/L	0.00023	7.34%

Sequence No.: 113

Sample ID: B371655-SRM4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 115

Date Collected: 4/16/2024 9:09:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371655-SRM4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4348805.6	91.40 %		0.904			0.99%
Y radial	169579.5	96.54 %		0.548			0.57%
Ag 328.068†	-46765.2	0.0241 mg/L		0.00418	0.0241 mg/L	0.00418	17.37%
Al 396.153†	165747.0	46.11 mg/L		0.112	46.11 mg/L	0.112	0.24%
As 188.979†	128530.2	43.86 mg/L		0.702	43.86 mg/L	0.702	1.60%
B 208.889†	-911.0	-0.0536 mg/L		0.00041	-0.0536 mg/L	0.00041	0.76%
Ba 233.527†	6797214.1	43.61 mg/L		0.742	43.61 mg/L	0.742	1.70%
Be 313.107†	17563349.6	43.39 mg/L		0.280	43.39 mg/L	0.280	0.64%
Ca 317.933†	435.2	0.0678 mg/L		0.00175	0.0678 mg/L	0.00175	2.58%
Cd 228.802†	4147781.6	39.47 mg/L		0.623	39.47 mg/L	0.623	1.58%
Co 228.616†	4289287.5	46.22 mg/L		0.819	46.22 mg/L	0.819	1.77%
Cr 267.716†	5326278.6	45.36 mg/L		0.794	45.36 mg/L	0.794	1.75%
Cu 327.393†	7310161.1	46.17 mg/L		0.851	46.17 mg/L	0.851	1.84%
Fe 238.204†	104467.2	48.50 mg/L		0.123	48.50 mg/L	0.123	0.25%
K 766.490†	-25.7	-0.0086 mg/L		0.00177	-0.0086 mg/L	0.00177	20.64%
Mg 285.213†	-561.5	0.0002 mg/L		0.00021	0.0002 mg/L	0.00021	132.91%
Mn 257.610†	1063658.5	46.98 mg/L		0.103	46.98 mg/L	0.103	0.22%
Mo 202.031†	-454.7	-0.0197 mg/L		0.00057	-0.0197 mg/L	0.00057	2.89%
Na 589.592†	-137.0	-0.0131 mg/L		0.00066	-0.0131 mg/L	0.00066	5.06%
Ni 231.604†	1637128.3	45.34 mg/L		0.609	45.34 mg/L	0.609	1.34%
Pb 220.353†	528241.0	46.75 mg/L		0.670	46.75 mg/L	0.670	1.43%
Sb 206.836†	3858.4	-0.1489 mg/L		0.00711	-0.1489 mg/L	0.00711	4.77%
Se 196.026†	81489.7	47.16 mg/L		0.617	47.16 mg/L	0.617	1.31%
Sn 189.927†	-141.5	-0.0180 mg/L		0.00140	-0.0180 mg/L	0.00140	7.77%
Ti 337.279†	-1.2	-0.0001 mg/L		0.00005	-0.0001 mg/L	0.00005	68.64%
Tl 351.924†	523398.9	48.08 mg/L		0.691	48.08 mg/L	0.691	1.44%
V 290.880†	9612941.7	47.52 mg/L		0.816	47.52 mg/L	0.816	1.72%
Zn 206.200†	2907594.9	44.81 mg/L		0.650	44.81 mg/L	0.650	1.45%
Zr 343.823†	-1015.7	-0.0037 mg/L		0.00013	-0.0037 mg/L	0.00013	3.44%

Sequence No.: 114

Sample ID: B371655-SRM5

Analyst:

Autosampler Location: 116

Date Collected: 4/16/2024 9:17:44 PM

Data Type: Original

Initial Sample Wt:
Dilution:
Wash Time: 230

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371655-SRM5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4237087.1	89.05	%	0.602				0.68%
Y radial	166693.8	94.90	%	1.647				1.74%
Ag 328.068†	-56195.6	0.0267	mg/L	0.00043	0.0267	mg/L	0.00043	1.61%
Al 396.153†	201220.3	55.98	mg/L	0.378	55.98	mg/L	0.378	0.68%
As 188.979†	152538.8	52.06	mg/L	0.108	52.06	mg/L	0.108	0.21%
B 208.889†	-924.0	-0.0542	mg/L	0.00028	-0.0542	mg/L	0.00028	0.52%
Ba 233.527†	7942838.4	50.96	mg/L	0.224	50.96	mg/L	0.224	0.44%
Be 313.107†	20639468.4	50.98	mg/L	0.858	50.98	mg/L	0.858	1.68%
Ca 317.933†	505.2	0.0787	mg/L	0.00413	0.0787	mg/L	0.00413	5.25%
Cd 228.802†	4777271.2	45.43	mg/L	0.198	45.43	mg/L	0.198	0.44%
Co 228.616†	5075194.1	54.68	mg/L	0.222	54.68	mg/L	0.222	0.41%
Cr 267.716†	6298290.8	53.64	mg/L	0.245	53.64	mg/L	0.245	0.46%
Cu 327.393†	8697781.0	54.94	mg/L	0.109	54.94	mg/L	0.109	0.20%
Fe 238.204†	126284.8	58.62	mg/L	0.554	58.62	mg/L	0.554	0.94%
K 766.490†	-14.8	-0.0049	mg/L	0.01026	-0.0049	mg/L	0.01026	207.46%
Mg 285.213†	-682.0	-0.0006	mg/L	0.00151	-0.0006	mg/L	0.00151	265.87%
Mn 257.610†	1285385.5	56.78	mg/L	0.478	56.78	mg/L	0.478	0.84%
Mo 202.031†	-542.0	-0.0235	mg/L	0.00029	-0.0235	mg/L	0.00029	1.24%
Na 589.592†	-136.5	-0.0130	mg/L	0.00154	-0.0130	mg/L	0.00154	11.80%
Ni 231.604†	1932125.9	53.50	mg/L	0.136	53.50	mg/L	0.136	0.25%
Pb 220.353†	625452.2	55.36	mg/L	0.101	55.36	mg/L	0.101	0.18%
Sb 206.836†	4603.5	-0.1683	mg/L	0.00264	-0.1683	mg/L	0.00264	1.57%
Se 196.026†	97029.6	56.16	mg/L	0.096	56.16	mg/L	0.096	0.17%
Sn 189.927†	-161.7	-0.0206	mg/L	0.00107	-0.0206	mg/L	0.00107	5.21%
Ti 337.279†	-3.9	-0.0002	mg/L	0.00043	-0.0002	mg/L	0.00043	190.88%
Tl 351.924†	625739.2	57.48	mg/L	0.085	57.48	mg/L	0.085	0.15%
V 290.880†	11453050.0	56.61	mg/L	0.202	56.61	mg/L	0.202	0.36%
Zn 206.200†	3432204.7	52.90	mg/L	0.226	52.90	mg/L	0.226	0.43%
Zr 343.823†	-1167.1	-0.0043	mg/L	0.00009	-0.0043	mg/L	0.00009	2.18%

Sequence No.: 115

Sample ID: B371655-SRM6

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 117

Date Collected: 4/16/2024 9:25:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371655-SRM6

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4298617.7	90.35	%	0.804				0.89%
Y radial	167519.5	95.37	%	0.880				0.92%
Ag 328.068†	-64562.8	0.0284	mg/L	0.00219	0.0284	mg/L	0.00219	7.72%
Al 396.153†	235940.6	65.64	mg/L	0.769	65.64	mg/L	0.769	1.17%
As 188.979†	173139.2	59.09	mg/L	0.399	59.09	mg/L	0.399	0.67%
B 208.889†	-962.6	-0.0564	mg/L	0.00104	-0.0564	mg/L	0.00104	1.85%
Ba 233.527†	8868243.4	56.90	mg/L	0.295	56.90	mg/L	0.295	0.52%
Be 313.107†	23479406.7	58.00	mg/L	0.362	58.00	mg/L	0.362	0.62%
Ca 317.933†	593.8	0.0925	mg/L	0.00319	0.0925	mg/L	0.00319	3.45%
Cd 228.802†	5213767.4	49.54	mg/L	0.326	49.54	mg/L	0.326	0.66%
Co 228.616†	5721538.8	61.65	mg/L	0.311	61.65	mg/L	0.311	0.50%
Cr 267.716†	7123810.8	60.67	mg/L	0.318	60.67	mg/L	0.318	0.52%
Cu 327.393†	9901525.3	62.54	mg/L	0.364	62.54	mg/L	0.364	0.58%
Fe 238.204†	146320.2	67.91	mg/L	0.762	67.91	mg/L	0.762	1.12%
K 766.490†	-49.0	-0.0163	mg/L	0.01326	-0.0163	mg/L	0.01326	81.21%
Mg 285.213†	-787.5	-0.0008	mg/L	0.00088	-0.0008	mg/L	0.00088	117.45%
Mn 257.610†	1486802.1	65.67	mg/L	0.749	65.67	mg/L	0.749	1.14%
Mo 202.031†	-613.8	-0.0266	mg/L	0.00024	-0.0266	mg/L	0.00024	0.92%
Na 589.592†	-122.1	-0.0116	mg/L	0.00136	-0.0116	mg/L	0.00136	11.68%
Ni 231.604†	2189042.0	60.62	mg/L	0.395	60.62	mg/L	0.395	0.65%

Pb 220.353†	709354.9	62.78 mg/L	0.466	62.78 mg/L	0.466	0.74%
Sb 206.836†	5276.1	-0.1774 mg/L	0.00194	-0.1774 mg/L	0.00194	1.09%
Se 196.026†	110371.0	63.88 mg/L	0.457	63.88 mg/L	0.457	0.72%
Sn 189.927†	-182.1	-0.0232 mg/L	0.00070	-0.0232 mg/L	0.00070	3.01%
Ti 337.279†	-6.7	-0.0004 mg/L	0.00023	-0.0004 mg/L	0.00023	59.37%
Tl 351.924†	720906.2	66.22 mg/L	0.319	66.22 mg/L	0.319	0.48%
V 290.880†	13057914.3	64.54 mg/L	0.277	64.54 mg/L	0.277	0.43%
Zn 206.200†	3844406.8	59.25 mg/L	0.574	59.25 mg/L	0.574	0.97%
Zr 343.823†	-1414.4	-0.0052 mg/L	0.00013	-0.0052 mg/L	0.00013	2.50%

Sequence No.: 116

Sample ID: B371655-SRM7

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 118

Date Collected: 4/16/2024 9:33:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371655-SRM7

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4268635.3	89.72 %		0.437			0.49%
Y radial	167372.3	95.29 %		1.789			1.88%
Ag 328.068†	-73093.8	0.0343 mg/L		0.00319	0.0343 mg/L	0.00319	9.31%
Al 396.153†	264330.1	73.53 mg/L		0.770	73.53 mg/L	0.770	1.05%
As 188.979†	195900.1	66.86 mg/L		0.421	66.86 mg/L	0.421	0.63%
B 208.889†	-971.0	-0.0567 mg/L		0.00034	-0.0567 mg/L	0.00034	0.59%
Ba 233.527†	9881312.1	63.40 mg/L		0.410	63.40 mg/L	0.410	0.65%
Be 313.107†	25911751.9	64.00 mg/L		0.441	64.00 mg/L	0.441	0.69%
Ca 317.933†	640.7	0.0998 mg/L		0.00535	0.0998 mg/L	0.00535	5.36%
Cd 228.802†	5710180.2	54.22 mg/L		0.320	54.22 mg/L	0.320	0.59%
Co 228.616†	6459442.3	69.60 mg/L		0.475	69.60 mg/L	0.475	0.68%
Cr 267.716†	8039820.5	68.47 mg/L		0.482	68.47 mg/L	0.482	0.70%
Cu 327.393†	11291120.5	71.32 mg/L		0.550	71.32 mg/L	0.550	0.77%
Fe 238.204†	163096.5	75.70 mg/L		0.930	75.70 mg/L	0.930	1.23%
K 766.490†	-26.1	-0.0087 mg/L		0.00340	-0.0087 mg/L	0.00340	39.10%
Mg 285.213†	-895.5	-0.0017 mg/L		0.00070	-0.0017 mg/L	0.00070	42.15%
Mn 257.610†	1657325.5	73.21 mg/L		0.899	73.21 mg/L	0.899	1.23%
Mo 202.031†	-688.7	-0.0298 mg/L		0.00043	-0.0298 mg/L	0.00043	1.45%
Na 589.592†	-140.7	-0.0134 mg/L		0.00120	-0.0134 mg/L	0.00120	8.94%
Ni 231.604†	2466562.7	68.30 mg/L		0.377	68.30 mg/L	0.377	0.55%
Pb 220.353†	802202.4	71.00 mg/L		0.353	71.00 mg/L	0.353	0.50%
Sb 206.836†	5960.7	-0.1982 mg/L		0.00421	-0.1982 mg/L	0.00421	2.12%
Se 196.026†	125155.9	72.44 mg/L		0.438	72.44 mg/L	0.438	0.61%
Sn 189.927†	-217.5	-0.0277 mg/L		0.00115	-0.0277 mg/L	0.00115	4.15%
Ti 337.279†	-10.3	-0.0006 mg/L		0.00041	-0.0006 mg/L	0.00041	69.13%
Tl 351.924†	819718.1	75.30 mg/L		0.533	75.30 mg/L	0.533	0.71%
V 290.880†	14868355.5	73.49 mg/L		0.585	73.49 mg/L	0.585	0.80%
Zn 206.200†	4333821.6	66.80 mg/L		0.304	66.80 mg/L	0.304	0.46%
Zr 343.823†	-1577.2	-0.0058 mg/L		0.00005	-0.0058 mg/L	0.00005	0.83%

Sequence No.: 117

Sample ID: B371655-SRM8

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 119

Date Collected: 4/16/2024 9:41:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371655-SRM8

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4283546.0	90.03 %		0.914			1.02%
Y radial	163625.6	93.15 %		0.461			0.49%
Ag 328.068†	-81438.3	0.0335 mg/L		0.00172	0.0335 mg/L	0.00172	5.14%
Al 396.153†	305392.0	84.96 mg/L		0.335	84.96 mg/L	0.335	0.39%
As 188.979†	219210.9	74.81 mg/L		0.319	74.81 mg/L	0.319	0.43%
B 208.889†	-1010.0	-0.0589 mg/L		0.00090	-0.0589 mg/L	0.00090	1.52%

Ba 233.527†	10807355.5	69.34 mg/L	0.414	69.34 mg/L	0.414	0.60%
Be 313.107†	28726367.1	70.95 mg/L	0.430	70.95 mg/L	0.430	0.61%
Ca 317.933†	748.2	0.1165 mg/L	0.00423	0.1165 mg/L	0.00423	3.63%
Cd 228.802†	6149964.5	58.35 mg/L	0.720	58.35 mg/L	0.720	1.23%
Co 228.616†	7215007.2	77.74 mg/L	0.818	77.74 mg/L	0.818	1.05%
Cr 267.716†	8999794.4	76.64 mg/L	0.811	76.64 mg/L	0.811	1.06%
Cu 327.393†	12624987.4	79.74 mg/L	0.757	79.74 mg/L	0.757	0.95%
Fe 238.204†	186553.6	86.58 mg/L	0.411	86.58 mg/L	0.411	0.47%
K 766.490†	-28.9	-0.0096 mg/L	0.01549	-0.0096 mg/L	0.01549	160.81%
Mg 285.213†	-994.4	-0.0010 mg/L	0.00063	-0.0010 mg/L	0.00063	61.88%
Mn 257.610†	1897881.7	83.83 mg/L	0.375	83.83 mg/L	0.375	0.45%
Mo 202.031†	-781.9	-0.0339 mg/L	0.00002	-0.0339 mg/L	0.00002	0.06%
Na 589.592†	-24.0	-0.0023 mg/L	0.00473	-0.0023 mg/L	0.00473	206.54%
Ni 231.604†	2752556.4	76.22 mg/L	0.834	76.22 mg/L	0.834	1.09%
Pb 220.353†	896939.1	79.38 mg/L	0.413	79.38 mg/L	0.413	0.52%
Sb 206.836†	6684.0	-0.2237 mg/L	0.01066	-0.2237 mg/L	0.01066	4.77%
Se 196.026†	141384.5	81.83 mg/L	0.229	81.83 mg/L	0.229	0.28%
Sn 189.927†	-244.4	-0.0311 mg/L	0.00072	-0.0311 mg/L	0.00072	2.31%
Ti 337.279†	-1.3	-0.0001 mg/L	0.00012	-0.0001 mg/L	0.00012	168.38%
Tl 351.924†	944874.5	86.81 mg/L	0.480	86.81 mg/L	0.480	0.55%
V 290.880†	16372032.3	80.92 mg/L	0.595	80.92 mg/L	0.595	0.74%
Zn 206.200†	4723634.0	72.82 mg/L	1.119	72.82 mg/L	1.119	1.54%
Zr 343.823†	-1814.7	-0.0066 mg/L	0.00013	-0.0066 mg/L	0.00013	1.99%

Sequence No.: 118

Sample ID: B371655-SRM9

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 120

Date Collected: 4/16/2024 9:48:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371655-SRM9

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4317992.7	90.75 %		1.310			1.44%
Y radial	170068.5	96.82 %		1.565			1.62%
Ag 328.068†	-86659.6	0.0364 mg/L		0.00429	0.0364 mg/L	0.00429	11.78%
Al 396.153†	326154.1	90.73 mg/L		0.208	90.73 mg/L	0.208	0.23%
As 188.979†	233109.3	79.56 mg/L		1.515	79.56 mg/L	1.515	1.90%
B 208.889†	-1035.0	-0.0602 mg/L		0.00096	-0.0602 mg/L	0.00096	1.60%
Ba 233.527†	11364976.8	72.92 mg/L		1.406	72.92 mg/L	1.406	1.93%
Be 313.107†	30917859.7	76.37 mg/L		1.468	76.37 mg/L	1.468	1.92%
Ca 317.933†	723.5	0.1127 mg/L		0.01006	0.1127 mg/L	0.01006	8.93%
Cd 228.802†	6386156.9	60.55 mg/L		1.035	60.55 mg/L	1.035	1.71%
Co 228.616†	7599592.6	81.88 mg/L		1.685	81.88 mg/L	1.685	2.06%
Cr 267.716†	9539066.1	81.23 mg/L		1.686	81.23 mg/L	1.686	2.08%
Cu 327.393†	13477667.4	85.13 mg/L		2.064	85.13 mg/L	2.064	2.42%
Fe 238.204†	198094.0	91.93 mg/L		0.316	91.93 mg/L	0.316	0.34%
K 766.490†	1.9	0.0006 mg/L		0.00279	0.0006 mg/L	0.00279	442.09%
Mg 285.213†	-1085.9	-0.0044 mg/L		0.00914	-0.0044 mg/L	0.00914	209.87%
Mn 257.610†	2019987.6	89.23 mg/L		0.236	89.23 mg/L	0.236	0.26%
Mo 202.031†	-835.8	-0.0362 mg/L		0.00061	-0.0362 mg/L	0.00061	1.69%
Na 589.592†	-76.0	-0.0072 mg/L		0.00708	-0.0072 mg/L	0.00708	97.73%
Ni 231.604†	2910342.2	80.59 mg/L		1.643	80.59 mg/L	1.643	2.04%
Pb 220.353†	957960.9	84.78 mg/L		1.666	84.78 mg/L	1.666	1.96%
Sb 206.836†	7075.7	-0.2380 mg/L		0.01409	-0.2380 mg/L	0.01409	5.92%
Se 196.026†	150541.9	87.13 mg/L		1.683	87.13 mg/L	1.683	1.93%
Sn 189.927†	-241.2	-0.0307 mg/L		0.00082	-0.0307 mg/L	0.00082	2.68%
Ti 337.279†	-23.8	-0.0014 mg/L		0.00105	-0.0014 mg/L	0.00105	76.19%
Tl 351.924†	1012997.6	93.07 mg/L		1.835	93.07 mg/L	1.835	1.97%
V 290.880†	17459251.2	86.30 mg/L		1.812	86.30 mg/L	1.812	2.10%
Zn 206.200†	4989690.0	76.93 mg/L		1.518	76.93 mg/L	1.518	1.97%
Zr 343.823†	-2045.0	-0.0073 mg/L		0.00004	-0.0073 mg/L	0.00004	0.52%

Sequence No.: 119

Sample ID: B371655-SRMA

Analyst:

Autosampler Location: 121

Date Collected: 4/16/2024 9:56:07 PM

Data Type: Original

Initial Sample Wt:
Dilution:
Wash Time: 230

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371655-SRMA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4103495.1	86.24	%	0.621				0.72%
Y radial	164911.3	93.88	%	0.989				1.05%
Ag 328.068†	-3190.6	-0.0071	mg/L	0.00021	-0.0071	mg/L	0.00021	3.02%
Al 396.153†	847060.5	235.5	mg/L	1.98	235.5	mg/L	1.98	0.84%
As 188.979†	-165.9	-0.0011	mg/L	0.00384	-0.0011	mg/L	0.00384	335.59%
B 208.889†	702833.7	42.15	mg/L	0.474	42.15	mg/L	0.474	1.12%
Ba 233.527†	2651.8	-0.0129	mg/L	0.00026	-0.0129	mg/L	0.00026	2.04%
Be 313.107†	616.8	0.0015	mg/L	0.00009	0.0015	mg/L	0.00009	6.33%
Ca 317.933†	1502931.1	234.0	mg/L	1.95	234.0	mg/L	1.95	0.83%
Cd 228.802†	167.7	0.0058	mg/L	0.00003	0.0058	mg/L	0.00003	0.51%
Co 228.616†	124.6	0.0013	mg/L	0.00024	0.0013	mg/L	0.00024	18.42%
Cr 267.716†	381.6	0.0033	mg/L	0.00018	0.0033	mg/L	0.00018	5.62%
Cu 327.393†	19997.5	0.1263	mg/L	0.00116	0.1263	mg/L	0.00116	0.92%
Fe 238.204†	488164.5	225.6	mg/L	1.45	225.6	mg/L	1.45	0.64%
K 766.490†	302149.2	100.7	mg/L	0.41	100.7	mg/L	0.41	0.41%
Mg 285.213†	737002.4	93.73	mg/L	0.490	93.73	mg/L	0.490	0.52%
Mn 257.610†	-299.5	0.0044	mg/L	0.00022	0.0044	mg/L	0.00022	4.95%
Mo 202.031†	-253.5	-0.0110	mg/L	0.00052	-0.0110	mg/L	0.00052	4.71%
Na 589.592†	2497358.9	238.0	mg/L	1.84	238.0	mg/L	1.84	0.77%
Ni 231.604†	225.5	0.0063	mg/L	0.00027	0.0063	mg/L	0.00027	4.20%
Pb 220.353†	-66.0	0.0168	mg/L	0.00287	0.0168	mg/L	0.00287	17.13%
Sb 206.836†	32.3	0.0158	mg/L	0.00202	0.0158	mg/L	0.00202	12.80%
Se 196.026†	72.7	0.0069	mg/L	0.00572	0.0069	mg/L	0.00572	83.44%
Sn 189.927†	-561.3	-0.0715	mg/L	0.00049	-0.0715	mg/L	0.00049	0.69%
Ti 337.279†	28.2	0.0016	mg/L	0.00039	0.0016	mg/L	0.00039	23.53%
Tl 351.924†	-1423.9	0.0153	mg/L	0.00145	0.0153	mg/L	0.00145	9.50%
V 290.880†	3369.0	0.0003	mg/L	0.00056	0.0003	mg/L	0.00056	197.17%
Zn 206.200†	5897.3	0.0541	mg/L	0.00374	0.0541	mg/L	0.00374	6.92%
Zr 343.823†	2322.7	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	24.11%

Sequence No.: 120
Sample ID: B371655-SRMB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 122
Date Collected: 4/16/2024 10:01:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371655-SRMB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4072958.7	85.60	%	0.779				0.91%
Y radial	163771.8	93.24	%	1.790				1.92%
Ag 328.068†	-3888.6	-0.0089	mg/L	0.00029	-0.0089	mg/L	0.00029	3.29%
Al 396.153†	1023673.1	284.6	mg/L	6.06	284.6	mg/L	6.06	2.13%
As 188.979†	-199.4	-0.0038	mg/L	0.00383	-0.0038	mg/L	0.00383	100.23%
B 208.889†	847980.8	50.85	mg/L	0.248	50.85	mg/L	0.248	0.49%
Ba 233.527†	3049.5	-0.0154	mg/L	0.00018	-0.0154	mg/L	0.00018	1.15%
Be 313.107†	256.2	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	8.64%
Ca 317.933†	1783110.7	277.7	mg/L	6.04	277.7	mg/L	6.04	2.17%
Cd 228.802†	-5.8	0.0048	mg/L	0.00016	0.0048	mg/L	0.00016	3.23%
Co 228.616†	39.1	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	54.52%
Cr 267.716†	206.2	0.0018	mg/L	0.00015	0.0018	mg/L	0.00015	8.39%
Cu 327.393†	17163.5	0.1084	mg/L	0.00185	0.1084	mg/L	0.00185	1.71%
Fe 238.204†	570245.7	263.5	mg/L	2.18	263.5	mg/L	2.18	0.83%
K 766.490†	349810.8	116.6	mg/L	0.88	116.6	mg/L	0.88	0.75%
Mg 285.213†	871955.5	110.9	mg/L	0.82	110.9	mg/L	0.82	0.74%
Mn 257.610†	-378.0	0.0039	mg/L	0.00049	0.0039	mg/L	0.00049	12.74%
Mo 202.031†	-297.2	-0.0129	mg/L	0.00060	-0.0129	mg/L	0.00060	4.65%
Na 589.592†	2769257.2	263.9	mg/L	5.72	263.9	mg/L	5.72	2.17%
Ni 231.604†	214.7	0.0061	mg/L	0.00003	0.0061	mg/L	0.00003	0.55%

Pb 220.353†	-219.2	0.0082 mg/L	0.00157	0.0082 mg/L	0.00157	19.12%
Sb 206.836†	24.5	0.0162 mg/L	0.00095	0.0162 mg/L	0.00095	5.86%
Se 196.026†	56.6	-0.0091 mg/L	0.00615	-0.0091 mg/L	0.00615	67.83%
Sn 189.927†	-593.0	-0.0756 mg/L	0.00088	-0.0756 mg/L	0.00088	1.17%
Ti 337.279†	26.2	0.0015 mg/L	0.00031	0.0015 mg/L	0.00031	20.65%
Tl 351.924†	-1767.4	0.0083 mg/L	0.00220	0.0083 mg/L	0.00220	26.58%
V 290.880†	3933.9	0.0003 mg/L	0.00097	0.0003 mg/L	0.00097	300.35%
Zn 206.200†	3973.6	0.0199 mg/L	0.00140	0.0199 mg/L	0.00140	7.03%
Zr 343.823†	2755.7	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	6.49%

Sequence No.: 121
Sample ID: B371655-SRMC
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 123
Date Collected: 4/16/2024 10:07:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371655-SRMC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4019585.6	84.48 %		1.609			1.90%
Y radial	163150.1	92.88 %		0.724			0.78%
Ag 328.068†	-4594.5	-0.0107 mg/L		0.00024	-0.0107 mg/L	0.00024	2.25%
Al 396.153†	1170549.0	325.5 mg/L		3.56	325.5 mg/L	3.56	1.09%
As 188.979†	-234.9	-0.0065 mg/L		0.00456	-0.0065 mg/L	0.00456	70.29%
B 208.889†	972074.4	58.30 mg/L		1.336	58.30 mg/L	1.336	2.29%
Ba 233.527†	3443.9	-0.0179 mg/L		0.00053	-0.0179 mg/L	0.00053	2.97%
Be 313.107†	209.0	0.0004 mg/L		0.00003	0.0004 mg/L	0.00003	6.50%
Ca 317.933†	2050538.0	319.3 mg/L		3.13	319.3 mg/L	3.13	0.98%
Cd 228.802†	-89.2	0.0048 mg/L		0.00013	0.0048 mg/L	0.00013	2.68%
Co 228.616†	35.7	0.0003 mg/L		0.00007	0.0003 mg/L	0.00007	19.61%
Cr 267.716†	139.2	0.0012 mg/L		0.00009	0.0012 mg/L	0.00009	7.45%
Cu 327.393†	15382.2	0.0972 mg/L		0.00131	0.0972 mg/L	0.00131	1.35%
Fe 238.204†	653889.2	302.2 mg/L		1.87	302.2 mg/L	1.87	0.62%
K 766.490†	430420.8	143.4 mg/L		0.98	143.4 mg/L	0.98	0.68%
Mg 285.213†	1010477.5	128.5 mg/L		0.71	128.5 mg/L	0.71	0.55%
Mn 257.610†	-451.3	0.0036 mg/L		0.00019	0.0036 mg/L	0.00019	5.32%
Mo 202.031†	-351.1	-0.0152 mg/L		0.00047	-0.0152 mg/L	0.00047	3.09%
Na 589.592†	3456588.4	329.4 mg/L		3.34	329.4 mg/L	3.34	1.01%
Ni 231.604†	235.6	0.0067 mg/L		0.00028	0.0067 mg/L	0.00028	4.23%
Pb 220.353†	-297.0	0.0053 mg/L		0.00095	0.0053 mg/L	0.00095	17.83%
Sb 206.836†	22.5	0.0177 mg/L		0.00187	0.0177 mg/L	0.00187	10.55%
Se 196.026†	46.6	-0.0214 mg/L		0.00109	-0.0214 mg/L	0.00109	5.08%
Sn 189.927†	-623.8	-0.0795 mg/L		0.00324	-0.0795 mg/L	0.00324	4.08%
Ti 337.279†	33.7	0.0020 mg/L		0.00054	0.0020 mg/L	0.00054	27.38%
Tl 351.924†	-2052.3	0.0071 mg/L		0.00216	0.0071 mg/L	0.00216	30.32%
V 290.880†	4301.4	-0.0007 mg/L		0.00026	-0.0007 mg/L	0.00026	38.65%
Zn 206.200†	3229.8	0.0002 mg/L		0.00015	0.0002 mg/L	0.00015	68.23%
Zr 343.823†	3172.5	0.0008 mg/L		0.00023	0.0008 mg/L	0.00023	29.00%

Sequence No.: 122
Sample ID: B371655-SRMD
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 124
Date Collected: 4/16/2024 10:12:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B371655-SRMD

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4006941.0	84.22 %		1.047			1.24%
Y radial	160090.1	91.14 %		0.579			0.64%
Ag 328.068†	-5250.7	-0.0123 mg/L		0.00028	-0.0123 mg/L	0.00028	2.29%
Al 396.153†	1353570.1	376.4 mg/L		3.39	376.4 mg/L	3.39	0.90%
As 188.979†	-257.4	-0.0047 mg/L		0.00511	-0.0047 mg/L	0.00511	109.59%
B 208.889†	1079474.1	64.74 mg/L		0.112	64.74 mg/L	0.112	0.17%

Ba 233.527†	3839.4	-0.0204 mg/L	0.00050	-0.0204 mg/L	0.00050	2.46%
Be 313.107†	164.1	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	29.51%
Ca 317.933†	2318948.3	361.1 mg/L	3.31	361.1 mg/L	3.31	0.92%
Cd 228.802†	-154.8	0.0048 mg/L	0.00009	0.0048 mg/L	0.00009	1.84%
Co 228.616†	3.2	-0.0000 mg/L	0.00012	-0.0000 mg/L	0.00012	556.12%
Cr 267.716†	84.7	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	27.79%
Cu 327.393†	14096.3	0.0891 mg/L	0.00181	0.0891 mg/L	0.00181	2.03%
Fe 238.204†	735058.0	339.7 mg/L	0.72	339.7 mg/L	0.72	0.21%
K 766.490†	462401.4	154.1 mg/L	0.62	154.1 mg/L	0.62	0.40%
Mg 285.213†	1143675.5	145.4 mg/L	1.27	145.4 mg/L	1.27	0.87%
Mn 257.610†	-517.3	0.0037 mg/L	0.00027	0.0037 mg/L	0.00027	7.51%
Mo 202.031†	-392.0	-0.0170 mg/L	0.00070	-0.0170 mg/L	0.00070	4.12%
Na 589.592†	3592665.9	342.3 mg/L	2.70	342.3 mg/L	2.70	0.79%
Ni 231.604†	243.1	0.0069 mg/L	0.00011	0.0069 mg/L	0.00011	1.64%
Pb 220.353†	-348.3	0.0060 mg/L	0.00077	0.0060 mg/L	0.00077	12.72%
Sb 206.836†	25.6	0.0200 mg/L	0.00076	0.0200 mg/L	0.00076	3.79%
Se 196.026†	38.7	-0.0324 mg/L	0.00647	-0.0324 mg/L	0.00647	19.98%
Sn 189.927†	-636.0	-0.0810 mg/L	0.00151	-0.0810 mg/L	0.00151	1.86%
Ti 337.279†	30.2	0.0018 mg/L	0.00027	0.0018 mg/L	0.00027	15.51%
Tl 351.924†	-2287.1	0.0098 mg/L	0.00125	0.0098 mg/L	0.00125	12.67%
V 290.880†	4767.3	-0.0011 mg/L	0.00068	-0.0011 mg/L	0.00068	62.97%
Zn 206.200†	2823.7	-0.0097 mg/L	0.00095	-0.0097 mg/L	0.00095	9.83%
Zr 343.823†	3564.0	0.0009 mg/L	0.00014	0.0009 mg/L	0.00014	15.82%

Sequence No.: 123

Sample ID: B371655-SRME

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 125

Date Collected: 4/16/2024 10:18:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371655-SRME

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	3974570.5	83.54 %		0.333			0.40%
Y radial	160839.4	91.57 %		0.673			0.74%
Ag 328.068†	-5986.1	-0.0143 mg/L		0.00036	-0.0143 mg/L	0.00036	2.52%
Al 396.153†	1505840.3	418.7 mg/L		7.67	418.7 mg/L	7.67	1.83%
As 188.979†	-294.0	-0.0088 mg/L		0.00309	-0.0088 mg/L	0.00309	35.15%
B 208.889†	1208473.8	72.47 mg/L		0.272	72.47 mg/L	0.272	0.38%
Ba 233.527†	4278.5	-0.0223 mg/L		0.00044	-0.0223 mg/L	0.00044	1.97%
Be 313.107†	128.1	0.0002 mg/L		0.00003	0.0002 mg/L	0.00003	13.52%
Ca 317.933†	2566801.6	399.7 mg/L		6.89	399.7 mg/L	6.89	1.72%
Cd 228.802†	-217.7	0.0049 mg/L		0.00015	0.0049 mg/L	0.00015	3.09%
Co 228.616†	-17.3	-0.0002 mg/L		0.00021	-0.0002 mg/L	0.00021	84.93%
Cr 267.716†	28.8	0.0003 mg/L		0.00011	0.0003 mg/L	0.00011	40.53%
Cu 327.393†	13109.2	0.0828 mg/L		0.00083	0.0828 mg/L	0.00083	1.00%
Fe 238.204†	811960.7	375.2 mg/L		3.24	375.2 mg/L	3.24	0.86%
K 766.490†	518347.0	172.7 mg/L		1.64	172.7 mg/L	1.64	0.95%
Mg 285.213†	1262198.5	160.5 mg/L		2.72	160.5 mg/L	2.72	1.70%
Mn 257.610†	-571.0	0.0041 mg/L		0.00069	0.0041 mg/L	0.00069	16.90%
Mo 202.031†	-440.5	-0.0191 mg/L		0.00055	-0.0191 mg/L	0.00055	2.89%
Na 589.592†	3997074.1	380.9 mg/L		6.89	380.9 mg/L	6.89	1.81%
Ni 231.604†	251.2	0.0071 mg/L		0.00036	0.0071 mg/L	0.00036	5.05%
Pb 220.353†	-410.7	0.0047 mg/L		0.00066	0.0047 mg/L	0.00066	13.88%
Sb 206.836†	22.6	0.0211 mg/L		0.00298	0.0211 mg/L	0.00298	14.10%
Se 196.026†	33.9	-0.0409 mg/L		0.00066	-0.0409 mg/L	0.00066	1.61%
Sn 189.927†	-662.6	-0.0844 mg/L		0.00145	-0.0844 mg/L	0.00145	1.71%
Ti 337.279†	39.3	0.0023 mg/L		0.00041	0.0023 mg/L	0.00041	17.79%
Tl 351.924†	-2611.5	0.0030 mg/L		0.00299	0.0030 mg/L	0.00299	98.76%
V 290.880†	5256.4	-0.0012 mg/L		0.00086	-0.0012 mg/L	0.00086	69.54%
Zn 206.200†	2626.4	-0.0185 mg/L		0.00039	-0.0185 mg/L	0.00039	2.12%
Zr 343.823†	3962.1	0.0010 mg/L		0.00013	0.0010 mg/L	0.00013	12.01%

Sequence No.: 124

Sample ID: B371655-SRME

Analyst:

Autosampler Location: 126

Date Collected: 4/16/2024 10:24:15 PM

Data Type: Original

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Analyte	Mean	Corrected	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
	Intensity	Conc.	Units			Units		
Y axial	4015731.7	84.40	%	0.957				1.13%
Y radial	164187.9	93.47	%	0.692				0.74%
Ag 328.068†	-6464.5	-0.0157	mg/L	0.00012	-0.0157	mg/L	0.00012	0.76%
Al 396.153†	1591494.7	442.5	mg/L	0.61	442.5	mg/L	0.61	0.14%
As 188.979†	-318.8	-0.0132	mg/L	0.00160	-0.0132	mg/L	0.00160	12.16%
B 208.889†	1299028.5	77.90	mg/L	0.297	77.90	mg/L	0.297	0.38%
Ba 233.527†	4568.1	-0.0230	mg/L	0.00036	-0.0230	mg/L	0.00036	1.59%
Be 313.107†	120.5	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	13.73%
Ca 317.933†	2728189.5	424.8	mg/L	1.42	424.8	mg/L	1.42	0.33%
Cd 228.802†	-243.4	0.0051	mg/L	0.00016	0.0051	mg/L	0.00016	3.17%
Co 228.616†	-27.4	-0.0004	mg/L	0.00015	-0.0004	mg/L	0.00015	41.25%
Cr 267.716†	-25.4	-0.0002	mg/L	0.00024	-0.0002	mg/L	0.00024	125.49%
Cu 327.393†	11993.2	0.0758	mg/L	0.00128	0.0758	mg/L	0.00128	1.69%
Fe 238.204†	853800.6	394.6	mg/L	0.99	394.6	mg/L	0.99	0.25%
K 766.490†	577290.6	192.4	mg/L	0.36	192.4	mg/L	0.36	0.19%
Mg 285.213†	1333784.6	169.6	mg/L	0.30	169.6	mg/L	0.30	0.18%
Mn 257.610†	-617.8	0.0035	mg/L	0.00017	0.0035	mg/L	0.00017	4.96%
Mo 202.031†	-467.5	-0.0203	mg/L	0.00020	-0.0203	mg/L	0.00020	1.01%
Na 589.592†	4504589.0	429.2	mg/L	2.36	429.2	mg/L	2.36	0.55%
Ni 231.604†	242.1	0.0069	mg/L	0.00032	0.0069	mg/L	0.00032	4.58%
Pb 220.353†	-455.9	0.0032	mg/L	0.00192	0.0032	mg/L	0.00192	60.74%
Sb 206.836†	13.7	0.0205	mg/L	0.00436	0.0205	mg/L	0.00436	21.26%
Se 196.026†	29.7	-0.0471	mg/L	0.00745	-0.0471	mg/L	0.00745	15.80%
Sn 189.927†	-660.5	-0.0842	mg/L	0.00309	-0.0842	mg/L	0.00309	3.67%
Ti 337.279†	30.0	0.0017	mg/L	0.00015	0.0017	mg/L	0.00015	8.63%
Tl 351.924†	-2831.1	-0.0047	mg/L	0.00401	-0.0047	mg/L	0.00401	86.01%
V 290.880†	5780.4	-0.0001	mg/L	0.00063	-0.0001	mg/L	0.00063	>999.9%
Zn 206.200†	2462.3	-0.0265	mg/L	0.00079	-0.0265	mg/L	0.00079	2.99%
Zr 343.823†	4282.8	0.0014	mg/L	0.00004	0.0014	mg/L	0.00004	2.81%

Autosampler Location: 11
Date Collected: 4/16/2024 10:29:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y axial	4114422.2	86.47	%	1.192				1.38%
Y radial	168262.4	95.79	%	3.521				3.68%
Ag 328.068†	-1170.2	-0.0023	mg/L	0.00004	-0.0023	mg/L	0.00004	1.84%
QC value	within limits	for Ag 328.068	Recovery =	Not calculated				
Al 396.153†	865917.1	240.8	mg/L	10.09	240.8	mg/L	10.09	4.19%
QC value	within limits	for Al 396.153	Recovery =	96.30%				
As 188.979†	-89.0	0.0026	mg/L	0.00096	0.0026	mg/L	0.00096	36.51%
QC value	within limits	for As 188.979	Recovery =	Not calculated				
B 208.889†	19216.2	1.153	mg/L	0.0432	1.153	mg/L	0.0432	3.75%
QC value	greater than the upper limit	for B 208.889	Recovery =	Not calculated				
Ba 233.527†	1580.2	-0.0025	mg/L	0.00033	-0.0025	mg/L	0.00033	13.34%
QC value	within limits	for Ba 233.527	Recovery =	Not calculated				
Be 313.107†	51.7	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	73.82%
QC value	within limits	for Be 313.107	Recovery =	Not calculated				
Ca 317.933†	1529321.1	238.1	mg/L	9.71	238.1	mg/L	9.71	4.08%
QC value	within limits	for Ca 317.933	Recovery =	95.25%				
Cd 228.802†	-90.5	0.0010	mg/L	0.00012	0.0010	mg/L	0.00012	11.41%
QC value	within limits	for Cd 228.802	Recovery =	Not calculated				
Co 228.616†	-55.9	-0.0006	mg/L	0.00013	-0.0006	mg/L	0.00013	20.84%
QC value	within limits	for Co 228.616	Recovery =	Not calculated				

Cr 267.716†	340.7	0.0029 mg/L	0.00018	0.0029 mg/L	0.00018	6.13%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	6380.4	0.0403 mg/L	0.00091	0.0403 mg/L	0.00091	2.26%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	206014.8	95.20 mg/L	3.897	95.20 mg/L	3.897	4.09%
QC value within limits for Fe 238.204 Recovery = 95.20%						
K 766.490†	968.6	0.3228 mg/L	0.06274	0.3228 mg/L	0.06274	19.44%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1767882.5	224.6 mg/L	9.16	224.6 mg/L	9.16	4.08%
QC value within limits for Mg 285.213 Recovery = 89.83%						
Mn 257.610†	-67.7	0.0044 mg/L	0.00033	0.0044 mg/L	0.00033	7.54%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-104.4	-0.0045 mg/L	0.00012	-0.0045 mg/L	0.00012	2.72%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	4691.6	0.4471 mg/L	0.05240	0.4471 mg/L	0.05240	11.72%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	261.4	0.0073 mg/L	0.00039	0.0073 mg/L	0.00039	5.38%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-248.4	0.0048 mg/L	0.00193	0.0048 mg/L	0.00193	39.92%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	33.0	0.0098 mg/L	0.00048	0.0098 mg/L	0.00048	4.90%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	74.9	-0.0226 mg/L	0.01081	-0.0226 mg/L	0.01081	47.86%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-574.6	-0.0732 mg/L	0.00048	-0.0732 mg/L	0.00048	0.66%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	24.3	0.0014 mg/L	0.00010	0.0014 mg/L	0.00010	6.90%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-700.9	-0.0028 mg/L	0.00313	-0.0028 mg/L	0.00313	112.96%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	1367.9	-0.0001 mg/L	0.00114	-0.0001 mg/L	0.00114	784.44%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	1084.1	0.0099 mg/L	0.00026	0.0099 mg/L	0.00026	2.59%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	1150.2	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	18.32%
QC Failed. Continue with analysis.						

Sequence No.: 126

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/16/2024 10:35:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4270906.7	89.76 %	4.448			4.96%
Y radial	162427.2	92.47 %	1.642			1.78%
Ag 328.068†	96874.2	0.3676 mg/L	0.01828	0.3676 mg/L	0.01828	4.97%
QC value within limits for Ag 328.068 Recovery = 91.91%						
Al 396.153†	895621.8	249.0 mg/L	5.32	249.0 mg/L	5.32	2.14%
QC value within limits for Al 396.153 Recovery = 99.61%						
As 188.979†	348.2	0.1493 mg/L	0.08101	0.1493 mg/L	0.08101	54.24%
QC value less than the lower limit for As 188.979 Recovery = 74.67%						
B 208.889†	12706.4	0.7622 mg/L	0.16492	0.7622 mg/L	0.16492	21.64%
QC value greater than the upper limit for B 208.889 Recovery = Not calculated						
Ba 233.527†	152454.1	0.9649 mg/L	0.03486	0.9649 mg/L	0.03486	3.61%
QC value within limits for Ba 233.527 Recovery = 96.49%						
Be 313.107†	409224.4	1.012 mg/L	0.0212	1.012 mg/L	0.0212	2.10%
QC value within limits for Be 313.107 Recovery = 101.16%						
Ca 317.933†	1596728.1	248.6 mg/L	5.08	248.6 mg/L	5.08	2.04%
QC value within limits for Ca 317.933 Recovery = 99.45%						
Cd 228.802†	203178.1	1.975 mg/L	0.0738	1.975 mg/L	0.0738	3.74%
QC value within limits for Cd 228.802 Recovery = 98.73%						
Co 228.616†	81987.6	0.8827 mg/L	0.03339	0.8827 mg/L	0.03339	3.78%
QC value within limits for Co 228.616 Recovery = 88.27%						
Cr 267.716†	109861.1	0.9360 mg/L	0.03457	0.9360 mg/L	0.03457	3.69%

Element	QC value	within limits	for Cr	267.716	Recovery =	93.60%			
Cu	327.393†		156574.3	0.9890 mg/L	0.03452	0.9890 mg/L	0.03452	3.49%	
Fe	238.204†		214122.1	98.95 mg/L	2.109	98.95 mg/L	2.109	2.13%	
K	766.490†		592.7	0.1975 mg/L	0.01890	0.1975 mg/L	0.01890	9.57%	
Mg	285.213†		1842497.0	234.1 mg/L	4.78	234.1 mg/L	4.78	2.04%	
Mn	257.610†		22114.9	0.9845 mg/L	0.01489	0.9845 mg/L	0.01489	1.51%	
Mo	202.031†		-75.9	-0.0033 mg/L	0.00229	-0.0033 mg/L	0.00229	69.65%	
Na	589.592†		2396.0	0.2283 mg/L	0.00785	0.2283 mg/L	0.00785	3.44%	
Ni	231.604†		62884.8	1.743 mg/L	0.0639	1.743 mg/L	0.0639	3.66%	
Pb	220.353†		561.4	0.0767 mg/L	0.03255	0.0767 mg/L	0.03255	42.46%	
Sb	206.836†		4542.7	0.7929 mg/L	0.51675	0.7929 mg/L	0.51675	65.17%	
Se	196.026†		684.8	0.3280 mg/L	0.27058	0.3280 mg/L	0.27058	82.49%	
Sn	189.927†		-450.7	-0.0574 mg/L	0.02547	-0.0574 mg/L	0.02547	44.35%	
Ti	337.279†		33.5	0.0019 mg/L	0.00040	0.0019 mg/L	0.00040	20.43%	
Tl	351.924†		1126.3	0.1640 mg/L	0.07569	0.1640 mg/L	0.07569	46.16%	
V	290.880†		196150.6	0.9624 mg/L	0.03535	0.9624 mg/L	0.03535	3.67%	
Zn	206.200†		118400.8	1.808 mg/L	0.0698	1.808 mg/L	0.0698	3.86%	
Zr	343.823†		962.5	0.0001 mg/L	0.00137	0.0001 mg/L	0.00137	>999.9%	
QC	Failed.	Continue with analysis.							

Sequence No.: 127

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 10:40:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEO-CCV@ 23J0975

Analyte		Mean	Corrected	Calib.	Std.Dev.	Conc.	Units	Std.Dev.	RSD
		Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y axial		4455728.0	93.65	%	0.856				0.91%
Y radial		171278.0	97.51	%	0.125				0.13%
Ag 328.068†		663402.0	2.455	mg/L	0.0039	2.455	mg/L	0.0039	0.16%
	QC value within limits for Ag 328.068			Recovery = 98.19%					
Al 396.153†		37200.8	10.07	mg/L	0.069	10.07	mg/L	0.069	0.69%
	QC value within limits for Al 396.153			Recovery = 100.75%					
As 188.979†		14688.5	5.027	mg/L	0.0591	5.027	mg/L	0.0591	1.18%
	QC value within limits for As 188.979			Recovery = 100.55%					
B 208.889†		96289.3	5.521	mg/L	0.0247	5.521	mg/L	0.0247	0.45%
	QC value greater than the upper limit for B 208.889			Recovery = 110.41%					
Ba 233.527†		803582.0	5.156	mg/L	0.0191	5.156	mg/L	0.0191	0.37%
	QC value within limits for Ba 233.527			Recovery = 103.13%					
Be 313.107†		2036933.5	5.034	mg/L	0.0423	5.034	mg/L	0.0423	0.84%
	QC value within limits for Be 313.107			Recovery = 100.68%					
Ca 317.933†		66178.3	10.30	mg/L	0.067	10.30	mg/L	0.067	0.65%
	QC value within limits for Ca 317.933			Recovery = 103.05%					
Cd 228.802†		537203.8	5.122	mg/L	0.0229	5.122	mg/L	0.0229	0.45%
	QC value within limits for Cd 228.802			Recovery = 102.45%					
Co 228.616†		478192.8	5.156	mg/L	0.0213	5.156	mg/L	0.0213	0.41%
	QC value within limits for Co 228.616			Recovery = 103.13%					
Cr 267.716†		597577.2	5.090	mg/L	0.0171	5.090	mg/L	0.0171	0.34%
	QC value within limits for Cr 267.716			Recovery = 101.81%					

Cu 327.393†	782879.8	4.963 mg/L	0.0229	4.963 mg/L	0.0229	0.46%
QC value within limits for Cu 327.393 Recovery = 99.25%						
Fe 238.204†	11350.6	5.272 mg/L	0.0451	5.272 mg/L	0.0451	0.86%
QC value within limits for Fe 238.204 Recovery = 105.45%						
K 766.490†	29936.1	9.977 mg/L	0.0562	9.977 mg/L	0.0562	0.56%
QC value within limits for K 766.490 Recovery = 99.77%						
Mg 285.213†	81334.1	10.31 mg/L	0.073	10.31 mg/L	0.073	0.71%
QC value within limits for Mg 285.213 Recovery = 103.07%						
Mn 257.610†	118110.6	5.217 mg/L	0.0302	5.217 mg/L	0.0302	0.58%
QC value within limits for Mn 257.610 Recovery = 104.34%						
Mo 202.031†	116581.8	5.050 mg/L	0.0205	5.050 mg/L	0.0205	0.41%
QC value within limits for Mo 202.031 Recovery = 101.01%						
Na 589.592†	99172.6	9.450 mg/L	0.0784	9.450 mg/L	0.0784	0.83%
QC value within limits for Na 589.592 Recovery = 94.50%						
Ni 231.604†	184632.1	5.117 mg/L	0.0197	5.117 mg/L	0.0197	0.38%
QC value within limits for Ni 231.604 Recovery = 102.33%						
Pb 220.353†	57517.9	5.100 mg/L	0.0588	5.100 mg/L	0.0588	1.15%
QC value within limits for Pb 220.353 Recovery = 101.99%						
Sb 206.836†	28148.8	4.944 mg/L	0.0472	4.944 mg/L	0.0472	0.95%
QC value within limits for Sb 206.836 Recovery = 98.88%						
Se 196.026†	8742.4	5.070 mg/L	0.0413	5.070 mg/L	0.0413	0.82%
QC value within limits for Se 196.026 Recovery = 101.40%						
Sn 189.927†	39858.2	5.073 mg/L	0.0612	5.073 mg/L	0.0612	1.21%
QC value within limits for Sn 189.927 Recovery = 101.47%						
Ti 337.279†	86190.9	5.009 mg/L	0.0273	5.009 mg/L	0.0273	0.55%
QC value within limits for Ti 337.279 Recovery = 100.18%						
Tl 351.924†	27321.9	2.476 mg/L	0.0199	2.476 mg/L	0.0199	0.80%
QC value within limits for Tl 351.924 Recovery = 99.05%						
V 290.880†	1045994.1	5.170 mg/L	0.0199	5.170 mg/L	0.0199	0.39%
QC value within limits for V 290.880 Recovery = 103.41%						
Zn 206.200†	340182.1	5.224 mg/L	0.0208	5.224 mg/L	0.0208	0.40%
QC value within limits for Zn 206.200 Recovery = 104.49%						
Zr 343.823†	1980596.6	4.993 mg/L	0.0115	4.993 mg/L	0.0115	0.23%
QC Failed. Retry.						

Sequence No.: 128

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/16/2024 10:42:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4445722.8	93.44 %	0.664			0.71%
Y radial	172830.6	98.39 %	1.331			1.35%
Ag 328.068†	666332.0	2.466 mg/L	0.0119	2.466 mg/L	0.0119	0.48%
QC value within limits for Ag 328.068 Recovery = 98.63%						
Al 396.153†	36905.3	9.992 mg/L	0.0822	9.992 mg/L	0.0822	0.82%
QC value within limits for Al 396.153 Recovery = 99.92%						
As 188.979†	14552.0	4.981 mg/L	0.1147	4.981 mg/L	0.1147	2.30%
QC value within limits for As 188.979 Recovery = 99.62%						
B 208.889†	96777.9	5.549 mg/L	0.0418	5.549 mg/L	0.0418	0.75%
QC value greater than the upper limit for B 208.889 Recovery = 110.99%						
Ba 233.527†	802067.4	5.147 mg/L	0.0429	5.147 mg/L	0.0429	0.83%
QC value within limits for Ba 233.527 Recovery = 102.93%						
Be 313.107†	2075240.1	5.129 mg/L	0.1135	5.129 mg/L	0.1135	2.21%
QC value within limits for Be 313.107 Recovery = 102.58%						
Ca 317.933†	66028.3	10.28 mg/L	0.083	10.28 mg/L	0.083	0.81%
QC value within limits for Ca 317.933 Recovery = 102.82%						
Cd 228.802†	537619.5	5.127 mg/L	0.0448	5.127 mg/L	0.0448	0.87%
QC value within limits for Cd 228.802 Recovery = 102.55%						
Co 228.616†	477957.5	5.154 mg/L	0.0428	5.154 mg/L	0.0428	0.83%
QC value within limits for Co 228.616 Recovery = 103.08%						
Cr 267.716†	595430.8	5.072 mg/L	0.0449	5.072 mg/L	0.0449	0.89%
QC value within limits for Cr 267.716 Recovery = 101.44%						
Cu 327.393†	793362.0	5.029 mg/L	0.0461	5.029 mg/L	0.0461	0.92%

QC value within limits for Cu 327.393	Recovery = 100.58%				
Fe 238.204†	11420.0	5.304 mg/L	0.0574	5.304 mg/L	0.0574 1.08%
QC value within limits for Fe 238.204	Recovery = 106.09%				
K 766.490†	30099.9	10.03 mg/L	0.081	10.03 mg/L	0.081 0.81%
QC value within limits for K 766.490	Recovery = 100.31%				
Mg 285.213†	81201.4	10.29 mg/L	0.073	10.29 mg/L	0.073 0.71%
QC value within limits for Mg 285.213	Recovery = 102.90%				
Mn 257.610†	119081.0	5.260 mg/L	0.0457	5.260 mg/L	0.0457 0.87%
QC value within limits for Mn 257.610	Recovery = 105.20%				
Mo 202.031†	116862.5	5.063 mg/L	0.0406	5.063 mg/L	0.0406 0.80%
QC value within limits for Mo 202.031	Recovery = 101.25%				
Na 589.592†	106286.0	10.13 mg/L	0.238	10.13 mg/L	0.238 2.35%
QC value within limits for Na 589.592	Recovery = 101.28%				
Ni 231.604†	183604.1	5.088 mg/L	0.0474	5.088 mg/L	0.0474 0.93%
QC value within limits for Ni 231.604	Recovery = 101.76%				
Pb 220.353†	56775.4	5.034 mg/L	0.0956	5.034 mg/L	0.0956 1.90%
QC value within limits for Pb 220.353	Recovery = 100.67%				
Sb 206.836†	27983.2	4.915 mg/L	0.0912	4.915 mg/L	0.0912 1.86%
QC value within limits for Sb 206.836	Recovery = 98.30%				
Se 196.026†	8734.4	5.065 mg/L	0.1540	5.065 mg/L	0.1540 3.04%
QC value within limits for Se 196.026	Recovery = 101.31%				
Sn 189.927†	39271.0	4.999 mg/L	0.1042	4.999 mg/L	0.1042 2.09%
QC value within limits for Sn 189.927	Recovery = 99.97%				
Ti 337.279†	86773.4	5.043 mg/L	0.0362	5.043 mg/L	0.0362 0.72%
QC value within limits for Ti 337.279	Recovery = 100.86%				
Tl 351.924†	27342.9	2.478 mg/L	0.0522	2.478 mg/L	0.0522 2.11%
QC value within limits for Tl 351.924	Recovery = 99.12%				
V 290.880†	1050117.8	5.191 mg/L	0.0390	5.191 mg/L	0.0390 0.75%
QC value within limits for V 290.880	Recovery = 103.81%				
Zn 206.200†	336668.0	5.170 mg/L	0.0501	5.170 mg/L	0.0501 0.97%
QC value within limits for Zn 206.200	Recovery = 103.41%				
Zr 343.823†	1986359.4	5.007 mg/L	0.0372	5.007 mg/L	0.0372 0.74%
QC Failed. Continue with analysis.					

Sequence No.: 129

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 10:48:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4603753.8	96.76 %	2.253			2.33%
Y radial	175979.3	100.2 %	1.40			1.39%
Ag 328.068†	2209.1	0.0082 mg/L	0.00089	0.0082 mg/L	0.00089	10.78%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-7.7	-0.0022 mg/L	0.00050	-0.0022 mg/L	0.00050	22.85%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	16.4	0.0053 mg/L	0.00201	0.0053 mg/L	0.00201	37.60%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	10979.8	0.6584 mg/L	0.02399	0.6584 mg/L	0.02399	3.64%
QC value greater than the upper limit for B 208.889	Recovery = Not calculated					
Ba 233.527†	42.3	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	5.07%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	15.5	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	67.80%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	68.3	0.0106 mg/L	0.00178	0.0106 mg/L	0.00178	16.74%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	40.2	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	36.33%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	6.8	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	181.25%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	36.9	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	17.32%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	6504.7	0.0411 mg/L	0.00229	0.0411 mg/L	0.00229	5.56%
QC value greater than the upper limit for Cu 327.393	Recovery = Not calculated					

Fe 238.204†	2.7	0.0013 mg/L	0.00065	0.0013 mg/L	0.00065	51.52%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	206.8	0.0689 mg/L	0.01110	0.0689 mg/L	0.01110	16.10%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	14.4	0.0018 mg/L	0.00056	0.0018 mg/L	0.00056	30.67%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	7.0	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	15.95%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	41.1	0.0018 mg/L	0.00022	0.0018 mg/L	0.00022	12.09%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	577.6	0.0550 mg/L	0.00619	0.0550 mg/L	0.00619	11.25%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	6.0	0.0002 mg/L	0.00022	0.0002 mg/L	0.00022	129.96%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	29.5	0.0025 mg/L	0.00056	0.0025 mg/L	0.00056	21.91%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	11.8	0.0021 mg/L	0.00016	0.0021 mg/L	0.00016	7.76%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	6.6	0.0038 mg/L	0.00181	0.0038 mg/L	0.00181	47.47%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-0.9	-0.0001 mg/L	0.00052	-0.0001 mg/L	0.00052	463.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	13.6	0.0008 mg/L	0.00028	0.0008 mg/L	0.00028	35.32%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-25.9	-0.0024 mg/L	0.00519	-0.0024 mg/L	0.00519	217.07%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	233.5	0.0012 mg/L	0.00093	0.0012 mg/L	0.00093	80.37%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	655.5	0.0100 mg/L	0.00046	0.0100 mg/L	0.00046	4.62%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	2.4	0.0000 mg/L	0.00013	0.0000 mg/L	0.00013	>999.9%
QC Failed. Retry.						

Sequence No.: 130

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/16/2024 10:51:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4614098.9	96.98 %	0.793			0.82%
Y radial	174473.9	99.33 %	0.776			0.78%
Ag 328.068†	1046.2	0.0039 mg/L	0.00039	0.0039 mg/L	0.00039	9.99%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	9.3	0.0025 mg/L	0.00465	0.0025 mg/L	0.00465	183.67%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	19.7	0.0065 mg/L	0.00107	0.0065 mg/L	0.00107	16.46%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	9993.1	0.5992 mg/L	0.00294	0.5992 mg/L	0.00294	0.49%
QC value greater than the upper limit for B 208.889 Recovery = Not calculated						
Ba 233.527†	32.5	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	12.52%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	17.3	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	98.59%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	59.2	0.0092 mg/L	0.00164	0.0092 mg/L	0.00164	17.81%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	40.2	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	27.92%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	4.9	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	101.58%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	34.4	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	37.71%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	5792.6	0.0366 mg/L	0.00024	0.0366 mg/L	0.00024	0.67%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	0.7	0.0003 mg/L	0.00028	0.0003 mg/L	0.00028	87.91%

QC value within limits for Fe 238.204	Recovery = Not calculated				
K 766.490†	169.2	0.0564 mg/L	0.02258	0.0564 mg/L	0.02258 40.05%
QC value within limits for K 766.490	Recovery = Not calculated				
Mg 285.213†	14.1	0.0018 mg/L	0.00044	0.0018 mg/L	0.00044 24.45%
QC value within limits for Mg 285.213	Recovery = Not calculated				
Mn 257.610†	9.1	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011 26.52%
QC value within limits for Mn 257.610	Recovery = Not calculated				
Mo 202.031†	25.8	0.0011 mg/L	0.00019	0.0011 mg/L	0.00019 17.08%
QC value within limits for Mo 202.031	Recovery = Not calculated				
Na 589.592†	477.1	0.0455 mg/L	0.00074	0.0455 mg/L	0.00074 1.63%
QC value within limits for Na 589.592	Recovery = Not calculated				
Ni 231.604†	-2.3	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009 147.25%
QC value within limits for Ni 231.604	Recovery = Not calculated				
Pb 220.353†	13.7	0.0011 mg/L	0.00116	0.0011 mg/L	0.00116 101.43%
QC value within limits for Pb 220.353	Recovery = Not calculated				
Sb 206.836†	6.7	0.0012 mg/L	0.00088	0.0012 mg/L	0.00088 74.38%
QC value within limits for Sb 206.836	Recovery = Not calculated				
Se 196.026†	2.8	0.0016 mg/L	0.00172	0.0016 mg/L	0.00172 104.72%
QC value within limits for Se 196.026	Recovery = Not calculated				
Sn 189.927†	-0.1	-0.0000 mg/L	0.00058	-0.0000 mg/L	0.00058 >999.9%
QC value within limits for Sn 189.927	Recovery = Not calculated				
Ti 337.279†	12.0	0.0007 mg/L	0.00028	0.0007 mg/L	0.00028 40.93%
QC value within limits for Ti 337.279	Recovery = Not calculated				
Tl 351.924†	-25.5	-0.0024 mg/L	0.00213	-0.0024 mg/L	0.00213 90.21%
QC value within limits for Tl 351.924	Recovery = Not calculated				
V 290.880†	86.5	0.0004 mg/L	0.00072	0.0004 mg/L	0.00072 169.06%
QC value within limits for V 290.880	Recovery = Not calculated				
Zn 206.200†	556.3	0.0085 mg/L	0.00008	0.0085 mg/L	0.00008 0.92%
QC value within limits for Zn 206.200	Recovery = Not calculated				
Zr 343.823†	-49.3	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008 62.21%
QC Failed. Continue with analysis.					

S103402

Instrument: ICP2

Calibration ID: 2400434

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103402-IFA1	QC		1		24C0959	24D0241	
S103402-IFB1	QC		2		24D0240	24D0241	
S103402-IFA2	QC		3		24C0959	24D0241	
S103402-IFB2	QC		4		24D0240	24D0241	
S103402-CCV1	QC		5		24D0029	24D0241	
S103402-CCB1	QC		6		23J0970	24D0241	
B370707-BLK2	QC		7			24D0241	Added 4/19/2024 by HNN
B370707-BS2	QC		8			24D0241	Added 4/19/2024 by HNN
B370707-BSD2	QC		9			24D0241	Added 4/19/2024 by HNN
B370707-MS2	QC		10			24D0241	Added 4/19/2024 by HNN
B370707-MSD2	QC		11			24D0241	Added 4/19/2024 by HNN
S103402-CCV2	QC		12		24D0029	24D0241	
S103402-CCB2	QC		13		23J0970	24D0241	
24D0735-04	Zinc 6010 Dissolved	B	14			24D0241	FIELD FILTERED CAT B - Repo
24D0735-03	Zinc 6010 Dissolved	B	15			24D0241	FIELD FILTERED CAT B - Repo
24D0735-05	Zinc 6010 Dissolved	B	16			24D0241	FIELD FILTERED CAT B - Repo
24D0735-06	Zinc 6010 Dissolved	B	17			24D0241	FIELD FILTERED CAT B - Repo
24D0735-07	Zinc 6010 Dissolved	A	18			24D0241	FIELD FILTERED CAT B - Repo
24D0735-08	Zinc 6010 Dissolved	B	19			24D0241	FIELD FILTERED CAT B - Repo
24D0735-09	Zinc 6010 Dissolved	B	20			24D0241	FIELD FILTERED CAT B - Repo
24D0735-10	Zinc 6010 Dissolved	B	21			24D0241	FIELD FILTERED CAT B - Repo
24D0735-11	Zinc 6010 Dissolved	A	22			24D0241	FIELD FILTERED CAT B - Repo
24D0735-12	Zinc 6010 Dissolved	A	23			24D0241	FIELD FILTERED CAT B - Repo
S103402-CCV3	QC		24		24D0029	24D0241	
S103402-CCB3	QC		25		23J0970	24D0241	
24D0735-13	Zinc 6010 Dissolved	A	26			24D0241	FIELD FILTERED CAT B - Repo
24D0735-14	Zinc 6010 Dissolved	A	27			24D0241	FIELD FILTERED CAT B - Repo
24D0735-15	Zinc 6010 Dissolved	B	28			24D0241	FIELD FILTERED CAT B - Repo
24D0735-16	Zinc 6010 Dissolved	A	29			24D0241	FIELD FILTERED CAT B - Repo
24D0735-17	Zinc 6010 Dissolved	B	30			24D0241	FIELD FILTERED CAT B - Repo
S103402-CCV4	QC		31		24D0029	24D0241	
S103402-CCB4	QC		32		23J0970	24D0241	
S103402-IFA3	QC		33		24C0959	24D0241	

Samples Loaded By

Date

Data Processed By

Date

S103402

Instrument: ICP2

Calibration ID: 2400434

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103402-IFB3	QC		34		24D0240	24D0241	

=====

Analysis Begun

Start Time: 4/18/2024 11:16:17 AM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/18/2024 11:16:18 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 11:16:46 AM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 11

Autosampler Location: 7

Sample ID: RINSE

Date Collected: 4/18/2024 11:16:46 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5213787.3	103.1 %	0.60			0.58%
Y radial	187502.9	107.0 %	2.07			1.94%
Ag 328.068†	346.6	0.0012 mg/L	0.00014	0.0012 mg/L	0.00014	11.43%
Al 396.153†	-7.8	-0.0021 mg/L	0.00996	-0.0021 mg/L	0.00996	472.86%
As 188.979†	5.9	0.0017 mg/L	0.00032	0.0017 mg/L	0.00032	18.54%
B 208.889†	4157.4	0.2306 mg/L	0.00119	0.2306 mg/L	0.00119	0.52%
Ba 233.527†	28.0	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	14.50%
Be 313.107†	20.1	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	117.59%
Ca 317.933†	-0.1	-0.0000 mg/L	0.00470	-0.0000 mg/L	0.00470	>999.9%
Cd 228.802†	27.8	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	31.90%
Co 228.616†	18.0	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	32.87%
Cr 267.716†	21.2	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	49.97%
Cu 327.393†	575.7	0.0034 mg/L	0.00030	0.0034 mg/L	0.00030	9.00%
Fe 238.204†	14.6	0.0065 mg/L	0.00144	0.0065 mg/L	0.00144	22.07%
K 766.490†	-18.9	-0.0062 mg/L	0.02787	-0.0062 mg/L	0.02787	451.36%
Mg 285.213†	8.5	0.0011 mg/L	0.00058	0.0011 mg/L	0.00058	54.51%
Mn 257.610†	2.0	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	157.36%
Mo 202.031†	8.0	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	22.17%
Na 589.592†	190.9	0.0182 mg/L	0.00105	0.0182 mg/L	0.00105	5.75%
Ni 231.604†	-13.0	-0.0003 mg/L	0.00026	-0.0003 mg/L	0.00026	78.13%
Pb 220.353†	5.1	0.0004 mg/L	0.00053	0.0004 mg/L	0.00053	128.35%
Sb 206.836†	-3.4	-0.0006 mg/L	0.00082	-0.0006 mg/L	0.00082	148.33%
Se 196.026†	5.7	0.0030 mg/L	0.00109	0.0030 mg/L	0.00109	36.67%
Sn 189.927†	-0.9	-0.0001 mg/L	0.00030	-0.0001 mg/L	0.00030	264.17%

Ti 337.279†	-19.5	-0.0011 mg/L	0.00004	-0.0011 mg/L	0.00004	3.53%
Tl 351.924†	16.9	0.0015 mg/L	0.00846	0.0015 mg/L	0.00846	570.50%
V 290.880†	546.9	0.0026 mg/L	0.00008	0.0026 mg/L	0.00008	3.13%
Zn 206.200†	508.0	0.0071 mg/L	0.00009	0.0071 mg/L	0.00009	1.29%
Zr 343.823†	-52.7	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	32.79%

Sequence No.: 12

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/18/2024 11:22:16 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	5206628.4	103.0	%	0.77				0.75%
Y radial	186340.7	106.4	%	0.94				0.89%
Ag 328.068†	318.2	0.0011 mg/L		0.00018	0.0011 mg/L		0.00018	15.74%
Al 396.153†	-6.3	-0.0017 mg/L		0.00787	-0.0017 mg/L		0.00787	462.63%
As 188.979†	3.1	0.0009 mg/L		0.00214	0.0009 mg/L		0.00214	243.87%
B 208.889†	3786.1	0.2100 mg/L		0.00480	0.2100 mg/L		0.00480	2.29%
Ba 233.527†	31.4	0.0002 mg/L		0.00001	0.0002 mg/L		0.00001	6.22%
Be 313.107†	36.1	0.0001 mg/L		0.00002	0.0001 mg/L		0.00002	22.88%
Ca 317.933†	5.3	0.0008 mg/L		0.00190	0.0008 mg/L		0.00190	236.47%
Cd 228.802†	10.9	0.0001 mg/L		0.00012	0.0001 mg/L		0.00012	148.83%
Co 228.616†	22.5	0.0002 mg/L		0.00001	0.0002 mg/L		0.00001	3.06%
Cr 267.716†	31.9	0.0003 mg/L		0.00021	0.0003 mg/L		0.00021	85.37%
Cu 327.393†	432.0	0.0025 mg/L		0.00010	0.0025 mg/L		0.00010	3.79%
Fe 238.204†	12.3	0.0055 mg/L		0.00043	0.0055 mg/L		0.00043	7.75%
K 766.490†	55.1	0.0180 mg/L		0.00905	0.0180 mg/L		0.00905	50.33%
Mg 285.213†	10.2	0.0013 mg/L		0.00027	0.0013 mg/L		0.00027	21.23%
Mn 257.610†	5.0	0.0002 mg/L		0.00009	0.0002 mg/L		0.00009	42.69%
Mo 202.031†	3.9	0.0002 mg/L		0.00008	0.0002 mg/L		0.00008	51.36%
Na 589.592†	218.2	0.0208 mg/L		0.00442	0.0208 mg/L		0.00442	21.22%
Ni 231.604†	-12.0	-0.0003 mg/L		0.00020	-0.0003 mg/L		0.00020	63.97%
Pb 220.353†	-2.1	-0.0002 mg/L		0.00053	-0.0002 mg/L		0.00053	297.59%
Sb 206.836†	0.4	0.0001 mg/L		0.00001	0.0001 mg/L		0.00001	13.44%
Se 196.026†	5.2	0.0027 mg/L		0.00043	0.0027 mg/L		0.00043	15.77%
Sn 189.927†	0.3	0.0000 mg/L		0.00011	0.0000 mg/L		0.00011	336.23%
Ti 337.279†	-13.7	-0.0008 mg/L		0.00017	-0.0008 mg/L		0.00017	21.61%
Tl 351.924†	28.0	0.0025 mg/L		0.00132	0.0025 mg/L		0.00132	53.69%
V 290.880†	395.2	0.0019 mg/L		0.00028	0.0019 mg/L		0.00028	15.09%
Zn 206.200†	446.6	0.0062 mg/L		0.00010	0.0062 mg/L		0.00010	1.67%
Zr 343.823†	-20.8	-0.0000 mg/L		0.00002	-0.0000 mg/L		0.00002	46.03%

Sequence No.: 13

Sample ID: B371842-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 38

Date Collected: 4/18/2024 11:27:46 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371842-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4384423.8	86.73	%	0.310				0.36%
Y radial	172917.9	98.70	%	1.516				1.54%
Ag 328.068†	333.6	0.0012 mg/L		0.00034	0.0012 mg/L		0.00034	28.32%
Al 396.153†	216.3	0.0581 mg/L		0.00609	0.0581 mg/L		0.00609	10.49%
As 188.979†	-51.6	-0.0161 mg/L		0.00088	-0.0161 mg/L		0.00088	5.45%
B 208.889†	4800.8	0.2663 mg/L		0.00064	0.2663 mg/L		0.00064	0.24%
Ba 233.527†	4192.7	0.0256 mg/L		0.00018	0.0256 mg/L		0.00018	0.71%
Be 313.107†	30.2	0.0000 mg/L		0.00005	0.0000 mg/L		0.00005	191.65%
Ca 317.933†	910.1	0.1384 mg/L		0.00482	0.1384 mg/L		0.00482	3.48%
Cd 228.802†	43.3	0.0008 mg/L		0.00006	0.0008 mg/L		0.00006	8.07%

Co 228.616†	29.0	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	27.58%
Cr 267.716†	155.2	0.0012 mg/L	0.00005	0.0012 mg/L	0.00005	4.01%
Cu 327.393†	6469.1	0.0378 mg/L	0.00077	0.0378 mg/L	0.00077	2.03%
Fe 238.204†	82.0	0.0365 mg/L	0.00227	0.0365 mg/L	0.00227	6.20%
K 766.490†	3820.4	1.248 mg/L	0.0303	1.248 mg/L	0.0303	2.43%
Mg 285.213†	289.4	0.0361 mg/L	0.00021	0.0361 mg/L	0.00021	0.60%
Mn 257.610†	161.4	0.0068 mg/L	0.00010	0.0068 mg/L	0.00010	1.43%
Mo 202.031†	-4.2	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	74.24%
Na 589.592†	Saturated2					
Ni 231.604†	114.0	0.0029 mg/L	0.00022	0.0029 mg/L	0.00022	7.41%
Pb 220.353†	27.1	0.0022 mg/L	0.00027	0.0022 mg/L	0.00027	12.46%
Sb 206.836†	18.8	0.0031 mg/L	0.00139	0.0031 mg/L	0.00139	45.19%
Se 196.026†	34.1	0.0177 mg/L	0.00327	0.0177 mg/L	0.00327	18.45%
Sn 189.927†	22.7	0.0027 mg/L	0.00039	0.0027 mg/L	0.00039	14.24%
Ti 337.279†	7.7	0.0004 mg/L	0.00060	0.0004 mg/L	0.00060	138.19%
Tl 351.924†	1.2	0.0001 mg/L	0.00578	0.0001 mg/L	0.00578	>999.9%
V 290.880†	1987.5	0.0094 mg/L	0.00012	0.0094 mg/L	0.00012	1.23%
Zn 206.200†	4743.3	0.0664 mg/L	0.00255	0.0664 mg/L	0.00255	3.84%
Zr 343.823†	61.4	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	80.00%

Sequence No.: 14

Sample ID: B371842-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 39

Date Collected: 4/18/2024 11:35:16 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371842-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4344324.3	85.94 %		0.134			0.16%
Y radial	170684.0	97.43 %		0.104			0.11%
Ag 328.068†	156899.7	0.5533 mg/L		0.00294	0.5533 mg/L	0.00294	0.53%
Al 396.153†	2140.0	0.5546 mg/L		0.00142	0.5546 mg/L	0.00142	0.26%
As 188.979†	1675.0	0.5199 mg/L		0.00750	0.5199 mg/L	0.00750	1.44%
B 208.889†	22251.0	1.209 mg/L		0.0083	1.209 mg/L	0.0083	0.69%
Ba 233.527†	87025.9	0.5308 mg/L		0.00262	0.5308 mg/L	0.00262	0.49%
Be 313.107†	199378.1	0.4800 mg/L		0.00277	0.4800 mg/L	0.00277	0.58%
Ca 317.933†	26484.8	4.029 mg/L		0.0241	4.029 mg/L	0.0241	0.60%
Cd 228.802†	60800.7	0.5398 mg/L		0.00254	0.5398 mg/L	0.00254	0.47%
Co 228.616†	46920.2	0.4788 mg/L		0.00264	0.4788 mg/L	0.00264	0.55%
Cr 267.716†	63321.3	0.4972 mg/L		0.00216	0.4972 mg/L	0.00216	0.43%
Cu 327.393†	184801.4	1.081 mg/L		0.0058	1.081 mg/L	0.0058	0.54%
Fe 238.204†	8762.6	3.909 mg/L		0.0331	3.909 mg/L	0.0331	0.85%
K 766.490†	16700.3	5.455 mg/L		0.0508	5.455 mg/L	0.0508	0.93%
Mg 285.213†	32022.7	3.994 mg/L		0.0239	3.994 mg/L	0.0239	0.60%
Mn 257.610†	11393.6	0.4817 mg/L		0.00278	0.4817 mg/L	0.00278	0.58%
Mo 202.031†	12165.5	0.4987 mg/L		0.00460	0.4987 mg/L	0.00460	0.92%
Na 589.592†	Saturated2						
Ni 231.604†	18657.9	0.4794 mg/L		0.00267	0.4794 mg/L	0.00267	0.56%
Pb 220.353†	5877.0	0.4832 mg/L		0.00328	0.4832 mg/L	0.00328	0.68%
Sb 206.836†	3212.9	0.5213 mg/L		0.00611	0.5213 mg/L	0.00611	1.17%
Se 196.026†	1153.3	0.6011 mg/L		0.00815	0.6011 mg/L	0.00815	1.36%
Sn 189.927†	3908.2	0.4672 mg/L		0.00356	0.4672 mg/L	0.00356	0.76%
Ti 337.279†	8854.0	0.4952 mg/L		0.00279	0.4952 mg/L	0.00279	0.56%
Tl 351.924†	6306.5	0.5529 mg/L		0.00637	0.5529 mg/L	0.00637	1.15%
V 290.880†	108903.6	0.5166 mg/L		0.00294	0.5166 mg/L	0.00294	0.57%
Zn 206.200†	79492.6	1.113 mg/L		0.0023	1.113 mg/L	0.0023	0.20%
Zr 343.823†	1361.5	0.0031 mg/L		0.00068	0.0031 mg/L	0.00068	22.22%

Sequence No.: 15

Sample ID: B371842-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 40

Date Collected: 4/18/2024 11:41:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371842-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4444641.4	87.93	%	1.535				1.75%
Y radial	174352.3	99.52	%	0.729				0.73%
Ag 328.068†	153760.5	0.5423	mg/L	0.00482	0.5423	mg/L	0.00482	0.89%
Al 396.153†	2084.2	0.5401	mg/L	0.00514	0.5401	mg/L	0.00514	0.95%
As 188.979†	1656.4	0.5141	mg/L	0.00492	0.5141	mg/L	0.00492	0.96%
B 208.889†	21486.3	1.167	mg/L	0.0127	1.167	mg/L	0.0127	1.09%
Ba 233.527†	85125.1	0.5192	mg/L	0.00614	0.5192	mg/L	0.00614	1.18%
Be 313.107†	196398.6	0.4729	mg/L	0.00517	0.4729	mg/L	0.00517	1.09%
Ca 317.933†	25793.5	3.924	mg/L	0.0117	3.924	mg/L	0.0117	0.30%
Cd 228.802†	59401.6	0.5273	mg/L	0.00563	0.5273	mg/L	0.00563	1.07%
Co 228.616†	45929.2	0.4687	mg/L	0.00531	0.4687	mg/L	0.00531	1.13%
Cr 267.716†	61768.0	0.4850	mg/L	0.00575	0.4850	mg/L	0.00575	1.19%
Cu 327.393†	180739.4	1.057	mg/L	0.0100	1.057	mg/L	0.0100	0.95%
Fe 238.204†	8562.3	3.820	mg/L	0.0074	3.820	mg/L	0.0074	0.19%
K 766.490†	16291.0	5.321	mg/L	0.0205	5.321	mg/L	0.0205	0.39%
Mg 285.213†	31508.8	3.930	mg/L	0.0176	3.930	mg/L	0.0176	0.45%
Mn 257.610†	11151.7	0.4715	mg/L	0.00273	0.4715	mg/L	0.00273	0.58%
Mo 202.031†	11928.7	0.4890	mg/L	0.00588	0.4890	mg/L	0.00588	1.20%
Na 589.592†	Saturated2							
Ni 231.604†	18157.6	0.4665	mg/L	0.00751	0.4665	mg/L	0.00751	1.61%
Pb 220.353†	5748.8	0.4727	mg/L	0.00753	0.4727	mg/L	0.00753	1.59%
Sb 206.836†	3159.3	0.5127	mg/L	0.00527	0.5127	mg/L	0.00527	1.03%
Se 196.026†	1140.0	0.5942	mg/L	0.00560	0.5942	mg/L	0.00560	0.94%
Sn 189.927†	3846.4	0.4598	mg/L	0.00699	0.4598	mg/L	0.00699	1.52%
Ti 337.279†	8655.9	0.4841	mg/L	0.00363	0.4841	mg/L	0.00363	0.75%
Tl 351.924†	6138.1	0.5381	mg/L	0.00406	0.5381	mg/L	0.00406	0.76%
V 290.880†	106869.8	0.5070	mg/L	0.00504	0.5070	mg/L	0.00504	0.99%
Zn 206.200†	77209.6	1.081	mg/L	0.0176	1.081	mg/L	0.0176	1.63%
Zr 343.823†	645.8	0.0014	mg/L	0.00022	0.0014	mg/L	0.00022	15.34%

Sequence No.: 16

Sample ID: B371842-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 41

Date Collected: 4/18/2024 11:48:31 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371842-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4129442.5	81.69	%	0.564				0.69%
Y radial	167468.9	95.59	%	0.607				0.64%
Ag 328.068†	161944.1	0.5710	mg/L	0.00179	0.5710	mg/L	0.00179	0.31%
Al 396.153†	2335.2	0.6077	mg/L	0.01225	0.6077	mg/L	0.01225	2.02%
As 188.979†	1768.2	0.5101	mg/L	0.00943	0.5101	mg/L	0.00943	1.85%
B 208.889†	22119.7	1.202	mg/L	0.0093	1.202	mg/L	0.0093	0.77%
Ba 233.527†	110798.7	0.6757	mg/L	0.00237	0.6757	mg/L	0.00237	0.35%
Be 313.107†	196180.8	0.4723	mg/L	0.00849	0.4723	mg/L	0.00849	1.80%
Ca 317.933†	5208230.6	792.3	mg/L	11.96	792.3	mg/L	11.96	1.51%
Cd 228.802†	59325.6	0.5259	mg/L	0.00086	0.5259	mg/L	0.00086	0.16%
Co 228.616†	45445.2	0.4621	mg/L	0.00157	0.4621	mg/L	0.00157	0.34%
Cr 267.716†	1675222.2	13.15	mg/L	0.040	13.15	mg/L	0.040	0.31%
Cu 327.393†	188400.9	1.102	mg/L	0.0034	1.102	mg/L	0.0034	0.31%
Fe 238.204†	8325.6	3.714	mg/L	0.0264	3.714	mg/L	0.0264	0.71%
K 766.490†	43695.9	14.27	mg/L	0.078	14.27	mg/L	0.078	0.55%
Mg 285.213†	496558.5	61.66	mg/L	1.123	61.66	mg/L	1.123	1.82%
Mn 257.610†	23305.5	0.9850	mg/L	0.00479	0.9850	mg/L	0.00479	0.49%
Mo 202.031†	11802.9	0.4838	mg/L	0.00325	0.4838	mg/L	0.00325	0.67%
Na 589.592†	Saturated2							
Ni 231.604†	22506.7	0.5784	mg/L	0.00474	0.5784	mg/L	0.00474	0.82%
Pb 220.353†	5270.9	0.4365	mg/L	0.00322	0.4365	mg/L	0.00322	0.74%
Sb 206.836†	4584.4	0.5001	mg/L	0.00516	0.5001	mg/L	0.00516	1.03%
Se 196.026†	1191.6	0.5285	mg/L	0.00542	0.5285	mg/L	0.00542	1.03%
Sn 189.927†	3199.3	0.3824	mg/L	0.00415	0.3824	mg/L	0.00415	1.09%

Ti 337.279†	8783.8	0.4913 mg/L	0.00289	0.4913 mg/L	0.00289	0.59%
Tl 351.924†	6645.0	0.5825 mg/L	0.00473	0.5825 mg/L	0.00473	0.81%
V 290.880†	109328.5	0.5186 mg/L	0.00149	0.5186 mg/L	0.00149	0.29%
Zn 206.200†	62106.6	0.9770 mg/L	0.00378	0.9770 mg/L	0.00378	0.39%
Zr 343.823†	462.5	0.0010 mg/L	0.00010	0.0010 mg/L	0.00010	10.63%

Sequence No.: 17

Sample ID: B371842-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 42

Date Collected: 4/18/2024 11:55:08 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371842-PS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4185543.9	82.80	%	0.399				0.48%
Y radial	167166.2	95.42	%	1.325				1.39%
Ag 328.068†	640203.0	2.257	mg/L	0.0225	2.257	mg/L	0.0225	0.99%
Al 396.153†	8274.6	2.145	mg/L	0.0229	2.145	mg/L	0.0229	1.07%
As 188.979†	6807.6	2.078	mg/L	0.0160	2.078	mg/L	0.0160	0.77%
B 208.889†	74695.5	4.046	mg/L	0.0402	4.046	mg/L	0.0402	0.99%
Ba 233.527†	340856.3	2.079	mg/L	0.0166	2.079	mg/L	0.0166	0.80%
Be 313.107†	810628.8	1.952	mg/L	0.0357	1.952	mg/L	0.0357	1.83%
Ca 317.933†	5074747.3	772.0	mg/L	13.16	772.0	mg/L	13.16	1.70%
Cd 228.802†	232152.8	2.058	mg/L	0.0161	2.058	mg/L	0.0161	0.78%
Co 228.616†	174251.6	1.777	mg/L	0.0122	1.777	mg/L	0.0122	0.69%
Cr 267.716†	1750852.3	13.74	mg/L	0.109	13.74	mg/L	0.109	0.79%
Cu 327.393†	732550.7	4.284	mg/L	0.0543	4.284	mg/L	0.0543	1.27%
Fe 238.204†	32870.6	14.66	mg/L	0.122	14.66	mg/L	0.122	0.83%
K 766.490†	94704.6	30.93	mg/L	0.174	30.93	mg/L	0.174	0.56%
Mg 285.213†	569701.9	70.79	mg/L	1.288	70.79	mg/L	1.288	1.82%
Mn 257.610†	55162.5	2.332	mg/L	0.0182	2.332	mg/L	0.0182	0.78%
Mo 202.031†	46901.8	1.922	mg/L	0.0106	1.922	mg/L	0.0106	0.55%
Na 589.592†	Saturated2							
Ni 231.604†	72582.1	1.865	mg/L	0.0150	1.865	mg/L	0.0150	0.80%
Pb 220.353†	21024.5	1.731	mg/L	0.0094	1.731	mg/L	0.0094	0.54%
Sb 206.836†	14004.0	2.045	mg/L	0.0103	2.045	mg/L	0.0103	0.50%
Se 196.026†	4458.9	2.235	mg/L	0.0197	2.235	mg/L	0.0197	0.88%
Sn 189.927†	14381.9	1.719	mg/L	0.0092	1.719	mg/L	0.0092	0.53%
Ti 337.279†	35337.8	1.976	mg/L	0.0201	1.976	mg/L	0.0201	1.01%
Tl 351.924†	26435.4	2.317	mg/L	0.0121	2.317	mg/L	0.0121	0.52%
V 290.880†	424477.2	2.014	mg/L	0.0177	2.014	mg/L	0.0177	0.88%
Zn 206.200†	253221.0	3.645	mg/L	0.0229	3.645	mg/L	0.0229	0.63%
Zr 343.823†	1036.6	0.0021	mg/L	0.00041	0.0021	mg/L	0.00041	19.72%

Sequence No.: 18

Sample ID: B371842-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 43

Date Collected: 4/18/2024 12:01:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371842-SRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	4807304.6	95.10	%	0.577				0.61%
Y radial	179319.4	102.4	%	0.60				0.58%
Ag 328.068†	114.1	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	52.13%
Al 396.153†	52.8	0.0141	mg/L	0.00106	0.0141	mg/L	0.00106	7.54%
As 188.979†	-2.8	-0.0082	mg/L	0.00221	-0.0082	mg/L	0.00221	26.95%
B 208.889†	2769.2	0.1535	mg/L	0.00191	0.1535	mg/L	0.00191	1.24%
Ba 233.527†	6876.2	0.0419	mg/L	0.00025	0.0419	mg/L	0.00025	0.61%
Be 313.107†	23.1	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	31.69%
Ca 317.933†	1057752.4	160.9	mg/L	1.78	160.9	mg/L	1.78	1.11%
Cd 228.802†	11.1	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	25.60%

Co 228.616†	402.7	0.0038 mg/L	0.00006	0.0038 mg/L	0.00006	1.54%
Cr 267.716†	309763.1	2.431 mg/L	0.0138	2.431 mg/L	0.0138	0.57%
Cu 327.393†	468.2	0.0027 mg/L	0.00023	0.0027 mg/L	0.00023	8.29%
Fe 238.204†	55.0	0.0246 mg/L	0.00083	0.0246 mg/L	0.00083	3.39%
K 766.490†	4806.3	1.570 mg/L	0.0362	1.570 mg/L	0.0362	2.31%
Mg 285.213†	89396.6	11.09 mg/L	0.043	11.09 mg/L	0.043	0.39%
Mn 257.610†	2459.7	0.1039 mg/L	0.00046	0.1039 mg/L	0.00046	0.44%
Mo 202.031†	39.1	0.0016 mg/L	0.00006	0.0016 mg/L	0.00006	3.63%
Na 589.592†	3021693.5	288.4 mg/L	4.30	288.4 mg/L	4.30	1.49%
Ni 231.604†	1172.8	0.0302 mg/L	0.00026	0.0302 mg/L	0.00026	0.87%
Pb 220.353†	32.9	0.0033 mg/L	0.00052	0.0033 mg/L	0.00052	15.40%
Sb 206.836†	284.5	-0.0008 mg/L	0.00131	-0.0008 mg/L	0.00131	165.98%
Se 196.026†	23.8	-0.0064 mg/L	0.00572	-0.0064 mg/L	0.00572	89.78%
Sn 189.927†	-373.2	-0.0446 mg/L	0.00046	-0.0446 mg/L	0.00046	1.04%
Ti 337.279†	0.7	0.0000 mg/L	0.00023	0.0000 mg/L	0.00023	625.87%
Tl 351.924†	-4.3	-0.0004 mg/L	0.00061	-0.0004 mg/L	0.00061	156.42%
V 290.880†	1246.4	0.0059 mg/L	0.00030	0.0059 mg/L	0.00030	5.04%
Zn 206.200†	-304.8	-0.0081 mg/L	0.00069	-0.0081 mg/L	0.00069	8.50%
Zr 343.823†	168.1	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	18.15%

Sequence No.: 19

Sample ID: 24D1824-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 44

Date Collected: 4/18/2024 12:07:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1824-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4202123.5	83.13 %		0.766			0.92%
Y radial	168400.7	96.12 %		0.896			0.93%
Ag 328.068†	-909.4	-0.0033 mg/L		0.00030	-0.0033 mg/L	0.00030	9.10%
Al 396.153†	386.0	0.1035 mg/L		0.01088	0.1035 mg/L	0.01088	10.51%
As 188.979†	45.3	-0.0223 mg/L		0.00208	-0.0223 mg/L	0.00208	9.34%
B 208.889†	4099.2	0.2272 mg/L		0.00163	0.2272 mg/L	0.00163	0.72%
Ba 233.527†	34446.3	0.2099 mg/L		0.00187	0.2099 mg/L	0.00187	0.89%
Be 313.107†	78.9	0.0001 mg/L		0.00003	0.0001 mg/L	0.00003	21.29%
Ca 317.933†	5106933.6	776.9 mg/L		11.18	776.9 mg/L	11.18	1.44%
Cd 228.802†	50.9	0.0003 mg/L		0.00001	0.0003 mg/L	0.00001	5.02%
Co 228.616†	1616.8	0.0150 mg/L		0.00028	0.0150 mg/L	0.00028	1.84%
Cr 267.716†	1534062.7	12.04 mg/L		0.083	12.04 mg/L	0.083	0.69%
Cu 327.393†	815.5	0.0048 mg/L		0.00050	0.0048 mg/L	0.00050	10.43%
Fe 238.204†	228.2	0.1018 mg/L		0.00288	0.1018 mg/L	0.00288	2.83%
K 766.490†	26601.6	8.688 mg/L		0.0638	8.688 mg/L	0.0638	0.73%
Mg 285.213†	456241.0	56.64 mg/L		0.432	56.64 mg/L	0.432	0.76%
Mn 257.610†	12241.3	0.5172 mg/L		0.00449	0.5172 mg/L	0.00449	0.87%
Mo 202.031†	57.0	0.0023 mg/L		0.00020	0.0023 mg/L	0.00020	8.58%
Na 589.592†	Saturated2						
Ni 231.604†	5370.6	0.1381 mg/L		0.00146	0.1381 mg/L	0.00146	1.06%
Pb 220.353†	-85.3	-0.0039 mg/L		0.00089	-0.0039 mg/L	0.00089	23.04%
Sb 206.836†	1286.6	-0.0231 mg/L		0.00215	-0.0231 mg/L	0.00215	9.28%
Se 196.026†	57.3	-0.0613 mg/L		0.00159	-0.0613 mg/L	0.00159	2.59%
Sn 189.927†	-597.2	-0.0714 mg/L		0.00009	-0.0714 mg/L	0.00009	0.13%
Ti 337.279†	51.3	0.0029 mg/L		0.00033	0.0029 mg/L	0.00033	11.50%
Tl 351.924†	-34.9	-0.0031 mg/L		0.00093	-0.0031 mg/L	0.00093	30.39%
V 290.880†	2497.9	0.0118 mg/L		0.00037	0.0118 mg/L	0.00037	3.15%
Zn 206.200†	-2317.0	0.0700 mg/L		0.00107	0.0700 mg/L	0.00107	1.53%
Zr 343.823†	144.1	0.0003 mg/L		0.00003	0.0003 mg/L	0.00003	9.09%

Sequence No.: 20

Sample ID: 24D1660-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 45

Date Collected: 4/18/2024 12:15:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1660-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4218501.2	83.45 %	0.957			1.15%
Y radial	166530.7	95.05 %	1.369			1.44%
Ag 328.068†	-117.8	-0.0009 mg/L	0.00040	-0.0009 mg/L	0.00040	46.61%
Al 396.153†	1681.1	0.4508 mg/L	0.00857	0.4508 mg/L	0.00857	1.90%
As 188.979†	-69.0	-0.0133 mg/L	0.00148	-0.0133 mg/L	0.00148	11.18%
B 208.889†	8238.6	0.4565 mg/L	0.00599	0.4565 mg/L	0.00599	1.31%
Ba 233.527†	41660.3	0.2539 mg/L	0.00180	0.2539 mg/L	0.00180	0.71%
Be 313.107†	26.6	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	913.01%
Ca 317.933†	2567147.9	390.5 mg/L	7.97	390.5 mg/L	7.97	2.04%
Cd 228.802†	199.0	0.0023 mg/L	0.00007	0.0023 mg/L	0.00007	2.89%
Co 228.616†	493.3	0.0051 mg/L	0.00003	0.0051 mg/L	0.00003	0.57%
Cr 267.716†	1394.4	0.0100 mg/L	0.00043	0.0100 mg/L	0.00043	4.25%
Cu 327.393†	4460.5	0.0261 mg/L	0.00039	0.0261 mg/L	0.00039	1.50%
Fe 238.204†	1048.0	0.4673 mg/L	0.00804	0.4673 mg/L	0.00804	1.72%
K 766.490†	22643.1	7.395 mg/L	0.0400	7.395 mg/L	0.0400	0.54%
Mg 285.213†	134847.7	16.69 mg/L	0.089	16.69 mg/L	0.089	0.53%
Mn 257.610†	49770.8	2.103 mg/L	0.0085	2.103 mg/L	0.0085	0.40%
Mo 202.031†	230.8	0.0095 mg/L	0.00011	0.0095 mg/L	0.00011	1.18%
Na 589.592†	Saturated2					
Ni 231.604†	367.1	0.0094 mg/L	0.00026	0.0094 mg/L	0.00026	2.78%
Pb 220.353†	28.0	0.0021 mg/L	0.00059	0.0021 mg/L	0.00059	28.05%
Sb 206.836†	59.6	0.0093 mg/L	0.00051	0.0093 mg/L	0.00051	5.54%
Se 196.026†	37.2	-0.0247 mg/L	0.00503	-0.0247 mg/L	0.00503	20.38%
Sn 189.927†	-462.0	-0.0552 mg/L	0.00073	-0.0552 mg/L	0.00073	1.32%
Ti 337.279†	212.5	0.0119 mg/L	0.00033	0.0119 mg/L	0.00033	2.81%
Tl 351.924†	28.5	0.0027 mg/L	0.00011	0.0027 mg/L	0.00011	3.98%
V 290.880†	2631.6	0.0125 mg/L	0.00015	0.0125 mg/L	0.00015	1.23%
Zn 206.200†	147619.5	2.065 mg/L	0.0187	2.065 mg/L	0.0187	0.91%
Zr 343.823†	394.9	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.50%

Sequence No.: 21

Sample ID: 24D1823-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 46

Date Collected: 4/18/2024 12:22:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1823-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4254623.9	84.17 %	0.864			1.03%
Y radial	172274.9	98.33 %	1.273			1.29%
Ag 328.068†	-494.1	-0.0019 mg/L	0.00032	-0.0019 mg/L	0.00032	16.82%
Al 396.153†	1036.6	0.2783 mg/L	0.00305	0.2783 mg/L	0.00305	1.10%
As 188.979†	-70.0	-0.0103 mg/L	0.00132	-0.0103 mg/L	0.00132	12.85%
B 208.889†	4974.4	0.2759 mg/L	0.00365	0.2759 mg/L	0.00365	1.32%
Ba 233.527†	52562.5	0.3204 mg/L	0.00294	0.3204 mg/L	0.00294	0.92%
Be 313.107†	50.6	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	51.92%
Ca 317.933†	3625012.7	551.5 mg/L	4.84	551.5 mg/L	4.84	0.88%
Cd 228.802†	382.7	0.0040 mg/L	0.00004	0.0040 mg/L	0.00004	0.97%
Co 228.616†	1658.4	0.0169 mg/L	0.00016	0.0169 mg/L	0.00016	0.96%
Cr 267.716†	921.1	0.0068 mg/L	0.00007	0.0068 mg/L	0.00007	1.01%
Cu 327.393†	3245.4	0.0190 mg/L	0.00055	0.0190 mg/L	0.00055	2.91%
Fe 238.204†	79.4	0.0355 mg/L	0.00184	0.0355 mg/L	0.00184	5.19%
K 766.490†	30940.8	10.11 mg/L	0.009	10.11 mg/L	0.009	0.09%
Mg 285.213†	341107.0	42.36 mg/L	0.353	42.36 mg/L	0.353	0.83%
Mn 257.610†	21994.3	0.9293 mg/L	0.00750	0.9293 mg/L	0.00750	0.81%
Mo 202.031†	-14.6	-0.0006 mg/L	0.00032	-0.0006 mg/L	0.00032	53.78%
Na 589.592†	12310336.6	1175 mg/L	15.93	1175 mg/L	15.93	1.36%
Ni 231.604†	1117.9	0.0287 mg/L	0.00011	0.0287 mg/L	0.00011	0.40%
Pb 220.353†	4650.5	0.3831 mg/L	0.00433	0.3831 mg/L	0.00433	1.13%
Sb 206.836†	65.7	0.0103 mg/L	0.00092	0.0103 mg/L	0.00092	8.94%
Se 196.026†	49.2	-0.0397 mg/L	0.00240	-0.0397 mg/L	0.00240	6.05%
Sn 189.927†	-527.0	-0.0630 mg/L	0.00141	-0.0630 mg/L	0.00141	2.24%

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4673348.7	92.45 %	0.713			0.77%
Y radial	179698.8	102.6 %	3.35			3.26%
Ag 328.068†	-1385.8	-0.0029 mg/L	0.00023	-0.0029 mg/L	0.00023	7.69%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 396.153†	899784.8	241.5 mg/L	2.81	241.5 mg/L	2.81	1.17%
QC value within limits for Al 396.153		Recovery =	96.60%			
As 188.979†	-96.5	0.0017 mg/L	0.00273	0.0017 mg/L	0.00273	157.09%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 208.889†	1349.4	0.0751 mg/L	0.00114	0.0751 mg/L	0.00114	1.52%
QC value within limits for B 208.889		Recovery =	Not calculated			

Ba 233.527†	1599.9	-0.0020 mg/L	0.00004	-0.0020 mg/L	0.00004	1.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	12.0	-0.0000 mg/L	0.00005	-0.0000 mg/L	0.00005	203.66%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	1539946.0	234.3 mg/L	2.66	234.3 mg/L	2.66	1.14%
QC value within limits for Ca 317.933 Recovery = 93.71%						
Cd 228.802†	-126.2	0.0007 mg/L	0.00008	0.0007 mg/L	0.00008	11.98%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-31.7	-0.0003 mg/L	0.00018	-0.0003 mg/L	0.00018	52.96%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	357.3	0.0028 mg/L	0.00019	0.0028 mg/L	0.00019	6.73%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	56.5	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	17.48%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	200057.1	89.19 mg/L	1.036	89.19 mg/L	1.036	1.16%
QC value within limits for Fe 238.204 Recovery = 89.19%						
K 766.490†	405.5	0.1324 mg/L	0.01798	0.1324 mg/L	0.01798	13.58%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1772002.1	220.9 mg/L	2.44	220.9 mg/L	2.44	1.10%
QC value within limits for Mg 285.213 Recovery = 88.35%						
Mn 257.610†	-77.2	0.0037 mg/L	0.00009	0.0037 mg/L	0.00009	2.42%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-101.8	-0.0042 mg/L	0.00031	-0.0042 mg/L	0.00031	7.52%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	32182.9	3.071 mg/L	0.1013	3.071 mg/L	0.1013	3.30%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni 231.604†	240.3	0.0062 mg/L	0.00026	0.0062 mg/L	0.00026	4.10%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-288.5	0.0034 mg/L	0.00067	0.0034 mg/L	0.00067	19.74%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	14.8	0.0062 mg/L	0.00093	0.0062 mg/L	0.00093	15.13%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	75.0	-0.0259 mg/L	0.00270	-0.0259 mg/L	0.00270	10.42%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-549.5	-0.0657 mg/L	0.00055	-0.0657 mg/L	0.00055	0.83%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	2.5	0.0001 mg/L	0.00036	0.0001 mg/L	0.00036	264.40%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-714.0	-0.0048 mg/L	0.00263	-0.0048 mg/L	0.00263	54.48%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	2335.9	0.0046 mg/L	0.00081	0.0046 mg/L	0.00081	17.46%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	324.3	-0.0019 mg/L	0.00006	-0.0019 mg/L	0.00006	3.09%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	1178.0	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	12.61%
QC Failed. Continue with analysis.						

Sequence No.: 24

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/18/2024 12:43:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4729436.5	93.56 %	0.687			0.73%
Y radial	176191.0	100.6 %	0.27			0.27%
Ag 328.068†	112185.0	0.4001 mg/L	0.00264	0.4001 mg/L	0.00264	0.66%
QC value within limits for Ag 328.068 Recovery = 100.03%						
Al 396.153†	928011.8	249.1 mg/L	1.25	249.1 mg/L	1.25	0.50%
QC value within limits for Al 396.153 Recovery = 99.63%						
As 188.979†	506.9	0.1852 mg/L	0.00355	0.1852 mg/L	0.00355	1.92%
QC value within limits for As 188.979 Recovery = 92.58%						
B 208.889†	1190.2	0.0662 mg/L	0.00041	0.0662 mg/L	0.00041	0.61%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	156469.4	0.9429 mg/L	0.00659	0.9429 mg/L	0.00659	0.70%

QC value within limits for Ba 233.527	Recovery = 94.29%				
Be 313.107†	403462.6	0.9717 mg/L	0.00456	0.9717 mg/L	0.00456 0.47%
QC value within limits for Be 313.107	Recovery = 97.17%				
Ca 317.933†	1551993.8	236.1 mg/L	0.60	236.1 mg/L	0.60 0.25%
QC value within limits for Ca 317.933	Recovery = 94.44%				
Cd 228.802†	212940.4	1.926 mg/L	0.0132	1.926 mg/L	0.0132 0.68%
QC value within limits for Cd 228.802	Recovery = 96.31%				
Co 228.616†	85171.6	0.8677 mg/L	0.00598	0.8677 mg/L	0.00598 0.69%
QC value within limits for Co 228.616	Recovery = 86.77%				
Cr 267.716†	116251.4	0.9131 mg/L	0.00605	0.9131 mg/L	0.00605 0.66%
QC value within limits for Cr 267.716	Recovery = 91.31%				
Cu 327.393†	162465.5	0.9500 mg/L	0.00571	0.9500 mg/L	0.00571 0.60%
QC value within limits for Cu 327.393	Recovery = 95.00%				
Fe 238.204†	205671.0	91.70 mg/L	0.257	91.70 mg/L	0.257 0.28%
QC value within limits for Fe 238.204	Recovery = 91.70%				
K 766.490†	258.0	0.0843 mg/L	0.00758	0.0843 mg/L	0.00758 9.00%
QC value within limits for K 766.490	Recovery = Not calculated				
Mg 285.213†	1794290.5	223.7 mg/L	0.88	223.7 mg/L	0.88 0.39%
QC value within limits for Mg 285.213	Recovery = 89.46%				
Mn 257.610†	21562.8	0.9182 mg/L	0.00270	0.9182 mg/L	0.00270 0.29%
QC value within limits for Mn 257.610	Recovery = 91.82%				
Mo 202.031†	-105.1	-0.0043 mg/L	0.00048	-0.0043 mg/L	0.00048 11.14%
QC value within limits for Mo 202.031	Recovery = Not calculated				
Na 589.592†	25016.7	2.387 mg/L	0.0395	2.387 mg/L	0.0395 1.66%
QC value greater than the upper limit for Na 589.592	Recovery = Not calculated				
Ni 231.604†	66422.5	1.708 mg/L	0.0149	1.708 mg/L	0.0149 0.87%
QC value within limits for Ni 231.604	Recovery = 85.39%				
Pb 220.353†	794.3	0.0926 mg/L	0.00125	0.0926 mg/L	0.00125 1.35%
QC value within limits for Pb 220.353	Recovery = 92.63%				
Sb 206.836†	6582.0	1.065 mg/L	0.0126	1.065 mg/L	0.0126 1.18%
QC value within limits for Sb 206.836	Recovery = 88.78%				
Se 196.026†	1003.2	0.4578 mg/L	0.00501	0.4578 mg/L	0.00501 1.09%
QC value within limits for Se 196.026	Recovery = 91.57%				
Sn 189.927†	-544.5	-0.0651 mg/L	0.00086	-0.0651 mg/L	0.00086 1.32%
QC value within limits for Sn 189.927	Recovery = Not calculated				
Ti 337.279†	-0.5	-0.0000 mg/L	0.00036	-0.0000 mg/L	0.00036 >999.9%
QC value within limits for Ti 337.279	Recovery = Not calculated				
Tl 351.924†	1645.8	0.2001 mg/L	0.00162	0.2001 mg/L	0.00162 0.81%
QC value within limits for Tl 351.924	Recovery = 100.06%				
V 290.880†	202402.7	0.9540 mg/L	0.00645	0.9540 mg/L	0.00645 0.68%
QC value within limits for V 290.880	Recovery = 95.40%				
Zn 206.200†	125005.2	1.748 mg/L	0.0133	1.748 mg/L	0.0133 0.76%
QC value within limits for Zn 206.200	Recovery = 87.38%				
Zr 343.823†	1151.7	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004 9.15%
QC Failed. Continue with analysis.					

Sequence No.: 25

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/18/2024 12:49:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5043323.9	99.77 %	0.248			0.25%
Y radial	185746.4	106.0 %	0.78			0.73%
Ag 328.068†	680400.3	2.370 mg/L	0.0112	2.370 mg/L	0.0112	0.47%
QC value within limits for Ag 328.068	Recovery = 94.80%					
Al 396.153†	36078.3	9.428 mg/L	0.1103	9.428 mg/L	0.1103	1.17%
QC value within limits for Al 396.153	Recovery = 94.28%					
As 188.979†	15346.2	4.755 mg/L	0.0427	4.755 mg/L	0.0427	0.90%
QC value within limits for As 188.979	Recovery = 95.10%					
B 208.889†	86960.4	4.583 mg/L	0.0062	4.583 mg/L	0.0062	0.13%
QC value within limits for B 208.889	Recovery = 91.65%					
Ba 233.527†	788715.8	4.815 mg/L	0.0044	4.815 mg/L	0.0044	0.09%
QC value within limits for Ba 233.527	Recovery = 96.31%					

Be 313.107†	1970978.1	4.747 mg/L	0.0483	4.747 mg/L	0.0483	1.02%
QC value within limits for Be 313.107 Recovery = 94.93%						
Ca 317.933†	62022.8	9.435 mg/L	0.0618	9.435 mg/L	0.0618	0.65%
QC value within limits for Ca 317.933 Recovery = 94.35%						
Cd 228.802†	534607.6	4.745 mg/L	0.0037	4.745 mg/L	0.0037	0.08%
QC value within limits for Cd 228.802 Recovery = 94.89%						
Co 228.616†	469854.2	4.794 mg/L	0.0057	4.794 mg/L	0.0057	0.12%
QC value within limits for Co 228.616 Recovery = 95.89%						
Cr 267.716†	608697.6	4.780 mg/L	0.0053	4.780 mg/L	0.0053	0.11%
QC value within limits for Cr 267.716 Recovery = 95.61%						
Cu 327.393†	802927.0	4.712 mg/L	0.0127	4.712 mg/L	0.0127	0.27%
QC value within limits for Cu 327.393 Recovery = 94.25%						
Fe 238.204†	10377.5	4.652 mg/L	0.0371	4.652 mg/L	0.0371	0.80%
QC value within limits for Fe 238.204 Recovery = 93.04%						
K 766.490†	28658.3	9.360 mg/L	0.0853	9.360 mg/L	0.0853	0.91%
QC value within limits for K 766.490 Recovery = 93.60%						
Mg 285.213†	76487.8	9.510 mg/L	0.0889	9.510 mg/L	0.0889	0.94%
QC value within limits for Mg 285.213 Recovery = 95.10%						
Mn 257.610†	110608.2	4.674 mg/L	0.0372	4.674 mg/L	0.0372	0.80%
QC value within limits for Mn 257.610 Recovery = 93.48%						
Mo 202.031†	116727.8	4.785 mg/L	0.0049	4.785 mg/L	0.0049	0.10%
QC value within limits for Mo 202.031 Recovery = 95.69%						
Na 589.592†	114360.6	10.91 mg/L	0.105	10.91 mg/L	0.105	0.96%
QC value within limits for Na 589.592 Recovery = 109.14%						
Ni 231.604†	185972.2	4.780 mg/L	0.0040	4.780 mg/L	0.0040	0.08%
QC value within limits for Ni 231.604 Recovery = 95.60%						
Pb 220.353†	58149.2	4.795 mg/L	0.0414	4.795 mg/L	0.0414	0.86%
QC value within limits for Pb 220.353 Recovery = 95.90%						
Sb 206.836†	29182.3	4.737 mg/L	0.0468	4.737 mg/L	0.0468	0.99%
QC value within limits for Sb 206.836 Recovery = 94.73%						
Se 196.026†	9258.0	4.834 mg/L	0.0654	4.834 mg/L	0.0654	1.35%
QC value within limits for Se 196.026 Recovery = 96.69%						
Sn 189.927†	40234.9	4.805 mg/L	0.0289	4.805 mg/L	0.0289	0.60%
QC value within limits for Sn 189.927 Recovery = 96.09%						
Ti 337.279†	84279.7	4.711 mg/L	0.0506	4.711 mg/L	0.0506	1.07%
QC value within limits for Ti 337.279 Recovery = 94.22%						
Tl 351.924†	27163.1	2.347 mg/L	0.0217	2.347 mg/L	0.0217	0.93%
QC value within limits for Tl 351.924 Recovery = 93.89%						
V 290.880†	1025747.4	4.868 mg/L	0.0078	4.868 mg/L	0.0078	0.16%
QC value within limits for V 290.880 Recovery = 97.36%						
Zn 206.200†	341540.9	4.802 mg/L	0.0037	4.802 mg/L	0.0037	0.08%
QC value within limits for Zn 206.200 Recovery = 96.05%						
Zr 343.823†	2077209.2	4.823 mg/L	0.0075	4.823 mg/L	0.0075	0.15%
All analyte(s) passed QC.						

Sequence No.: 26

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/18/2024 12:54:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5185767.6	102.6 %	0.87			0.85%
Y radial	188769.6	107.7 %	1.39			1.29%
Ag 328.068†	711.6	0.0025 mg/L	0.00022	0.0025 mg/L	0.00022	8.70%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	4.6	0.0012 mg/L	0.00366	0.0012 mg/L	0.00366	309.32%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	3.9	0.0012 mg/L	0.00041	0.0012 mg/L	0.00041	35.02%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	1024.8	0.0568 mg/L	0.00085	0.0568 mg/L	0.00085	1.50%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	27.2	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	31.43%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-40.3	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	34.57%

QC value within limits for Be 313.107	Recovery = Not calculated		
Ca 317.933†	-2.0 -0.0003 mg/L	0.00302 -0.0003 mg/L	0.00302 >999.9%
QC value within limits for Ca 317.933	Recovery = Not calculated		
Cd 228.802†	14.9 0.0001 mg/L	0.00005 0.0001 mg/L	0.00005 49.57%
QC value within limits for Cd 228.802	Recovery = Not calculated		
Co 228.616†	24.6 0.0003 mg/L	0.00007 0.0003 mg/L	0.00007 28.55%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	33.4 0.0003 mg/L	0.00004 0.0003 mg/L	0.00004 16.68%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 327.393†	387.5 0.0023 mg/L	0.00037 0.0023 mg/L	0.00037 16.49%
QC value within limits for Cu 327.393	Recovery = Not calculated		
Fe 238.204†	17.7 0.0079 mg/L	0.00128 0.0079 mg/L	0.00128 16.23%
QC value within limits for Fe 238.204	Recovery = Not calculated		
K 766.490†	88.4 0.0289 mg/L	0.01593 0.0289 mg/L	0.01593 55.17%
QC value within limits for K 766.490	Recovery = Not calculated		
Mg 285.213†	11.3 0.0014 mg/L	0.00058 0.0014 mg/L	0.00058 41.02%
QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610†	0.5 0.0000 mg/L	0.00022 0.0000 mg/L	0.00022 982.74%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	34.4 0.0014 mg/L	0.00017 0.0014 mg/L	0.00017 11.98%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592†	15115.6 1.443 mg/L	0.0116 1.443 mg/L	0.0116 0.80%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604†	-23.3 -0.0006 mg/L	0.00019 -0.0006 mg/L	0.00019 32.11%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353†	7.0 0.0006 mg/L	0.00050 0.0006 mg/L	0.00050 87.32%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836†	-0.4 -0.0001 mg/L	0.00072 -0.0001 mg/L	0.00072 >999.9%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	2.7 0.0014 mg/L	0.00161 0.0014 mg/L	0.00161 113.50%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927†	1.7 0.0002 mg/L	0.00054 0.0002 mg/L	0.00054 268.52%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279†	-14.9 -0.0008 mg/L	0.00021 -0.0008 mg/L	0.00021 25.17%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924†	0.6 0.0001 mg/L	0.00171 0.0001 mg/L	0.00171 >999.9%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880†	445.9 0.0021 mg/L	0.00009 0.0021 mg/L	0.00009 4.47%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200†	168.0 0.0022 mg/L	0.00004 0.0022 mg/L	0.00004 1.88%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823†	-84.7 -0.0002 mg/L	0.00002 -0.0002 mg/L	0.00002 10.03%
All analyte(s) passed QC.			

Sequence No.: 27
Sample ID: 24D1364-01
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 48
Date Collected: 4/18/2024 1:00:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D1364-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4256191.6	84.20 %	1.255			1.49%
Y radial	171233.8	97.74 %	1.341			1.37%
Ag 328.068†	69.0	0.0001 mg/L	0.00023	0.0001 mg/L	0.00023	204.55%
Al 396.153†	549.2	0.1474 mg/L	0.00608	0.1474 mg/L	0.00608	4.13%
As 188.979†	-79.3	-0.0196 mg/L	0.00280	-0.0196 mg/L	0.00280	14.27%
B 208.889†	2196.4	0.1218 mg/L	0.00243	0.1218 mg/L	0.00243	1.99%
Ba 233.527†	80641.5	0.4915 mg/L	0.00888	0.4915 mg/L	0.00888	1.81%
Be 313.107†	38.9	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	80.38%
Ca 317.933†	1592308.4	242.2 mg/L	1.14	242.2 mg/L	1.14	0.47%
Cd 228.802†	194.6	0.0024 mg/L	0.00008	0.0024 mg/L	0.00008	3.51%
Co 228.616†	1243.1	0.0127 mg/L	0.00033	0.0127 mg/L	0.00033	2.60%
Cr 267.716†	519.9	0.0038 mg/L	0.00012	0.0038 mg/L	0.00012	3.11%
Cu 327.393†	2647.4	0.0155 mg/L	0.00055	0.0155 mg/L	0.00055	3.57%
Fe 238.204†	178.1	0.0795 mg/L	0.00255	0.0795 mg/L	0.00255	3.21%

K 766.490†	40546.3	13.24 mg/L	0.070	13.24 mg/L	0.070	0.53%
Mg 285.213†	692845.0	86.29 mg/L	0.239	86.29 mg/L	0.239	0.28%
Mn 257.610†	16985.9	0.7177 mg/L	0.00301	0.7177 mg/L	0.00301	0.42%
Mo 202.031†	15.9	0.0007 mg/L	0.00033	0.0007 mg/L	0.00033	50.28%
Na 589.592†	Saturated2					
Ni 231.604†	583.6	0.0150 mg/L	0.00023	0.0150 mg/L	0.00023	1.56%
Pb 220.353†	2031.1	0.1673 mg/L	0.00245	0.1673 mg/L	0.00245	1.46%
Sb 206.836†	64.0	0.0101 mg/L	0.00054	0.0101 mg/L	0.00054	5.40%
Se 196.026†	72.7	-0.0043 mg/L	0.00329	-0.0043 mg/L	0.00329	76.01%
Sn 189.927†	-484.4	-0.0579 mg/L	0.00122	-0.0579 mg/L	0.00122	2.11%
Ti 337.279†	29.8	0.0017 mg/L	0.00015	0.0017 mg/L	0.00015	9.16%
Tl 351.924†	-10.3	-0.0009 mg/L	0.00321	-0.0009 mg/L	0.00321	353.10%
V 290.880†	2369.1	0.0112 mg/L	0.00089	0.0112 mg/L	0.00089	7.96%
Zn 206.200†	9674.4	0.1354 mg/L	0.00283	0.1354 mg/L	0.00283	2.09%
Zr 343.823†	349.6	0.0008 mg/L	0.00003	0.0008 mg/L	0.00003	4.31%

Sequence No.: 28

Sample ID: 24D1364-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 49

Date Collected: 4/18/2024 1:08:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4326575.1	85.59 %		0.859			1.00%
Y radial	171135.9	97.68 %		0.886			0.91%
Ag 328.068†	302.3	0.0010 mg/L		0.00013	0.0010 mg/L	0.00013	13.42%
Al 396.153†	697.3	0.1871 mg/L		0.00774	0.1871 mg/L	0.00774	4.14%
As 188.979†	-51.9	-0.0132 mg/L		0.00211	-0.0132 mg/L	0.00211	15.99%
B 208.889†	2595.8	0.1439 mg/L		0.00185	0.1439 mg/L	0.00185	1.28%
Ba 233.527†	63333.8	0.3860 mg/L		0.00577	0.3860 mg/L	0.00577	1.50%
Be 313.107†	64.5	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	34.43%
Ca 317.933†	954217.1	145.2 mg/L		1.22	145.2 mg/L	1.22	0.84%
Cd 228.802†	182.6	0.0020 mg/L		0.00005	0.0020 mg/L	0.00005	2.64%
Co 228.616†	725.4	0.0074 mg/L		0.00009	0.0074 mg/L	0.00009	1.24%
Cr 267.716†	448.3	0.0033 mg/L		0.00008	0.0033 mg/L	0.00008	2.36%
Cu 327.393†	5556.3	0.0325 mg/L		0.00060	0.0325 mg/L	0.00060	1.85%
Fe 238.204†	97.2	0.0434 mg/L		0.00227	0.0434 mg/L	0.00227	5.25%
K 766.490†	39473.7	12.89 mg/L		0.093	12.89 mg/L	0.093	0.72%
Mg 285.213†	414438.6	51.62 mg/L		0.320	51.62 mg/L	0.320	0.62%
Mn 257.610†	10229.2	0.4322 mg/L		0.00464	0.4322 mg/L	0.00464	1.07%
Mo 202.031†	16.2	0.0007 mg/L		0.00032	0.0007 mg/L	0.00032	48.84%
Na 589.592†	Saturated2						
Ni 231.604†	545.3	0.0140 mg/L		0.00029	0.0140 mg/L	0.00029	2.06%
Pb 220.353†	259.1	0.0213 mg/L		0.00032	0.0213 mg/L	0.00032	1.51%
Sb 206.836†	47.1	0.0073 mg/L		0.00113	0.0073 mg/L	0.00113	15.43%
Se 196.026†	62.1	0.0071 mg/L		0.00366	0.0071 mg/L	0.00366	51.66%
Sn 189.927†	-430.2	-0.0514 mg/L		0.00053	-0.0514 mg/L	0.00053	1.03%
Ti 337.279†	11.9	0.0007 mg/L		0.00019	0.0007 mg/L	0.00019	28.60%
Tl 351.924†	14.1	0.0012 mg/L		0.00077	0.0012 mg/L	0.00077	63.06%
V 290.880†	2225.3	0.0106 mg/L		0.00108	0.0106 mg/L	0.00108	10.24%
Zn 206.200†	14855.7	0.2078 mg/L		0.00220	0.2078 mg/L	0.00220	1.06%
Zr 343.823†	313.0	0.0007 mg/L		0.00005	0.0007 mg/L	0.00005	7.23%

Sequence No.: 29

Sample ID: 24D1364-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 50

Date Collected: 4/18/2024 1:15:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y axial	4312719.3	85.32 %	1.018			1.19%
Y radial	173353.4	98.95 %	1.045			1.06%
Ag 328.068†	360.5	0.0010 mg/L	0.00035	0.0010 mg/L	0.00035	35.20%
Al 396.153†	1770.4	0.4752 mg/L	0.00929	0.4752 mg/L	0.00929	1.95%
As 188.979†	-66.5	-0.0181 mg/L	0.00186	-0.0181 mg/L	0.00186	10.23%
B 208.889†	2676.5	0.1484 mg/L	0.00225	0.1484 mg/L	0.00225	1.51%
Ba 233.527†	68999.2	0.4205 mg/L	0.00233	0.4205 mg/L	0.00233	0.55%
Be 313.107†	88.5	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	14.06%
Ca 317.933†	825414.1	125.6 mg/L	1.66	125.6 mg/L	1.66	1.32%
Cd 228.802†	501.2	0.0052 mg/L	0.00009	0.0052 mg/L	0.00009	1.70%
Co 228.616†	2462.9	0.0251 mg/L	0.00031	0.0251 mg/L	0.00031	1.24%
Cr 267.716†	560.0	0.0039 mg/L	0.00009	0.0039 mg/L	0.00009	2.44%
Cu 327.393†	24598.5	0.1438 mg/L	0.00109	0.1438 mg/L	0.00109	0.76%
Fe 238.204†	192.8	0.0861 mg/L	0.00134	0.0861 mg/L	0.00134	1.56%
K 766.490†	14603.8	4.770 mg/L	0.0664	4.770 mg/L	0.0664	1.39%
Mg 285.213†	89621.6	11.13 mg/L	0.079	11.13 mg/L	0.079	0.71%
Mn 257.610†	30224.9	1.277 mg/L	0.0075	1.277 mg/L	0.0075	0.59%
Mo 202.031†	11.2	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	9.08%
Na 589.592†	Saturated2					
Ni 231.604†	4094.8	0.1053 mg/L	0.00137	0.1053 mg/L	0.00137	1.30%
Pb 220.353†	491.7	0.0402 mg/L	0.00070	0.0402 mg/L	0.00070	1.74%
Sb 206.836†	48.9	0.0077 mg/L	0.00067	0.0077 mg/L	0.00067	8.68%
Se 196.026†	38.1	0.0044 mg/L	0.00263	0.0044 mg/L	0.00263	60.07%
Sn 189.927†	-366.8	-0.0438 mg/L	0.00015	-0.0438 mg/L	0.00015	0.35%
Ti 337.279†	18.0	0.0010 mg/L	0.00060	0.0010 mg/L	0.00060	59.69%
Tl 351.924†	24.9	0.0022 mg/L	0.00235	0.0022 mg/L	0.00235	106.73%
V 290.880†	2173.5	0.0103 mg/L	0.00039	0.0103 mg/L	0.00039	3.76%
Zn 206.200†	31893.1	0.4462 mg/L	0.00377	0.4462 mg/L	0.00377	0.85%
Zr 343.823†	333.3	0.0008 mg/L	0.00010	0.0008 mg/L	0.00010	12.60%

Sequence No.: 30

Sample ID: 24D1364-06

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 51

Date Collected: 4/18/2024 1:23:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4386390.0	86.77 %	1.701			1.96%
Y radial	167025.9	95.34 %	0.823			0.86%
Ag 328.068†	472.3	0.0016 mg/L	0.00027	0.0016 mg/L	0.00027	16.56%
Al 396.153†	1691.6	0.4540 mg/L	0.00775	0.4540 mg/L	0.00775	1.71%
As 188.979†	-68.7	-0.0207 mg/L	0.00270	-0.0207 mg/L	0.00270	13.03%
B 208.889†	2461.0	0.1365 mg/L	0.00223	0.1365 mg/L	0.00223	1.63%
Ba 233.527†	58472.0	0.3564 mg/L	0.00322	0.3564 mg/L	0.00322	0.90%
Be 313.107†	93.7	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	25.01%
Ca 317.933†	224974.7	34.23 mg/L	0.173	34.23 mg/L	0.173	0.51%
Cd 228.802†	121.4	0.0016 mg/L	0.00016	0.0016 mg/L	0.00016	9.69%
Co 228.616†	638.9	0.0066 mg/L	0.00011	0.0066 mg/L	0.00011	1.62%
Cr 267.716†	321.2	0.0024 mg/L	0.00016	0.0024 mg/L	0.00016	6.80%
Cu 327.393†	3597.5	0.0210 mg/L	0.00075	0.0210 mg/L	0.00075	3.57%
Fe 238.204†	205.8	0.0918 mg/L	0.00132	0.0918 mg/L	0.00132	1.44%
K 766.490†	21912.0	7.157 mg/L	0.0506	7.157 mg/L	0.0506	0.71%
Mg 285.213†	29154.9	3.624 mg/L	0.0180	3.624 mg/L	0.0180	0.50%
Mn 257.610†	6520.3	0.2755 mg/L	0.00385	0.2755 mg/L	0.00385	1.40%
Mo 202.031†	8.9	0.0004 mg/L	0.00028	0.0004 mg/L	0.00028	77.59%
Na 589.592†	Saturated2					
Ni 231.604†	288.6	0.0074 mg/L	0.00014	0.0074 mg/L	0.00014	1.90%
Pb 220.353†	2353.7	0.1939 mg/L	0.00231	0.1939 mg/L	0.00231	1.19%
Sb 206.836†	28.2	0.0044 mg/L	0.00080	0.0044 mg/L	0.00080	17.90%
Se 196.026†	32.1	0.0124 mg/L	0.00119	0.0124 mg/L	0.00119	9.61%
Sn 189.927†	-212.9	-0.0255 mg/L	0.00046	-0.0255 mg/L	0.00046	1.79%
Ti 337.279†	61.7	0.0035 mg/L	0.00018	0.0035 mg/L	0.00018	5.25%
Tl 351.924†	6.9	0.0006 mg/L	0.00465	0.0006 mg/L	0.00465	768.00%
V 290.880†	2307.4	0.0109 mg/L	0.00063	0.0109 mg/L	0.00063	5.72%
Zn 206.200†	8755.6	0.1225 mg/L	0.00221	0.1225 mg/L	0.00221	1.81%

Zr 343.823† 290.3 0.0007 mg/L 0.00009 0.0007 mg/L 0.00009 13.96%

Sequence No.: 31

Sample ID: 24D1364-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 52

Date Collected: 4/18/2024 1:30:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4526464.0	89.54	%	0.944			1.05%
Y radial	180246.9	102.9	%	1.26			1.22%
Ag 328.068†	455.6	0.0014	mg/L	0.00021	0.0014 mg/L	0.00021	14.95%
Al 396.153†	2724.8	0.7313	mg/L	0.00584	0.7313 mg/L	0.00584	0.80%
As 188.979†	-59.1	-0.0174	mg/L	0.00145	-0.0174 mg/L	0.00145	8.33%
B 208.889†	2758.6	0.1530	mg/L	0.00149	0.1530 mg/L	0.00149	0.97%
Ba 233.527†	44866.6	0.2735	mg/L	0.00194	0.2735 mg/L	0.00194	0.71%
Be 313.107†	25.5	0.0000	mg/L	0.00001	0.0000 mg/L	0.00001	105.24%
Ca 317.933†	322117.7	49.00	mg/L	0.345	49.00 mg/L	0.345	0.70%
Cd 228.802†	194.0	0.0022	mg/L	0.00015	0.0022 mg/L	0.00015	6.55%
Co 228.616†	1119.8	0.0114	mg/L	0.00014	0.0114 mg/L	0.00014	1.24%
Cr 267.716†	350.1	0.0024	mg/L	0.00002	0.0024 mg/L	0.00002	0.82%
Cu 327.393†	6265.5	0.0366	mg/L	0.00018	0.0366 mg/L	0.00018	0.49%
Fe 238.204†	296.3	0.1321	mg/L	0.00056	0.1321 mg/L	0.00056	0.42%
K 766.490†	27163.9	8.872	mg/L	0.0092	8.872 mg/L	0.0092	0.10%
Mg 285.213†	57630.4	7.169	mg/L	0.0229	7.169 mg/L	0.0229	0.32%
Mn 257.610†	20641.5	0.8722	mg/L	0.00697	0.8722 mg/L	0.00697	0.80%
Mo 202.031†	16.2	0.0007	mg/L	0.00008	0.0007 mg/L	0.00008	11.86%
Na 589.592†	Saturated2						
Ni 231.604†	543.1	0.0140	mg/L	0.00029	0.0140 mg/L	0.00029	2.11%
Pb 220.353†	718.2	0.0591	mg/L	0.00020	0.0591 mg/L	0.00020	0.33%
Sb 206.836†	37.5	0.0059	mg/L	0.00053	0.0059 mg/L	0.00053	8.90%
Se 196.026†	30.5	0.0092	mg/L	0.00300	0.0092 mg/L	0.00300	32.58%
Sn 189.927†	-258.1	-0.0308	mg/L	0.00113	-0.0308 mg/L	0.00113	3.68%
Ti 337.279†	40.9	0.0023	mg/L	0.00033	0.0023 mg/L	0.00033	14.54%
Tl 351.924†	-13.2	-0.0011	mg/L	0.00151	-0.0011 mg/L	0.00151	133.66%
V 290.880†	2251.6	0.0107	mg/L	0.00059	0.0107 mg/L	0.00059	5.50%
Zn 206.200†	15189.4	0.2125	mg/L	0.00106	0.2125 mg/L	0.00106	0.50%
Zr 343.823†	359.2	0.0008	mg/L	0.00002	0.0008 mg/L	0.00002	2.28%

Sequence No.: 32

Sample ID: 24D1364-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 53

Date Collected: 4/18/2024 1:38:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1364-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4520916.4	89.43	%	0.520			0.58%
Y radial	183513.3	104.7	%	1.42			1.36%
Ag 328.068†	179.9	0.0003	mg/L	0.00011	0.0003 mg/L	0.00011	42.03%
Al 396.153†	751.7	0.2017	mg/L	0.01273	0.2017 mg/L	0.01273	6.31%
As 188.979†	-66.9	-0.0167	mg/L	0.00044	-0.0167 mg/L	0.00044	2.62%
B 208.889†	2349.3	0.1303	mg/L	0.00272	0.1303 mg/L	0.00272	2.08%
Ba 233.527†	74758.4	0.4556	mg/L	0.00144	0.4556 mg/L	0.00144	0.32%
Be 313.107†	-46.4	-0.0002	mg/L	0.00002	-0.0002 mg/L	0.00002	14.08%
Ca 317.933†	1333055.8	202.8	mg/L	0.08	202.8 mg/L	0.08	0.04%
Cd 228.802†	535.8	0.0054	mg/L	0.00013	0.0054 mg/L	0.00013	2.52%
Co 228.616†	939.8	0.0096	mg/L	0.00027	0.0096 mg/L	0.00027	2.79%
Cr 267.716†	471.8	0.0030	mg/L	0.00006	0.0030 mg/L	0.00006	2.07%
Cu 327.393†	12990.6	0.0760	mg/L	0.00092	0.0760 mg/L	0.00092	1.20%
Fe 238.204†	161.2	0.0719	mg/L	0.00118	0.0719 mg/L	0.00118	1.65%

K 766.490†	24343.6	7.951 mg/L	0.0376	7.951 mg/L	0.0376	0.47%
Mg 285.213†	143042.1	17.77 mg/L	0.081	17.77 mg/L	0.081	0.46%
Mn 257.610†	40048.4	1.692 mg/L	0.0133	1.692 mg/L	0.0133	0.79%
Mo 202.031†	8.0	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	29.06%
Na 589.592†	Saturated2					
Ni 231.604†	972.9	0.0250 mg/L	0.00071	0.0250 mg/L	0.00071	2.85%
Pb 220.353†	340.6	0.0278 mg/L	0.00007	0.0278 mg/L	0.00007	0.24%
Sb 206.836†	48.3	0.0076 mg/L	0.00089	0.0076 mg/L	0.00089	11.80%
Se 196.026†	38.4	-0.0048 mg/L	0.00187	-0.0048 mg/L	0.00187	38.90%
Sn 189.927†	-388.0	-0.0464 mg/L	0.00020	-0.0464 mg/L	0.00020	0.44%
Ti 337.279†	-10.8	-0.0006 mg/L	0.00048	-0.0006 mg/L	0.00048	79.95%
Tl 351.924†	-28.8	-0.0025 mg/L	0.00277	-0.0025 mg/L	0.00277	109.74%
V 290.880†	2055.9	0.0098 mg/L	0.00075	0.0098 mg/L	0.00075	7.70%
Zn 206.200†	29677.5	0.4152 mg/L	0.00193	0.4152 mg/L	0.00193	0.47%
Zr 343.823†	237.4	0.0005 mg/L	0.00010	0.0005 mg/L	0.00010	19.05%

Sequence No.: 33

Sample ID: 24D1659-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 54

Date Collected: 4/18/2024 1:46:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1659-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4184030.6	82.77 %		0.162			0.20%
Y radial	162587.8	92.80 %		1.930			2.08%
Ag 328.068†	290.4	0.0010 mg/L		0.00013	0.0010 mg/L	0.00013	13.43%
Al 396.153†	7843.2	2.106 mg/L		0.0307	2.106 mg/L	0.0307	1.46%
As 188.979†	-83.9	-0.0166 mg/L		0.00179	-0.0166 mg/L	0.00179	10.78%
B 208.889†	2408.9	0.1333 mg/L		0.00074	0.1333 mg/L	0.00074	0.56%
Ba 233.527†	49242.6	0.2972 mg/L		0.00201	0.2972 mg/L	0.00201	0.68%
Be 313.107†	401.0	0.0009 mg/L		0.00007	0.0009 mg/L	0.00007	8.25%
Ca 317.933†	866798.9	131.9 mg/L		1.02	131.9 mg/L	1.02	0.77%
Cd 228.802†	158.6	0.0023 mg/L		0.00008	0.0023 mg/L	0.00008	3.52%
Co 228.616†	851.6	0.0087 mg/L		0.00018	0.0087 mg/L	0.00018	2.05%
Cr 267.716†	1167.2	0.0083 mg/L		0.00009	0.0083 mg/L	0.00009	1.08%
Cu 327.393†	43674.9	0.2554 mg/L		0.00251	0.2554 mg/L	0.00251	0.98%
Fe 238.204†	49865.7	22.23 mg/L		0.151	22.23 mg/L	0.151	0.68%
K 766.490†	51492.3	16.82 mg/L		0.071	16.82 mg/L	0.071	0.42%
Mg 285.213†	64591.7	8.030 mg/L		0.0511	8.030 mg/L	0.0511	0.64%
Mn 257.610†	49110.1	2.077 mg/L		0.0323	2.077 mg/L	0.0323	1.55%
Mo 202.031†	155.3	0.0064 mg/L		0.00023	0.0064 mg/L	0.00023	3.59%
Na 589.592†	10764728.8	1027 mg/L		13.04	1027 mg/L	13.04	1.27%
Ni 231.604†	1141.4	0.0294 mg/L		0.00016	0.0294 mg/L	0.00016	0.54%
Pb 220.353†	139.0	0.0104 mg/L		0.00045	0.0104 mg/L	0.00045	4.34%
Sb 206.836†	62.0	0.0109 mg/L		0.00084	0.0109 mg/L	0.00084	7.71%
Se 196.026†	41.7	0.0068 mg/L		0.00420	0.0068 mg/L	0.00420	62.00%
Sn 189.927†	-217.7	-0.0260 mg/L		0.00074	-0.0260 mg/L	0.00074	2.83%
Ti 337.279†	320.5	0.0179 mg/L		0.00049	0.0179 mg/L	0.00049	2.73%
Tl 351.924†	-114.1	0.0043 mg/L		0.00211	0.0043 mg/L	0.00211	49.19%
V 290.880†	3186.7	0.0135 mg/L		0.00015	0.0135 mg/L	0.00015	1.12%
Zn 206.200†	49987.2	0.6105 mg/L		0.00383	0.6105 mg/L	0.00383	0.63%
Zr 343.823†	3128.6	0.0067 mg/L		0.00004	0.0067 mg/L	0.00004	0.66%

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 2:16:21 PM

Logged In Analyst: ICP2

Spectrometer: Optima 4300 DV, S/N 077N0022803

Plasma On Time: 4/18/2024 8:09:18 AM

Technique: ICP Continuous

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Sample ID: SEQ-ICV@ 23K0257

Analyst:

Initial Sample Wt:

Dilution:

Wash Time:

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/18/2024 2:16:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

=====

Analysis Begun

Start Time: 4/18/2024 2:16:58 PM

Logged In Analyst: ICP2

Spectrometer: Optima 4300 DV, S/N 077N0022803

Plasma On Time: 4/18/2024 8:09:18 AM

Technique: ICP Continuous

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 34

Sample ID: B371701-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time:

Autosampler Location: 55

Date Collected: 4/18/2024 2:16:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

=====

Mean Data: B371701-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5131794.0	101.5 %	1.42			1.40%
Y radial	185681.3	106.0 %	0.90			0.85%
Ag 328.068†	555.7	0.0020 mg/L	0.00009	0.0020 mg/L	0.00009	4.52%
Al 396.153†	-4.2	-0.0011 mg/L	0.00601	-0.0011 mg/L	0.00601	533.74%
As 188.979†	-2.6	-0.0008 mg/L	0.00093	-0.0008 mg/L	0.00093	113.12%
B 208.889†	298.4	0.0165 mg/L	0.00013	0.0165 mg/L	0.00013	0.76%
Ba 233.527†	22.2	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	55.79%
Be 313.107†	-110.4	-0.0003 mg/L	0.00004	-0.0003 mg/L	0.00004	14.35%
Ca 317.933†	200.6	0.0305 mg/L	0.00256	0.0305 mg/L	0.00256	8.39%
Cd 228.802†	9.0	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	87.59%
Co 228.616†	16.5	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	28.74%
Cr 267.716†	-2.7	-0.0000 mg/L	0.00003	-0.0000 mg/L	0.00003	154.64%
Cu 327.393†	470.8	0.0028 mg/L	0.00021	0.0028 mg/L	0.00021	7.62%
Fe 238.204†	20.9	0.0093 mg/L	0.00058	0.0093 mg/L	0.00058	6.26%
K 766.490†	46.4	0.0152 mg/L	0.01163	0.0152 mg/L	0.01163	76.74%
Mg 285.213†	21.0	0.0026 mg/L	0.00044	0.0026 mg/L	0.00044	16.96%
Mn 257.610†	7.2	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	27.54%
Mo 202.031†	4.1	0.0002 mg/L	0.00029	0.0002 mg/L	0.00029	171.73%
Na 589.592†	16003.1	1.527 mg/L	0.0543	1.527 mg/L	0.0543	3.55%
Ni 231.604†	-12.0	-0.0003 mg/L	0.00032	-0.0003 mg/L	0.00032	102.50%
Pb 220.353†	-11.4	-0.0009 mg/L	0.00040	-0.0009 mg/L	0.00040	42.59%
Sb 206.836†	-1.6	-0.0002 mg/L	0.00071	-0.0002 mg/L	0.00071	285.55%
Se 196.026†	0.4	0.0002 mg/L	0.00175	0.0002 mg/L	0.00175	765.92%
Sn 189.927†	2.7	0.0003 mg/L	0.00036	0.0003 mg/L	0.00036	112.73%

Ti 337.279†	-19.8	-0.0011 mg/L	0.00021	-0.0011 mg/L	0.00021	18.95%
Tl 351.924†	-2.2	-0.0002 mg/L	0.00585	-0.0002 mg/L	0.00585	>999.9%
V 290.880†	464.6	0.0022 mg/L	0.00060	0.0022 mg/L	0.00060	27.43%
Zn 206.200†	82.5	0.0010 mg/L	0.00009	0.0010 mg/L	0.00009	8.57%
Zr 343.823†	-64.7	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006	41.03%

Sequence No.: 35

Sample ID: B371701-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 56

Date Collected: 4/18/2024 2:22:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371701-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5080646.5	100.5 %		2.12				2.11%
Y radial	183936.8	105.0 %		1.92				1.82%
Ag 328.068†	133304.0	0.4704 mg/L		0.00833	0.4704 mg/L		0.00833	1.77%
Al 396.153†	1980.2	0.5124 mg/L		0.00396	0.5124 mg/L		0.00396	0.77%
As 188.979†	1511.7	0.4693 mg/L		0.00877	0.4693 mg/L		0.00877	1.87%
B 208.889†	17089.4	0.9235 mg/L		0.01978	0.9235 mg/L		0.01978	2.14%
Ba 233.527†	81308.2	0.4960 mg/L		0.01017	0.4960 mg/L		0.01017	2.05%
Be 313.107†	201869.4	0.4861 mg/L		0.00782	0.4861 mg/L		0.00782	1.61%
Ca 317.933†	25827.7	3.929 mg/L		0.0293	3.929 mg/L		0.0293	0.75%
Cd 228.802†	55489.6	0.4930 mg/L		0.00971	0.4930 mg/L		0.00971	1.97%
Co 228.616†	47963.5	0.4894 mg/L		0.00911	0.4894 mg/L		0.00911	1.86%
Cr 267.716†	62989.2	0.4946 mg/L		0.00851	0.4946 mg/L		0.00851	1.72%
Cu 327.393†	161757.6	0.9459 mg/L		0.01673	0.9459 mg/L		0.01673	1.77%
Fe 238.204†	8686.5	3.875 mg/L		0.0425	3.875 mg/L		0.0425	1.10%
K 766.490†	11684.6	3.816 mg/L		0.0357	3.816 mg/L		0.0357	0.93%
Mg 285.213†	32043.3	3.996 mg/L		0.0411	3.996 mg/L		0.0411	1.03%
Mn 257.610†	11410.9	0.4824 mg/L		0.00469	0.4824 mg/L		0.00469	0.97%
Mo 202.031†	11812.5	0.4842 mg/L		0.01071	0.4842 mg/L		0.01071	2.21%
Na 589.592†	51179.6	4.884 mg/L		0.0313	4.884 mg/L		0.0313	0.64%
Ni 231.604†	19084.2	0.4904 mg/L		0.00988	0.4904 mg/L		0.00988	2.01%
Pb 220.353†	5958.7	0.4902 mg/L		0.01078	0.4902 mg/L		0.01078	2.20%
Sb 206.836†	3014.6	0.4891 mg/L		0.01124	0.4891 mg/L		0.01124	2.30%
Se 196.026†	952.7	0.4965 mg/L		0.01481	0.4965 mg/L		0.01481	2.98%
Sn 189.927†	4073.8	0.4870 mg/L		0.01171	0.4870 mg/L		0.01171	2.40%
Ti 337.279†	8673.4	0.4851 mg/L		0.00678	0.4851 mg/L		0.00678	1.40%
Tl 351.924†	5416.0	0.4747 mg/L		0.01186	0.4747 mg/L		0.01186	2.50%
V 290.880†	105274.4	0.4994 mg/L		0.01053	0.4994 mg/L		0.01053	2.11%
Zn 206.200†	70166.4	0.9823 mg/L		0.01617	0.9823 mg/L		0.01617	1.65%
Zr 343.823†	439.4	0.0009 mg/L		0.00005	0.0009 mg/L		0.00005	5.46%

Sequence No.: 36

Sample ID: B371701-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 57

Date Collected: 4/18/2024 2:27:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371701-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5099740.9	100.9 %		0.64				0.63%
Y radial	183301.8	104.6 %		0.72				0.69%
Ag 328.068†	129298.5	0.4563 mg/L		0.00551	0.4563 mg/L		0.00551	1.21%
Al 396.153†	1942.3	0.5023 mg/L		0.01054	0.5023 mg/L		0.01054	2.10%
As 188.979†	1496.3	0.4646 mg/L		0.00081	0.4646 mg/L		0.00081	0.17%
B 208.889†	16936.5	0.9151 mg/L		0.01134	0.9151 mg/L		0.01134	1.24%
Ba 233.527†	79985.8	0.4879 mg/L		0.00629	0.4879 mg/L		0.00629	1.29%
Be 313.107†	201636.6	0.4856 mg/L		0.00894	0.4856 mg/L		0.00894	1.84%
Ca 317.933†	25796.4	3.924 mg/L		0.0376	3.924 mg/L		0.0376	0.96%
Cd 228.802†	54813.6	0.4870 mg/L		0.00582	0.4870 mg/L		0.00582	1.20%

Co	228.616†	47292.1	0.4825 mg/L	0.00536	0.4825 mg/L	0.00536	1.11%
Cr	267.716†	61675.4	0.4843 mg/L	0.00731	0.4843 mg/L	0.00731	1.51%
Cu	327.393†	160518.0	0.9386 mg/L	0.00055	0.9386 mg/L	0.00055	0.06%
Fe	238.204†	8698.9	3.880 mg/L	0.0494	3.880 mg/L	0.0494	1.27%
K	766.490†	11734.6	3.833 mg/L	0.0292	3.833 mg/L	0.0292	0.76%
Mg	285.213†	32061.6	3.999 mg/L	0.0323	3.999 mg/L	0.0323	0.81%
Mn	257.610†	11393.4	0.4817 mg/L	0.00258	0.4817 mg/L	0.00258	0.54%
Mo	202.031†	11764.8	0.4822 mg/L	0.00675	0.4822 mg/L	0.00675	1.40%
Na	589.592†	50291.2	4.799 mg/L	0.0251	4.799 mg/L	0.0251	0.52%
Ni	231.604†	18867.8	0.4848 mg/L	0.00794	0.4848 mg/L	0.00794	1.64%
Pb	220.353†	5987.6	0.4926 mg/L	0.00354	0.4926 mg/L	0.00354	0.72%
Sb	206.836†	2987.2	0.4848 mg/L	0.00478	0.4848 mg/L	0.00478	0.99%
Se	196.026†	947.6	0.4938 mg/L	0.00777	0.4938 mg/L	0.00777	1.57%
Sn	189.927†	4033.1	0.4821 mg/L	0.00315	0.4821 mg/L	0.00315	0.65%
Ti	337.279†	8697.9	0.4865 mg/L	0.00405	0.4865 mg/L	0.00405	0.83%
Tl	351.924†	5298.3	0.4644 mg/L	0.00855	0.4644 mg/L	0.00855	1.84%
V	290.880†	105024.2	0.4982 mg/L	0.00580	0.4982 mg/L	0.00580	1.16%
Zn	206.200†	69163.5	0.9683 mg/L	0.01266	0.9683 mg/L	0.01266	1.31%
Zr	343.823†	200.8	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	43.90%

Sequence No.: 37

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/18/2024 2:31:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y axial	4941539.8	97.76	%	0.835			0.85%
Y radial	177800.4	101.5	%	1.72			1.69%
Ag 328.068†	658715.8	2.294	mg/L	0.0152	2.294	mg/L	0.66%
QC value within limits for Ag 328.068			Recovery =	91.75%			
Al 396.153†	35718.6	9.332	mg/L	0.0372	9.332	mg/L	0.40%
QC value within limits for Al 396.153			Recovery =	93.32%			
As 188.979†	15273.9	4.733	mg/L	0.0743	4.733	mg/L	1.57%
QC value within limits for As 188.979			Recovery =	94.65%			
B 208.889†	85149.0	4.482	mg/L	0.0172	4.482	mg/L	0.38%
QC value less than the lower limit for B 208.889			Recovery =	89.64%			
Ba 233.527†	787735.8	4.809	mg/L	0.0219	4.809	mg/L	0.46%
QC value within limits for Ba 233.527			Recovery =	96.19%			
Be 313.107†	1983685.7	4.777	mg/L	0.1190	4.777	mg/L	2.49%
QC value within limits for Be 313.107			Recovery =	95.55%			
Ca 317.933†	62058.8	9.441	mg/L	0.0769	9.441	mg/L	0.81%
QC value within limits for Ca 317.933			Recovery =	94.41%			
Cd 228.802†	536840.1	4.765	mg/L	0.0209	4.765	mg/L	0.44%
QC value within limits for Cd 228.802			Recovery =	95.30%			
Co 228.616†	468491.1	4.780	mg/L	0.0219	4.780	mg/L	0.46%
QC value within limits for Co 228.616			Recovery =	95.61%			
Cr 267.716†	609026.1	4.783	mg/L	0.0198	4.783	mg/L	0.41%
QC value within limits for Cr 267.716			Recovery =	95.66%			
Cu 327.393†	804261.9	4.720	mg/L	0.0059	4.720	mg/L	0.12%
QC value within limits for Cu 327.393			Recovery =	94.40%			
Fe 238.204†	10277.5	4.607	mg/L	0.0373	4.607	mg/L	0.81%
QC value within limits for Fe 238.204			Recovery =	92.14%			
K 766.490†	29035.7	9.483	mg/L	0.0394	9.483	mg/L	0.42%
QC value within limits for K 766.490			Recovery =	94.83%			
Mg 285.213†	76008.7	9.450	mg/L	0.0396	9.450	mg/L	0.42%
QC value within limits for Mg 285.213			Recovery =	94.50%			
Mn 257.610†	110129.3	4.654	mg/L	0.0316	4.654	mg/L	0.68%
QC value within limits for Mn 257.610			Recovery =	93.07%			
Mo 202.031†	116671.9	4.782	mg/L	0.0234	4.782	mg/L	0.49%
QC value within limits for Mo 202.031			Recovery =	95.65%			
Na 589.592†	115209.3	10.99	mg/L	0.248	10.99	mg/L	2.25%
QC value within limits for Na 589.592			Recovery =	109.95%			
Ni 231.604†	185595.7	4.770	mg/L	0.0223	4.770	mg/L	0.47%
QC value within limits for Ni 231.604			Recovery =	95.41%			

Pb 220.353†	58202.4	4.799 mg/L	0.0686	4.799 mg/L	0.0686	1.43%
QC value within limits for Pb 220.353	Recovery = 95.99%					
Sb 206.836†	29157.4	4.733 mg/L	0.0662	4.733 mg/L	0.0662	1.40%
QC value within limits for Sb 206.836	Recovery = 94.65%					
Se 196.026†	9150.1	4.778 mg/L	0.0549	4.778 mg/L	0.0549	1.15%
QC value within limits for Se 196.026	Recovery = 95.56%					
Sn 189.927†	40252.7	4.807 mg/L	0.0671	4.807 mg/L	0.0671	1.40%
QC value within limits for Sn 189.927	Recovery = 96.14%					
Ti 337.279†	84293.4	4.712 mg/L	0.0158	4.712 mg/L	0.0158	0.33%
QC value within limits for Ti 337.279	Recovery = 94.24%					
Tl 351.924†	27176.8	2.348 mg/L	0.0255	2.348 mg/L	0.0255	1.09%
QC value within limits for Tl 351.924	Recovery = 93.94%					
V 290.880†	1023419.1	4.857 mg/L	0.0207	4.857 mg/L	0.0207	0.43%
QC value within limits for V 290.880	Recovery = 97.14%					
Zn 206.200†	340205.6	4.784 mg/L	0.0308	4.784 mg/L	0.0308	0.64%
QC value within limits for Zn 206.200	Recovery = 95.68%					
Zr 343.823†	2076723.0	4.822 mg/L	0.0141	4.822 mg/L	0.0141	0.29%
QC Failed. Continue with analysis.						

Sequence No.: 38

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/18/2024 2:37:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4969584.7	98.31 %	1.466			1.49%
Y radial	178692.4	102.0 %	0.55			0.54%
Ag 328.068†	1243.8	0.0044 mg/L	0.00049	0.0044 mg/L	0.00049	11.09%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-6.7	-0.0019 mg/L	0.00040	-0.0019 mg/L	0.00040	21.50%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	2.7	0.0008 mg/L	0.00099	0.0008 mg/L	0.00099	121.13%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	376.4	0.0208 mg/L	0.00088	0.0208 mg/L	0.00088	4.25%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	23.1	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	23.76%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	-129.1	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	9.06%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	1.7	0.0003 mg/L	0.00096	0.0003 mg/L	0.00096	378.67%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	18.8	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	42.83%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	22.0	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	44.66%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	22.2	0.0002 mg/L	0.00016	0.0002 mg/L	0.00016	91.41%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	354.9	0.0021 mg/L	0.00012	0.0021 mg/L	0.00012	5.81%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	15.9	0.0071 mg/L	0.00087	0.0071 mg/L	0.00087	12.20%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	77.2	0.0252 mg/L	0.01086	0.0252 mg/L	0.01086	43.07%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1.7	0.0002 mg/L	0.00040	0.0002 mg/L	0.00040	178.38%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	0.9	0.0000 mg/L	0.00017	0.0000 mg/L	0.00017	435.90%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	34.5	0.0014 mg/L	0.00021	0.0014 mg/L	0.00021	15.13%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	11221.3	1.071 mg/L	0.0144	1.071 mg/L	0.0144	1.34%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-2.7	-0.0001 mg/L	0.00026	-0.0001 mg/L	0.00026	370.69%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	8.5	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	29.59%

QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† -2.4 -0.0004 mg/L 0.00008 -0.0004 mg/L 0.00008 21.99%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 2.6 0.0014 mg/L 0.00185 0.0014 mg/L 0.00185 135.47%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 3.5 0.0004 mg/L 0.00029 0.0004 mg/L 0.00029 69.23%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† -11.0 -0.0006 mg/L 0.00004 -0.0006 mg/L 0.00004 7.21%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 19.9 0.0017 mg/L 0.00922 0.0017 mg/L 0.00922 528.05%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 524.7 0.0025 mg/L 0.00046 0.0025 mg/L 0.00046 18.63%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 108.4 0.0014 mg/L 0.00015 0.0014 mg/L 0.00015 10.71%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -40.4 -0.0001 mg/L 0.00012 -0.0001 mg/L 0.00012 130.25%
 All analyte(s) passed QC.

Sequence No.: 39
 Sample ID: B371701-MS1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 58
 Date Collected: 4/18/2024 2:43:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371701-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4879311.9	96.52	%	0.352			0.36%
Y radial	177518.5	101.3	%	1.44			1.42%
Ag 328.068†	136545.0	0.4818	mg/L	0.00518	0.4818 mg/L	0.00518	1.08%
Al 396.153†	9500.2	2.525	mg/L	0.0320	2.525 mg/L	0.0320	1.27%
As 188.979†	1530.5	0.4777	mg/L	0.00258	0.4777 mg/L	0.00258	0.54%
B 208.889†	18513.6	0.9946	mg/L	0.01267	0.9946 mg/L	0.01267	1.27%
Ba 233.527†	94774.2	0.5772	mg/L	0.00474	0.5772 mg/L	0.00474	0.82%
Be 313.107†	210540.9	0.5071	mg/L	0.00739	0.5071 mg/L	0.00739	1.46%
Ca 317.933†	188275.8	28.64	mg/L	0.367	28.64 mg/L	0.367	1.28%
Cd 228.802†	56470.3	0.5018	mg/L	0.00495	0.5018 mg/L	0.00495	0.99%
Co 228.616†	47883.2	0.4888	mg/L	0.00434	0.4888 mg/L	0.00434	0.89%
Cr 267.716†	62857.9	0.4934	mg/L	0.00458	0.4934 mg/L	0.00458	0.93%
Cu 327.393†	177458.7	1.038	mg/L	0.0134	1.038 mg/L	0.0134	1.29%
Fe 238.204†	23831.1	10.63	mg/L	0.125	10.63 mg/L	0.125	1.17%
K 766.490†	28679.2	9.367	mg/L	0.1134	9.367 mg/L	0.1134	1.21%
Mg 285.213†	56312.9	7.020	mg/L	0.0852	7.020 mg/L	0.0852	1.21%
Mn 257.610†	19193.4	0.8118	mg/L	0.00998	0.8118 mg/L	0.00998	1.23%
Mo 202.031†	15650.2	0.6415	mg/L	0.00186	0.6415 mg/L	0.00186	0.29%
Na 589.592†	708386.1	67.60	mg/L	1.101	67.60 mg/L	1.101	1.63%
Ni 231.604†	19033.6	0.4891	mg/L	0.00514	0.4891 mg/L	0.00514	1.05%
Pb 220.353†	7600.6	0.6256	mg/L	0.00189	0.6256 mg/L	0.00189	0.30%
Sb 206.836†	3054.7	0.4965	mg/L	0.00087	0.4965 mg/L	0.00087	0.18%
Se 196.026†	957.9	0.4965	mg/L	0.00332	0.4965 mg/L	0.00332	0.67%
Sn 189.927†	3884.1	0.4643	mg/L	0.00085	0.4643 mg/L	0.00085	0.18%
Ti 337.279†	10647.0	0.5955	mg/L	0.00664	0.5955 mg/L	0.00664	1.12%
Tl 351.924†	5723.4	0.5057	mg/L	0.00279	0.5057 mg/L	0.00279	0.55%
V 290.880†	108088.6	0.5122	mg/L	0.00526	0.5122 mg/L	0.00526	1.03%
Zn 206.200†	79472.4	1.107	mg/L	0.0079	1.107 mg/L	0.0079	0.71%
Zr 343.823†	1730.2	0.0038	mg/L	0.00059	0.0038 mg/L	0.00059	15.72%

Sequence No.: 40
 Sample ID: B371701-DUP1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time: 110

Autosampler Location: 59
 Date Collected: 4/18/2024 2:47:41 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:
 Auto Dilution Factor: 1

Mean Data: B371701-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4845150.5	95.85	%	0.583				0.61%
Y radial	179775.3	102.6	%	2.40				2.34%
Ag 328.068†	522.9	0.0019	mg/L	0.00015	0.0019	mg/L	0.00015	7.91%
Al 396.153†	6265.2	1.676	mg/L	0.0437	1.676	mg/L	0.0437	2.61%
As 188.979†	-14.6	-0.0022	mg/L	0.00116	-0.0022	mg/L	0.00116	52.82%
B 208.889†	1464.1	0.0736	mg/L	0.00104	0.0736	mg/L	0.00104	1.41%
Ba 233.527†	13764.2	0.0831	mg/L	0.00101	0.0831	mg/L	0.00101	1.22%
Be 313.107†	-60.7	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	31.60%
Ca 317.933†	159119.9	24.21	mg/L	0.399	24.21	mg/L	0.399	1.65%
Cd 228.802†	43.2	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	6.50%
Co 228.616†	297.0	0.0033	mg/L	0.00004	0.0033	mg/L	0.00004	1.37%
Cr 267.716†	695.4	0.0053	mg/L	0.00008	0.0053	mg/L	0.00008	1.43%
Cu 327.393†	6717.6	0.0393	mg/L	0.00064	0.0393	mg/L	0.00064	1.63%
Fe 238.204†	14903.6	6.644	mg/L	0.1779	6.644	mg/L	0.1779	2.68%
K 766.490†	15948.7	5.209	mg/L	0.0832	5.209	mg/L	0.0832	1.60%
Mg 285.213†	23390.9	2.914	mg/L	0.0751	2.914	mg/L	0.0751	2.58%
Mn 257.610†	7665.1	0.3244	mg/L	0.00854	0.3244	mg/L	0.00854	2.63%
Mo 202.031†	3702.5	0.1518	mg/L	0.00141	0.1518	mg/L	0.00141	0.93%
Na 589.592†	649049.4	61.94	mg/L	0.706	61.94	mg/L	0.706	1.14%
Ni 231.604†	324.2	0.0083	mg/L	0.00014	0.0083	mg/L	0.00014	1.65%
Pb 220.353†	1683.0	0.1388	mg/L	0.00056	0.1388	mg/L	0.00056	0.41%
Sb 206.836†	20.1	0.0040	mg/L	0.00123	0.0040	mg/L	0.00123	31.05%
Se 196.026†	6.8	0.0009	mg/L	0.00318	0.0009	mg/L	0.00318	368.10%
Sn 189.927†	-181.4	-0.0217	mg/L	0.00081	-0.0217	mg/L	0.00081	3.74%
Ti 337.279†	1597.8	0.0894	mg/L	0.00271	0.0894	mg/L	0.00271	3.03%
Tl 351.924†	-9.1	0.0032	mg/L	0.00446	0.0032	mg/L	0.00446	140.67%
V 290.880†	2370.0	0.0107	mg/L	0.00056	0.0107	mg/L	0.00056	5.18%
Zn 206.200†	7685.4	0.1018	mg/L	0.00088	0.1018	mg/L	0.00088	0.86%
Zr 343.823†	462.4	0.0009	mg/L	0.00035	0.0009	mg/L	0.00035	37.70%

Sequence No.: 41

Sample ID: 24D1757-03

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 60

Date Collected: 4/18/2024 2:53:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1757-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4825104.6	95.45	%	0.976				1.02%
Y radial	179836.4	102.6	%	1.44				1.40%
Ag 328.068†	575.8	0.0021	mg/L	0.00029	0.0021	mg/L	0.00029	14.16%
Al 396.153†	6584.5	1.761	mg/L	0.0262	1.761	mg/L	0.0262	1.49%
As 188.979†	-10.7	-0.0009	mg/L	0.00210	-0.0009	mg/L	0.00210	246.19%
B 208.889†	1410.1	0.0704	mg/L	0.00050	0.0704	mg/L	0.00050	0.71%
Ba 233.527†	13984.0	0.0844	mg/L	0.00125	0.0844	mg/L	0.00125	1.48%
Be 313.107†	-77.1	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	14.72%
Ca 317.933†	162833.7	24.77	mg/L	0.216	24.77	mg/L	0.216	0.87%
Cd 228.802†	38.6	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	16.61%
Co 228.616†	297.5	0.0033	mg/L	0.00007	0.0033	mg/L	0.00007	2.14%
Cr 267.716†	721.3	0.0055	mg/L	0.00019	0.0055	mg/L	0.00019	3.45%
Cu 327.393†	6770.7	0.0396	mg/L	0.00085	0.0396	mg/L	0.00085	2.15%
Fe 238.204†	15348.6	6.843	mg/L	0.0983	6.843	mg/L	0.0983	1.44%
K 766.490†	16014.5	5.231	mg/L	0.0642	5.231	mg/L	0.0642	1.23%
Mg 285.213†	23953.1	2.984	mg/L	0.0390	2.984	mg/L	0.0390	1.31%
Mn 257.610†	7852.5	0.3323	mg/L	0.00475	0.3323	mg/L	0.00475	1.43%
Mo 202.031†	3767.9	0.1544	mg/L	0.00152	0.1544	mg/L	0.00152	0.98%
Na 589.592†	625997.3	59.74	mg/L	0.413	59.74	mg/L	0.413	0.69%
Ni 231.604†	335.0	0.0086	mg/L	0.00033	0.0086	mg/L	0.00033	3.83%
Pb 220.353†	1706.1	0.1407	mg/L	0.00139	0.1407	mg/L	0.00139	0.99%
Sb 206.836†	19.9	0.0040	mg/L	0.00126	0.0040	mg/L	0.00126	31.83%
Se 196.026†	-0.2	-0.0029	mg/L	0.00207	-0.0029	mg/L	0.00207	72.49%
Sn 189.927†	-185.1	-0.0221	mg/L	0.00008	-0.0221	mg/L	0.00008	0.35%
Ti 337.279†	1712.5	0.0958	mg/L	0.00089	0.0958	mg/L	0.00089	0.93%
Tl 351.924†	-60.1	-0.0012	mg/L	0.00573	-0.0012	mg/L	0.00573	473.21%

V 290.880†	2292.2	0.0104 mg/L	0.00094	0.0104 mg/L	0.00094	9.06%
Zn 206.200†	7870.8	0.1046 mg/L	0.00112	0.1046 mg/L	0.00112	1.07%
Zr 343.823†	465.3	0.0009 mg/L	0.00018	0.0009 mg/L	0.00018	19.29%

Sequence No.: 42

Sample ID: 24D1936-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 61

Date Collected: 4/18/2024 2:58:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1936-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4723142.1	93.43 %		0.884			0.95%
Y radial	171820.2	98.07 %		0.805			0.82%
Ag 328.068†	622.4	0.0022 mg/L		0.00007	0.0022 mg/L	0.00007	2.98%
Al 396.153†	1232.4	0.3307 mg/L		0.00378	0.3307 mg/L	0.00378	1.14%
As 188.979†	-7.6	-0.0019 mg/L		0.00146	-0.0019 mg/L	0.00146	77.41%
B 208.889†	2234.9	0.1239 mg/L		0.00124	0.1239 mg/L	0.00124	1.00%
Ba 233.527†	5380.9	0.0328 mg/L		0.00035	0.0328 mg/L	0.00035	1.08%
Be 313.107†	-64.7	-0.0002 mg/L		0.00003	-0.0002 mg/L	0.00003	18.06%
Ca 317.933†	161765.8	24.61 mg/L		0.145	24.61 mg/L	0.145	0.59%
Cd 228.802†	17.6	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	7.21%
Co 228.616†	62.9	0.0006 mg/L		0.00004	0.0006 mg/L	0.00004	6.56%
Cr 267.716†	86.6	0.0006 mg/L		0.00010	0.0006 mg/L	0.00010	15.18%
Cu 327.393†	900.6	0.0053 mg/L		0.00020	0.0053 mg/L	0.00020	3.75%
Fe 238.204†	113.3	0.0505 mg/L		0.00067	0.0505 mg/L	0.00067	1.33%
K 766.490†	32887.3	10.74 mg/L		0.089	10.74 mg/L	0.089	0.83%
Mg 285.213†	26128.2	3.250 mg/L		0.0219	3.250 mg/L	0.0219	0.67%
Mn 257.610†	2406.2	0.1017 mg/L		0.00140	0.1017 mg/L	0.00140	1.38%
Mo 202.031†	40.4	0.0017 mg/L		0.00007	0.0017 mg/L	0.00007	4.18%
Na 589.592†	1236265.6	118.0 mg/L		0.76	118.0 mg/L	0.76	0.64%
Ni 231.604†	185.8	0.0048 mg/L		0.00023	0.0048 mg/L	0.00023	4.80%
Pb 220.353†	23.0	0.0019 mg/L		0.00091	0.0019 mg/L	0.00091	47.52%
Sb 206.836†	19.3	0.0030 mg/L		0.00051	0.0030 mg/L	0.00051	16.79%
Se 196.026†	5.3	-0.0005 mg/L		0.00274	-0.0005 mg/L	0.00274	595.91%
Sn 189.927†	-197.0	-0.0236 mg/L		0.00084	-0.0236 mg/L	0.00084	3.58%
Ti 337.279†	4.2	0.0002 mg/L		0.00013	0.0002 mg/L	0.00013	53.49%
Tl 351.924†	51.3	0.0045 mg/L		0.00680	0.0045 mg/L	0.00680	150.51%
V 290.880†	1344.3	0.0064 mg/L		0.00074	0.0064 mg/L	0.00074	11.64%
Zn 206.200†	2825.5	0.0295 mg/L		0.00039	0.0295 mg/L	0.00039	1.33%
Zr 343.823†	51.5	0.0001 mg/L		0.00014	0.0001 mg/L	0.00014	116.84%

Sequence No.: 43

Sample ID: 24D1993-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 62

Date Collected: 4/18/2024 3:04:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D1993-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4866551.5	96.27 %		0.595			0.62%
Y radial	176942.4	101.0 %		0.67			0.66%
Ag 328.068†	659.1	0.0023 mg/L		0.00019	0.0023 mg/L	0.00019	7.94%
Al 396.153†	1670.5	0.4483 mg/L		0.00243	0.4483 mg/L	0.00243	0.54%
As 188.979†	-4.2	-0.0004 mg/L		0.00295	-0.0004 mg/L	0.00295	656.74%
B 208.889†	325.8	0.0180 mg/L		0.00035	0.0180 mg/L	0.00035	1.92%
Ba 233.527†	3823.8	0.0232 mg/L		0.00024	0.0232 mg/L	0.00024	1.04%
Be 313.107†	-82.2	-0.0002 mg/L		0.00001	-0.0002 mg/L	0.00001	4.67%
Ca 317.933†	154425.4	23.49 mg/L		0.166	23.49 mg/L	0.166	0.71%
Cd 228.802†	12.4	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	32.19%
Co 228.616†	58.5	0.0006 mg/L		0.00003	0.0006 mg/L	0.00003	4.44%
Cr 267.716†	179.4	0.0014 mg/L		0.00003	0.0014 mg/L	0.00003	1.97%

Cu 327.393†	336.1	0.0020 mg/L	0.00022	0.0020 mg/L	0.00022	11.06%
Fe 238.204†	1578.0	0.7035 mg/L	0.00574	0.7035 mg/L	0.00574	0.82%
K 766.490†	11762.6	3.842 mg/L	0.0146	3.842 mg/L	0.0146	0.38%
Mg 285.213†	19350.2	2.406 mg/L	0.0142	2.406 mg/L	0.0142	0.59%
Mn 257.610†	1024.3	0.0433 mg/L	0.00042	0.0433 mg/L	0.00042	0.97%
Mo 202.031†	33.0	0.0014 mg/L	0.00003	0.0014 mg/L	0.00003	2.04%
Na 589.592†	373337.7	35.63 mg/L	0.261	35.63 mg/L	0.261	0.73%
Ni 231.604†	73.2	0.0019 mg/L	0.00031	0.0019 mg/L	0.00031	16.68%
Pb 220.353†	33.7	0.0028 mg/L	0.00015	0.0028 mg/L	0.00015	5.46%
Sb 206.836†	18.0	0.0028 mg/L	0.00124	0.0028 mg/L	0.00124	43.41%
Se 196.026†	11.8	0.0033 mg/L	0.00182	0.0033 mg/L	0.00182	55.49%
Sn 189.927†	-185.9	-0.0222 mg/L	0.00052	-0.0222 mg/L	0.00052	2.32%
Ti 337.279†	328.9	0.0184 mg/L	0.00008	0.0184 mg/L	0.00008	0.42%
Tl 351.924†	104.0	0.0095 mg/L	0.00273	0.0095 mg/L	0.00273	28.66%
V 290.880†	980.1	0.0046 mg/L	0.00025	0.0046 mg/L	0.00025	5.35%
Zn 206.200†	1346.0	0.0157 mg/L	0.00011	0.0157 mg/L	0.00011	0.72%
Zr 343.823†	96.5	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	46.50%

Sequence No.: 44

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 7

Date Collected: 4/18/2024 3:10:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5005302.6	99.02	%	1.619				1.64%
Y radial	178016.2	101.6	%	0.89				0.88%
Ag 328.068†	859.9	0.0030	mg/L	0.00012	0.0030	mg/L	0.00012	4.08%
Al 396.153†	31.1	0.0083	mg/L	0.00453	0.0083	mg/L	0.00453	54.35%
As 188.979†	-1.7	-0.0005	mg/L	0.00112	-0.0005	mg/L	0.00112	206.09%
B 208.889†	203.6	0.0113	mg/L	0.00049	0.0113	mg/L	0.00049	4.39%
Ba 233.527†	32.7	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	20.22%
Be 313.107†	-97.3	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	8.90%
Ca 317.933†	33.3	0.0051	mg/L	0.00201	0.0051	mg/L	0.00201	39.63%
Cd 228.802†	14.1	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	64.37%
Co 228.616†	13.2	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	30.37%
Cr 267.716†	-12.0	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00022	237.29%
Cu 327.393†	-26.8	-0.0002	mg/L	0.00007	-0.0002	mg/L	0.00007	43.33%
Fe 238.204†	14.0	0.0062	mg/L	0.00034	0.0062	mg/L	0.00034	5.49%
K 766.490†	59.1	0.0193	mg/L	0.00670	0.0193	mg/L	0.00670	34.71%
Mg 285.213†	11.0	0.0014	mg/L	0.00018	0.0014	mg/L	0.00018	12.86%
Mn 257.610†	-2.4	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	57.13%
Mo 202.031†	13.4	0.0006	mg/L	0.00018	0.0006	mg/L	0.00018	32.63%
Na 589.592†	7487.5	0.7145	mg/L	0.01645	0.7145	mg/L	0.01645	2.30%
Ni 231.604†	-2.1	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	260.18%
Pb 220.353†	-7.1	-0.0006	mg/L	0.00021	-0.0006	mg/L	0.00021	36.27%
Sb 206.836†	1.0	0.0002	mg/L	0.00132	0.0002	mg/L	0.00132	730.31%
Se 196.026†	-3.5	-0.0018	mg/L	0.00089	-0.0018	mg/L	0.00089	48.33%
Sn 189.927†	-2.6	-0.0003	mg/L	0.00036	-0.0003	mg/L	0.00036	115.63%
Ti 337.279†	-7.4	-0.0004	mg/L	0.00012	-0.0004	mg/L	0.00012	28.00%
Tl 351.924†	4.9	0.0004	mg/L	0.00714	0.0004	mg/L	0.00714	>999.9%
V 290.880†	557.3	0.0026	mg/L	0.00076	0.0026	mg/L	0.00076	28.57%
Zn 206.200†	55.9	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	6.01%
Zr 343.823†	-63.1	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	31.46%

User canceled analysis.

=====
Analysis Begun

Start Time: 4/18/2024 3:16:00 PM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/18/2024 3:16:01 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====
Analysis Begun

Start Time: 4/18/2024 3:16:33 PM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 45

Autosampler Location: 63

Sample ID: B370707-BLK1

Date Collected: 4/18/2024 3:16:33 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====
Mean Data: B370707-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4940160.0	97.73 %	0.326			0.33%
Y radial	173422.9	98.99 %	1.147			1.16%
Ag 328.068†	819.7	0.0029 mg/L	0.00013	0.0029 mg/L	0.00013	4.47%
Al 396.153†	39.5	0.0106 mg/L	0.00292	0.0106 mg/L	0.00292	27.58%
As 188.979†	0.7	0.0002 mg/L	0.00119	0.0002 mg/L	0.00119	586.95%
B 208.889†	211.5	0.0117 mg/L	0.00023	0.0117 mg/L	0.00023	1.92%
Ba 233.527†	31.6	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	23.37%
Be 313.107†	-73.2	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	22.88%
Ca 317.933†	160.5	0.0244 mg/L	0.00234	0.0244 mg/L	0.00234	9.59%
Cd 228.802†	15.6	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	47.02%
Co 228.616†	18.7	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	11.99%
Cr 267.716†	0.5	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	827.52%
Cu 327.393†	246.0	0.0014 mg/L	0.00039	0.0014 mg/L	0.00039	27.20%
Fe 238.204†	13.4	0.0060 mg/L	0.00067	0.0060 mg/L	0.00067	11.21%
K 766.490†	70.8	0.0231 mg/L	0.01035	0.0231 mg/L	0.01035	44.77%
Mg 285.213†	9.3	0.0012 mg/L	0.00018	0.0012 mg/L	0.00018	15.58%
Mn 257.610†	4.5	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	95.76%
Mo 202.031†	10.8	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	25.83%
Na 589.592†	6405.8	0.6113 mg/L	0.00544	0.6113 mg/L	0.00544	0.89%
Ni 231.604†	3.0	0.0001 mg/L	0.00022	0.0001 mg/L	0.00022	288.71%
Pb 220.353†	-6.1	-0.0005 mg/L	0.00075	-0.0005 mg/L	0.00075	148.42%
Sb 206.836†	-2.0	-0.0003 mg/L	0.00066	-0.0003 mg/L	0.00066	206.15%
Se 196.026†	-0.6	-0.0003 mg/L	0.00144	-0.0003 mg/L	0.00144	450.84%
Sn 189.927†	2.8	0.0003 mg/L	0.00046	0.0003 mg/L	0.00046	136.10%

Ti 337.279†	-7.1	-0.0004 mg/L	0.00030	-0.0004 mg/L	0.00030	74.37%
Tl 351.924†	15.1	0.0013 mg/L	0.00282	0.0013 mg/L	0.00282	214.23%
V 290.880†	813.6	0.0039 mg/L	0.00028	0.0039 mg/L	0.00028	7.37%
Zn 206.200†	138.1	0.0019 mg/L	0.00004	0.0019 mg/L	0.00004	2.35%
Zr 343.823†	-63.2	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	18.38%

Sequence No.: 46

Sample ID: B370707-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 64

Date Collected: 4/18/2024 3:22:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4911798.4	97.17	%	0.439				0.45%
Y radial	176042.1	100.5	%	1.82				1.81%
Ag 328.068†	149481.1	0.5273	mg/L	0.00218	0.5273	mg/L	0.00218	0.41%
Al 396.153†	1977.8	0.5117	mg/L	0.00204	0.5117	mg/L	0.00204	0.40%
As 188.979†	1519.1	0.4717	mg/L	0.00176	0.4717	mg/L	0.00176	0.37%
B 208.889†	17279.6	0.9340	mg/L	0.00121	0.9340	mg/L	0.00121	0.13%
Ba 233.527†	82246.8	0.5017	mg/L	0.00203	0.5017	mg/L	0.00203	0.40%
Be 313.107†	203186.3	0.4893	mg/L	0.00386	0.4893	mg/L	0.00386	0.79%
Ca 317.933†	26304.8	4.002	mg/L	0.0457	4.002	mg/L	0.0457	1.14%
Cd 228.802†	56529.6	0.5024	mg/L	0.00224	0.5024	mg/L	0.00224	0.44%
Co 228.616†	48635.5	0.4962	mg/L	0.00131	0.4962	mg/L	0.00131	0.26%
Cr 267.716†	63475.9	0.4984	mg/L	0.00184	0.4984	mg/L	0.00184	0.37%
Cu 327.393†	162081.1	0.9478	mg/L	0.00727	0.9478	mg/L	0.00727	0.77%
Fe 238.204†	8833.3	3.940	mg/L	0.0413	3.940	mg/L	0.0413	1.05%
K 766.490†	11841.1	3.867	mg/L	0.0512	3.867	mg/L	0.0512	1.32%
Mg 285.213†	32637.3	4.070	mg/L	0.0256	4.070	mg/L	0.0256	0.63%
Mn 257.610†	11645.7	0.4924	mg/L	0.00442	0.4924	mg/L	0.00442	0.90%
Mo 202.031†	11815.1	0.4843	mg/L	0.00204	0.4843	mg/L	0.00204	0.42%
Na 589.592†	41934.6	4.002	mg/L	0.0149	4.002	mg/L	0.0149	0.37%
Ni 231.604†	19341.0	0.4970	mg/L	0.00137	0.4970	mg/L	0.00137	0.28%
Pb 220.353†	5984.0	0.4923	mg/L	0.00205	0.4923	mg/L	0.00205	0.42%
Sb 206.836†	3029.2	0.4914	mg/L	0.00098	0.4914	mg/L	0.00098	0.20%
Se 196.026†	960.0	0.5003	mg/L	0.00320	0.5003	mg/L	0.00320	0.64%
Sn 189.927†	4089.8	0.4889	mg/L	0.00147	0.4889	mg/L	0.00147	0.30%
Ti 337.279†	8809.3	0.4927	mg/L	0.00398	0.4927	mg/L	0.00398	0.81%
Tl 351.924†	5444.0	0.4772	mg/L	0.00558	0.4772	mg/L	0.00558	1.17%
V 290.880†	107369.9	0.5093	mg/L	0.00227	0.5093	mg/L	0.00227	0.45%
Zn 206.200†	71453.5	1.000	mg/L	0.0033	1.000	mg/L	0.0033	0.33%
Zr 343.823†	454.8	0.0010	mg/L	0.00013	0.0010	mg/L	0.00013	13.12%

Sequence No.: 47

Sample ID: B370707-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 65

Date Collected: 4/18/2024 3:26:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4861260.5	96.17	%	0.772				0.80%
Y radial	175840.8	100.4	%	0.99				0.99%
Ag 328.068†	151512.6	0.5344	mg/L	0.00603	0.5344	mg/L	0.00603	1.13%
Al 396.153†	2006.4	0.5189	mg/L	0.00173	0.5189	mg/L	0.00173	0.33%
As 188.979†	1554.9	0.4827	mg/L	0.00456	0.4827	mg/L	0.00456	0.94%
B 208.889†	17591.9	0.9507	mg/L	0.01342	0.9507	mg/L	0.01342	1.41%
Ba 233.527†	83400.4	0.5087	mg/L	0.00681	0.5087	mg/L	0.00681	1.34%
Be 313.107†	208948.3	0.5032	mg/L	0.01208	0.5032	mg/L	0.01208	2.40%
Ca 317.933†	26508.7	4.033	mg/L	0.0198	4.033	mg/L	0.0198	0.49%
Cd 228.802†	57436.8	0.5104	mg/L	0.00672	0.5104	mg/L	0.00672	1.32%

Co 228.616†	49270.8	0.5027 mg/L	0.00682	0.5027 mg/L	0.00682	1.36%
Cr 267.716†	64440.0	0.5060 mg/L	0.00587	0.5060 mg/L	0.00587	1.16%
Cu 327.393†	164033.9	0.9592 mg/L	0.01232	0.9592 mg/L	0.01232	1.28%
Fe 238.204†	8920.0	3.979 mg/L	0.0215	3.979 mg/L	0.0215	0.54%
K 766.490†	11964.9	3.908 mg/L	0.0183	3.908 mg/L	0.0183	0.47%
Mg 285.213†	32851.2	4.097 mg/L	0.0162	4.097 mg/L	0.0162	0.40%
Mn 257.610†	11739.1	0.4963 mg/L	0.00076	0.4963 mg/L	0.00076	0.15%
Mo 202.031†	12142.3	0.4977 mg/L	0.00407	0.4977 mg/L	0.00407	0.82%
Na 589.592†	42028.1	4.011 mg/L	0.0116	4.011 mg/L	0.0116	0.29%
Ni 231.604†	19588.0	0.5033 mg/L	0.00540	0.5033 mg/L	0.00540	1.07%
Pb 220.353†	6148.5	0.5058 mg/L	0.00380	0.5058 mg/L	0.00380	0.75%
Sb 206.836†	3114.8	0.5054 mg/L	0.00537	0.5054 mg/L	0.00537	1.06%
Se 196.026†	987.4	0.5146 mg/L	0.00292	0.5146 mg/L	0.00292	0.57%
Sn 189.927†	4186.2	0.5004 mg/L	0.00288	0.5004 mg/L	0.00288	0.58%
Ti 337.279†	8869.7	0.4961 mg/L	0.00334	0.4961 mg/L	0.00334	0.67%
Tl 351.924†	5573.1	0.4885 mg/L	0.01059	0.4885 mg/L	0.01059	2.17%
V 290.880†	108606.4	0.5152 mg/L	0.00616	0.5152 mg/L	0.00616	1.20%
Zn 206.200†	72668.7	1.017 mg/L	0.0126	1.017 mg/L	0.0126	1.24%
Zr 343.823†	286.0	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	5.32%

Sequence No.: 48

Sample ID: B370707-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 66

Date Collected: 4/18/2024 3:31:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B370707-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4774512.8	94.45 %		1.125			1.19%
Y radial	172889.1	98.68 %		1.685			1.71%
Ag 328.068†	150423.3	0.5306 mg/L		0.00698	0.5306 mg/L	0.00698	1.32%
Al 396.153†	2146.6	0.5564 mg/L		0.00532	0.5564 mg/L	0.00532	0.96%
As 188.979†	1555.7	0.4842 mg/L		0.00583	0.4842 mg/L	0.00583	1.20%
B 208.889†	18236.0	0.9862 mg/L		0.01630	0.9862 mg/L	0.01630	1.65%
Ba 233.527†	85752.3	0.5228 mg/L		0.00693	0.5228 mg/L	0.00693	1.33%
Be 313.107†	213581.7	0.5144 mg/L		0.00922	0.5144 mg/L	0.00922	1.79%
Ca 317.933†	236236.2	35.94 mg/L		0.605	35.94 mg/L	0.605	1.68%
Cd 228.802†	57491.2	0.5109 mg/L		0.00652	0.5109 mg/L	0.00652	1.28%
Co 228.616†	48721.3	0.4971 mg/L		0.00650	0.4971 mg/L	0.00650	1.31%
Cr 267.716†	64438.6	0.5059 mg/L		0.00657	0.5059 mg/L	0.00657	1.30%
Cu 327.393†	169435.6	0.9908 mg/L		0.01326	0.9908 mg/L	0.01326	1.34%
Fe 238.204†	12669.4	5.651 mg/L		0.0257	5.651 mg/L	0.0257	0.45%
K 766.490†	15017.0	4.905 mg/L		0.0061	4.905 mg/L	0.0061	0.12%
Mg 285.213†	79485.3	9.902 mg/L		0.0308	9.902 mg/L	0.0308	0.31%
Mn 257.610†	16334.8	0.6906 mg/L		0.00245	0.6906 mg/L	0.00245	0.35%
Mo 202.031†	12242.2	0.5018 mg/L		0.00634	0.5018 mg/L	0.00634	1.26%
Na 589.592†	650299.8	62.06 mg/L		1.160	62.06 mg/L	1.160	1.87%
Ni 231.604†	19246.1	0.4945 mg/L		0.00649	0.4945 mg/L	0.00649	1.31%
Pb 220.353†	6013.1	0.4946 mg/L		0.00717	0.4946 mg/L	0.00717	1.45%
Sb 206.836†	3120.8	0.5063 mg/L		0.00755	0.5063 mg/L	0.00755	1.49%
Se 196.026†	996.3	0.5148 mg/L		0.01123	0.5148 mg/L	0.01123	2.18%
Sn 189.927†	3959.5	0.4733 mg/L		0.00526	0.4733 mg/L	0.00526	1.11%
Ti 337.279†	9001.6	0.5035 mg/L		0.00107	0.5035 mg/L	0.00107	0.21%
Tl 351.924†	5741.6	0.5043 mg/L		0.01321	0.5043 mg/L	0.01321	2.62%
V 290.880†	109561.8	0.5196 mg/L		0.00784	0.5196 mg/L	0.00784	1.51%
Zn 206.200†	78239.6	1.090 mg/L		0.0110	1.090 mg/L	0.0110	1.01%
Zr 343.823†	442.8	0.0009 mg/L		0.00004	0.0009 mg/L	0.00004	4.59%

Sequence No.: 49

Sample ID: B370707-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 67

Date Collected: 4/18/2024 3:36:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Fe 238.204†	10424.3	4.673 mg/L	0.0409	4.673 mg/L	0.0409	0.88%
QC value within limits for Fe 238.204 Recovery = 93.46%						
K 766.490†	29151.5	9.521 mg/L	0.0734	9.521 mg/L	0.0734	0.77%
QC value within limits for K 766.490 Recovery = 95.21%						
Mg 285.213†	76973.4	9.570 mg/L	0.0696	9.570 mg/L	0.0696	0.73%
QC value within limits for Mg 285.213 Recovery = 95.70%						
Mn 257.610†	111493.0	4.711 mg/L	0.0357	4.711 mg/L	0.0357	0.76%
QC value within limits for Mn 257.610 Recovery = 94.22%						
Mo 202.031†	119150.5	4.884 mg/L	0.0854	4.884 mg/L	0.0854	1.75%
QC value within limits for Mo 202.031 Recovery = 97.68%						
Na 589.592†	104489.9	9.972 mg/L	0.2716	9.972 mg/L	0.2716	2.72%
QC value within limits for Na 589.592 Recovery = 99.72%						
Ni 231.604†	190183.9	4.888 mg/L	0.0901	4.888 mg/L	0.0901	1.84%
QC value within limits for Ni 231.604 Recovery = 97.77%						
Pb 220.353†	59473.9	4.904 mg/L	0.0725	4.904 mg/L	0.0725	1.48%
QC value within limits for Pb 220.353 Recovery = 98.09%						
Sb 206.836†	29709.5	4.822 mg/L	0.0805	4.822 mg/L	0.0805	1.67%
QC value within limits for Sb 206.836 Recovery = 96.44%						
Se 196.026†	9410.4	4.914 mg/L	0.0743	4.914 mg/L	0.0743	1.51%
QC value within limits for Se 196.026 Recovery = 98.28%						
Sn 189.927†	41143.5	4.913 mg/L	0.0795	4.913 mg/L	0.0795	1.62%
QC value within limits for Sn 189.927 Recovery = 98.26%						
Ti 337.279†	85034.7	4.753 mg/L	0.0390	4.753 mg/L	0.0390	0.82%
QC value within limits for Ti 337.279 Recovery = 95.07%						
Tl 351.924†	27783.6	2.401 mg/L	0.0381	2.401 mg/L	0.0381	1.59%
QC value within limits for Tl 351.924 Recovery = 96.04%						
V 290.880†	1049583.4	4.981 mg/L	0.0855	4.981 mg/L	0.0855	1.72%
QC value within limits for V 290.880 Recovery = 99.62%						
Zn 206.200†	351605.1	4.945 mg/L	0.0957	4.945 mg/L	0.0957	1.94%
QC value within limits for Zn 206.200 Recovery = 98.89%						
Zr 343.823†	2111900.5	4.904 mg/L	0.0822	4.904 mg/L	0.0822	1.68%
All analyte(s) passed QC.						

Sequence No.: 51

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/18/2024 3:46:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4985366.0	98.62 %	0.598			0.61%
Y radial	175379.0	100.1 %	0.92			0.91%
Ag 328.068†	959.2	0.0034 mg/L	0.00017	0.0034 mg/L	0.00017	4.91%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-16.5	-0.0045 mg/L	0.00869	-0.0045 mg/L	0.00869	194.29%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	1.4	0.0004 mg/L	0.00037	0.0004 mg/L	0.00037	88.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	325.2	0.0180 mg/L	0.00076	0.0180 mg/L	0.00076	4.21%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	23.1	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	24.72%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-53.4	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	12.08%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	8.5	0.0013 mg/L	0.00228	0.0013 mg/L	0.00228	175.72%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	13.5	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	45.84%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	24.7	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	18.94%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	2.9	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	415.22%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-394.1	-0.0023 mg/L	0.00021	-0.0023 mg/L	0.00021	9.22%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	10.0	0.0045 mg/L	0.00201	0.0045 mg/L	0.00201	44.99%

QC value within limits for Fe 238.204 Recovery = Not calculated
K 766.490† 95.3 0.0311 mg/L 0.02090 0.0311 mg/L 0.02090 67.12%
QC value within limits for K 766.490 Recovery = Not calculated
Mg 285.213† -0.4 -0.0000 mg/L 0.00028 -0.0000 mg/L 0.00028 699.37%
QC value within limits for Mg 285.213 Recovery = Not calculated
Mn 257.610† 4.7 0.0002 mg/L 0.00005 0.0002 mg/L 0.00005 24.47%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 31.0 0.0013 mg/L 0.00016 0.0013 mg/L 0.00016 12.53%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† 2961.9 0.2827 mg/L 0.00968 0.2827 mg/L 0.00968 3.42%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -2.1 -0.0001 mg/L 0.00009 -0.0001 mg/L 0.00009 169.51%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 10.5 0.0009 mg/L 0.00020 0.0009 mg/L 0.00020 23.15%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 1.8 0.0003 mg/L 0.00118 0.0003 mg/L 0.00118 387.79%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 0.7 0.0004 mg/L 0.00060 0.0004 mg/L 0.00060 160.07%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 3.4 0.0004 mg/L 0.00077 0.0004 mg/L 0.00077 191.81%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† 3.6 0.0002 mg/L 0.00033 0.0002 mg/L 0.00033 162.51%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 9.1 0.0008 mg/L 0.00598 0.0008 mg/L 0.00598 758.81%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 552.4 0.0026 mg/L 0.00046 0.0026 mg/L 0.00046 17.46%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 90.1 0.0012 mg/L 0.00008 0.0012 mg/L 0.00008 6.66%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -39.2 -0.0001 mg/L 0.00003 -0.0001 mg/L 0.00003 32.26%
All analyte(s) passed QC.

Sequence No.: 52

Sample ID: 24D0735-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 68

Date Collected: 4/18/2024 3:51:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4802303.1	95.00	%	0.534			0.56%
Y radial	175801.1	100.3	%	2.50			2.49%
Ag 328.068†	697.6	0.0025	mg/L	0.00006	0.0025 mg/L	0.00006	2.27%
Al 396.153†	151.7	0.0407	mg/L	0.00196	0.0407 mg/L	0.00196	4.81%
As 188.979†	-17.1	-0.0042	mg/L	0.00039	-0.0042 mg/L	0.00039	9.28%
B 208.889†	609.1	0.0337	mg/L	0.00055	0.0337 mg/L	0.00055	1.65%
Ba 233.527†	3296.5	0.0199	mg/L	0.00010	0.0199 mg/L	0.00010	0.52%
Be 313.107†	-70.1	-0.0002	mg/L	0.00006	-0.0002 mg/L	0.00006	32.27%
Ca 317.933†	208629.4	31.74	mg/L	0.500	31.74 mg/L	0.500	1.57%
Cd 228.802†	18.1	0.0003	mg/L	0.00003	0.0003 mg/L	0.00003	9.34%
Co 228.616†	62.6	0.0006	mg/L	0.00008	0.0006 mg/L	0.00008	12.32%
Cr 267.716†	572.8	0.0044	mg/L	0.00003	0.0044 mg/L	0.00003	0.78%
Cu 327.393†	-204.0	-0.0012	mg/L	0.00033	-0.0012 mg/L	0.00033	27.81%
Fe 238.204†	3889.2	1.734	mg/L	0.0537	1.734 mg/L	0.0537	3.10%
K 766.490†	2440.4	0.7970	mg/L	0.03342	0.7970 mg/L	0.03342	4.19%
Mg 285.213†	47472.5	5.909	mg/L	0.1900	5.909 mg/L	0.1900	3.22%
Mn 257.610†	4802.6	0.2031	mg/L	0.00596	0.2031 mg/L	0.00596	2.94%
Mo 202.031†	61.8	0.0025	mg/L	0.00035	0.0025 mg/L	0.00035	13.95%
Na 589.592†	572475.2	54.63	mg/L	0.674	54.63 mg/L	0.674	1.23%
Ni 231.604†	82.5	0.0021	mg/L	0.00014	0.0021 mg/L	0.00014	6.78%
Pb 220.353†	28.8	0.0023	mg/L	0.00086	0.0023 mg/L	0.00086	37.05%
Sb 206.836†	14.4	0.0022	mg/L	0.00104	0.0022 mg/L	0.00104	46.57%
Se 196.026†	4.3	-0.0022	mg/L	0.00112	-0.0022 mg/L	0.00112	50.36%
Sn 189.927†	-231.6	-0.0277	mg/L	0.00066	-0.0277 mg/L	0.00066	2.37%
Ti 337.279†	6.5	0.0004	mg/L	0.00033	0.0004 mg/L	0.00033	91.10%
Tl 351.924†	25.0	0.0033	mg/L	0.00122	0.0033 mg/L	0.00122	37.02%

V 290.880†	1301.7	0.0061 mg/L	0.00021	0.0061 mg/L	0.00021	3.48%
Zn 206.200†	6547.4	0.0869 mg/L	0.00094	0.0869 mg/L	0.00094	1.08%
Zr 343.823†	258.6	0.0006 mg/L	0.00007	0.0006 mg/L	0.00007	13.19%

Sequence No.: 53
Sample ID: 24D0735-03
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 69
Date Collected: 4/18/2024 3:57:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4872673.1	96.39 %		2.138			2.22%
Y radial	175059.6	99.92 %		0.660			0.66%
Ag 328.068†	669.9	0.0023 mg/L		0.00010	0.0023 mg/L	0.00010	4.58%
Al 396.153†	2.8	0.0007 mg/L		0.00619	0.0007 mg/L	0.00619	853.51%
As 188.979†	-10.8	-0.0029 mg/L		0.00062	-0.0029 mg/L	0.00062	21.51%
B 208.889†	1216.5	0.0674 mg/L		0.00167	0.0674 mg/L	0.00167	2.48%
Ba 233.527†	3532.0	0.0215 mg/L		0.00043	0.0215 mg/L	0.00043	2.01%
Be 313.107†	-54.1	-0.0002 mg/L		0.00001	-0.0002 mg/L	0.00001	8.38%
Ca 317.933†	160701.2	24.45 mg/L		0.217	24.45 mg/L	0.217	0.89%
Cd 228.802†	25.4	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	20.59%
Co 228.616†	79.3	0.0008 mg/L		0.00002	0.0008 mg/L	0.00002	2.22%
Cr 267.716†	121.9	0.0008 mg/L		0.00003	0.0008 mg/L	0.00003	3.22%
Cu 327.393†	-293.1	-0.0017 mg/L		0.00017	-0.0017 mg/L	0.00017	9.78%
Fe 238.204†	19.4	0.0087 mg/L		0.00232	0.0087 mg/L	0.00232	26.75%
K 766.490†	7667.1	2.504 mg/L		0.0271	2.504 mg/L	0.0271	1.08%
Mg 285.213†	33106.1	4.119 mg/L		0.0343	4.119 mg/L	0.0343	0.83%
Mn 257.610†	9776.7	0.4131 mg/L		0.00419	0.4131 mg/L	0.00419	1.01%
Mo 202.031†	21.1	0.0009 mg/L		0.00007	0.0009 mg/L	0.00007	8.61%
Na 589.592†	152601.8	14.56 mg/L		0.132	14.56 mg/L	0.132	0.90%
Ni 231.604†	45.3	0.0012 mg/L		0.00019	0.0012 mg/L	0.00019	16.18%
Pb 220.353†	18.9	0.0015 mg/L		0.00023	0.0015 mg/L	0.00023	15.18%
Sb 206.836†	15.4	0.0024 mg/L		0.00023	0.0024 mg/L	0.00023	9.60%
Se 196.026†	6.9	0.0001 mg/L		0.00195	0.0001 mg/L	0.00195	>999.9%
Sn 189.927†	-189.8	-0.0227 mg/L		0.00082	-0.0227 mg/L	0.00082	3.62%
Ti 337.279†	-6.0	-0.0003 mg/L		0.00002	-0.0003 mg/L	0.00002	7.08%
Tl 351.924†	-39.0	-0.0034 mg/L		0.00453	-0.0034 mg/L	0.00453	131.81%
V 290.880†	917.6	0.0044 mg/L		0.00094	0.0044 mg/L	0.00094	21.61%
Zn 206.200†	149.6	0.0008 mg/L		0.00015	0.0008 mg/L	0.00015	18.05%
Zr 343.823†	74.3	0.0002 mg/L		0.00011	0.0002 mg/L	0.00011	63.33%

Sequence No.: 54
Sample ID: 24D0735-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 70
Date Collected: 4/18/2024 4:02:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4889676.9	96.73 %		1.089			1.13%
Y radial	174025.0	99.33 %		1.154			1.16%
Ag 328.068†	645.5	0.0023 mg/L		0.00028	0.0023 mg/L	0.00028	12.12%
Al 396.153†	11.3	0.0030 mg/L		0.00195	0.0030 mg/L	0.00195	64.90%
As 188.979†	-6.4	-0.0019 mg/L		0.00160	-0.0019 mg/L	0.00160	84.54%
B 208.889†	746.9	0.0414 mg/L		0.00067	0.0414 mg/L	0.00067	1.61%
Ba 233.527†	5322.3	0.0324 mg/L		0.00029	0.0324 mg/L	0.00029	0.90%
Be 313.107†	-94.1	-0.0003 mg/L		0.00002	-0.0003 mg/L	0.00002	6.82%
Ca 317.933†	60811.6	9.251 mg/L		0.0791	9.251 mg/L	0.0791	0.85%
Cd 228.802†	93.6	0.0009 mg/L		0.00012	0.0009 mg/L	0.00012	13.28%
Co 228.616†	27.2	0.0003 mg/L		0.00014	0.0003 mg/L	0.00014	50.61%
Cr 267.716†	2260.0	0.0177 mg/L		0.00024	0.0177 mg/L	0.00024	1.37%

Cu 327.393†	-340.6	-0.0020 mg/L	0.00035	-0.0020 mg/L	0.00035	17.50%
Fe 238.204†	27.0	0.0121 mg/L	0.00051	0.0121 mg/L	0.00051	4.21%
K 766.490†	4522.9	1.477 mg/L	0.0126	1.477 mg/L	0.0126	0.85%
Mg 285.213†	12095.2	1.505 mg/L	0.0162	1.505 mg/L	0.0162	1.08%
Mn 257.610†	277.6	0.0117 mg/L	0.00019	0.0117 mg/L	0.00019	1.58%
Mo 202.031†	16.6	0.0007 mg/L	0.00028	0.0007 mg/L	0.00028	41.32%
Na 589.592†	122913.4	11.73 mg/L	0.128	11.73 mg/L	0.128	1.09%
Ni 231.604†	21.6	0.0006 mg/L	0.00015	0.0006 mg/L	0.00015	27.23%
Pb 220.353†	3.4	0.0003 mg/L	0.00066	0.0003 mg/L	0.00066	226.29%
Sb 206.836†	5.1	0.0004 mg/L	0.00031	0.0004 mg/L	0.00031	69.33%
Se 196.026†	7.1	0.0025 mg/L	0.00057	0.0025 mg/L	0.00057	23.17%
Sn 189.927†	-95.4	-0.0114 mg/L	0.00006	-0.0114 mg/L	0.00006	0.56%
Ti 337.279†	1.0	0.0001 mg/L	0.00023	0.0001 mg/L	0.00023	408.84%
Tl 351.924†	22.4	0.0020 mg/L	0.01094	0.0020 mg/L	0.01094	560.40%
V 290.880†	1028.6	0.0049 mg/L	0.00041	0.0049 mg/L	0.00041	8.47%
Zn 206.200†	180.8	0.0017 mg/L	0.00012	0.0017 mg/L	0.00012	7.00%
Zr 343.823†	19.8	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	52.14%

Sequence No.: 55

Sample ID: 24D0735-06

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 71

Date Collected: 4/18/2024 4:08:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4747474.2	93.92	%	0.998				1.06%
Y radial	172871.6	98.67	%	1.457				1.48%
Ag 328.068†	656.5	0.0023	mg/L	0.00013	0.0023	mg/L	0.00013	5.59%
Al 396.153†	18.6	0.0049	mg/L	0.00137	0.0049	mg/L	0.00137	27.77%
As 188.979†	-10.0	-0.0024	mg/L	0.00194	-0.0024	mg/L	0.00194	80.32%
B 208.889†	722.6	0.0400	mg/L	0.00023	0.0400	mg/L	0.00023	0.57%
Ba 233.527†	5360.7	0.0327	mg/L	0.00028	0.0327	mg/L	0.00028	0.87%
Be 313.107†	-134.9	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	6.42%
Ca 317.933†	219129.4	33.34	mg/L	0.651	33.34	mg/L	0.651	1.95%
Cd 228.802†	54047.9	0.4885	mg/L	0.00279	0.4885	mg/L	0.00279	0.57%
Co 228.616†	138.2	0.0014	mg/L	0.00006	0.0014	mg/L	0.00006	3.90%
Cr 267.716†	124.2	0.0011	mg/L	0.00008	0.0011	mg/L	0.00008	7.60%
Cu 327.393†	242.9	0.0014	mg/L	0.00010	0.0014	mg/L	0.00010	7.22%
Fe 238.204†	244.3	0.1089	mg/L	0.00095	0.1089	mg/L	0.00095	0.87%
K 766.490†	10448.9	3.413	mg/L	0.0322	3.413	mg/L	0.0322	0.94%
Mg 285.213†	41544.1	5.169	mg/L	0.0504	5.169	mg/L	0.0504	0.97%
Mn 257.610†	1131.7	0.0478	mg/L	0.00060	0.0478	mg/L	0.00060	1.26%
Mo 202.031†	23.8	0.0010	mg/L	0.00032	0.0010	mg/L	0.00032	32.59%
Na 589.592†	535511.6	51.10	mg/L	1.008	51.10	mg/L	1.008	1.97%
Ni 231.604†	108.0	0.0028	mg/L	0.00009	0.0028	mg/L	0.00009	3.15%
Pb 220.353†	22.0	0.0018	mg/L	0.00101	0.0018	mg/L	0.00101	56.14%
Sb 206.836†	18.0	0.0028	mg/L	0.00081	0.0028	mg/L	0.00081	29.04%
Se 196.026†	6.8	-0.0009	mg/L	0.00285	-0.0009	mg/L	0.00285	313.37%
Sn 189.927†	-228.6	-0.0273	mg/L	0.00044	-0.0273	mg/L	0.00044	1.62%
Ti 337.279†	-6.4	-0.0004	mg/L	0.00023	-0.0004	mg/L	0.00023	65.21%
Tl 351.924†	23.5	0.0021	mg/L	0.00444	0.0021	mg/L	0.00444	209.25%
V 290.880†	648.1	0.0031	mg/L	0.00018	0.0031	mg/L	0.00018	5.93%
Zn 206.200†	1430.7	0.0157	mg/L	0.00024	0.0157	mg/L	0.00024	1.53%
Zr 343.823†	102.6	0.0002	mg/L	0.00020	0.0002	mg/L	0.00020	83.42%

Sequence No.: 56

Sample ID: 24D0735-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 72

Date Collected: 4/18/2024 4:14:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4854980.6	96.04	%	1.243			1.29%
Y radial	172538.9	98.48	%	1.911			1.94%
Ag 328.068†	691.9	0.0024	mg/L	0.00020	0.0024 mg/L	0.00020	8.29%
Al 396.153†	19.0	0.0051	mg/L	0.00284	0.0051 mg/L	0.00284	56.03%
As 188.979†	-5.2	-0.0015	mg/L	0.00020	-0.0015 mg/L	0.00020	13.21%
B 208.889†	734.2	0.0407	mg/L	0.00086	0.0407 mg/L	0.00086	2.11%
Ba 233.527†	2115.0	0.0129	mg/L	0.00014	0.0129 mg/L	0.00014	1.06%
Be 313.107†	-73.7	-0.0002	mg/L	0.00005	-0.0002 mg/L	0.00005	23.18%
Ca 317.933†	52049.9	7.918	mg/L	0.1222	7.918 mg/L	0.1222	1.54%
Cd 228.802†	26.4	0.0003	mg/L	0.00006	0.0003 mg/L	0.00006	23.20%
Co 228.616†	26.9	0.0003	mg/L	0.00003	0.0003 mg/L	0.00003	12.23%
Cr 267.716†	52.5	0.0004	mg/L	0.00003	0.0004 mg/L	0.00003	7.29%
Cu 327.393†	-204.3	-0.0012	mg/L	0.00012	-0.0012 mg/L	0.00012	10.28%
Fe 238.204†	26.9	0.0120	mg/L	0.00114	0.0120 mg/L	0.00114	9.51%
K 766.490†	4343.4	1.419	mg/L	0.0103	1.419 mg/L	0.0103	0.72%
Mg 285.213†	10424.1	1.297	mg/L	0.0163	1.297 mg/L	0.0163	1.26%
Mn 257.610†	230.7	0.0097	mg/L	0.00018	0.0097 mg/L	0.00018	1.83%
Mo 202.031†	12.1	0.0005	mg/L	0.00011	0.0005 mg/L	0.00011	21.25%
Na 589.592†	125104.9	11.94	mg/L	0.119	11.94 mg/L	0.119	1.00%
Ni 231.604†	27.2	0.0007	mg/L	0.00019	0.0007 mg/L	0.00019	27.78%
Pb 220.353†	-2.1	-0.0002	mg/L	0.00047	-0.0002 mg/L	0.00047	274.17%
Sb 206.836†	5.7	0.0009	mg/L	0.00082	0.0009 mg/L	0.00082	93.24%
Se 196.026†	0.3	-0.0009	mg/L	0.00089	-0.0009 mg/L	0.00089	94.55%
Sn 189.927†	-85.7	-0.0102	mg/L	0.00090	-0.0102 mg/L	0.00090	8.83%
Ti 337.279†	-2.9	-0.0002	mg/L	0.00007	-0.0002 mg/L	0.00007	40.95%
Tl 351.924†	-24.6	-0.0022	mg/L	0.00686	-0.0022 mg/L	0.00686	315.44%
V 290.880†	874.1	0.0041	mg/L	0.00079	0.0041 mg/L	0.00079	18.99%
Zn 206.200†	150.3	0.0011	mg/L	0.00004	0.0011 mg/L	0.00004	4.07%
Zr 343.823†	-18.3	-0.0000	mg/L	0.00019	-0.0000 mg/L	0.00019	434.66%

Sequence No.: 57

Sample ID: 24D0735-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 73

Date Collected: 4/18/2024 4:19:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4778927.1	94.54	%	1.494			1.58%
Y radial	172733.2	98.59	%	0.671			0.68%
Ag 328.068†	631.3	0.0022	mg/L	0.00044	0.0022 mg/L	0.00044	20.27%
Al 396.153†	11.8	0.0031	mg/L	0.00453	0.0031 mg/L	0.00453	146.27%
As 188.979†	-19.9	-0.0051	mg/L	0.00151	-0.0051 mg/L	0.00151	29.78%
B 208.889†	1258.4	0.0697	mg/L	0.00147	0.0697 mg/L	0.00147	2.10%
Ba 233.527†	3594.8	0.0219	mg/L	0.00035	0.0219 mg/L	0.00035	1.60%
Be 313.107†	-72.3	-0.0002	mg/L	0.00002	-0.0002 mg/L	0.00002	12.51%
Ca 317.933†	351839.3	53.53	mg/L	0.111	53.53 mg/L	0.111	0.21%
Cd 228.802†	5335.2	0.0484	mg/L	0.00098	0.0484 mg/L	0.00098	2.02%
Co 228.616†	71.8	0.0007	mg/L	0.00008	0.0007 mg/L	0.00008	10.34%
Cr 267.716†	186.7	0.0014	mg/L	0.00005	0.0014 mg/L	0.00005	3.78%
Cu 327.393†	-178.2	-0.0010	mg/L	0.00028	-0.0010 mg/L	0.00028	27.27%
Fe 238.204†	43.9	0.0196	mg/L	0.00119	0.0196 mg/L	0.00119	6.09%
K 766.490†	16936.1	5.532	mg/L	0.0264	5.532 mg/L	0.0264	0.48%
Mg 285.213†	44942.4	5.586	mg/L	0.0124	5.586 mg/L	0.0124	0.22%
Mn 257.610†	4597.6	0.1943	mg/L	0.00260	0.1943 mg/L	0.00260	1.34%
Mo 202.031†	37.2	0.0015	mg/L	0.00017	0.0015 mg/L	0.00017	11.26%
Na 589.592†	223885.1	21.37	mg/L	0.068	21.37 mg/L	0.068	0.32%
Ni 231.604†	91.7	0.0024	mg/L	0.00033	0.0024 mg/L	0.00033	13.98%
Pb 220.353†	26.1	0.0021	mg/L	0.00080	0.0021 mg/L	0.00080	37.39%
Sb 206.836†	17.6	0.0027	mg/L	0.00033	0.0027 mg/L	0.00033	12.33%
Se 196.026†	11.2	-0.0008	mg/L	0.00341	-0.0008 mg/L	0.00341	412.18%
Sn 189.927†	-282.6	-0.0338	mg/L	0.00085	-0.0338 mg/L	0.00085	2.51%
Ti 337.279†	-1.4	-0.0001	mg/L	0.00036	-0.0001 mg/L	0.00036	458.80%
Tl 351.924†	13.0	0.0011	mg/L	0.01225	0.0011 mg/L	0.01225	>999.9%

V 290.880†	1033.6	0.0049 mg/L	0.00088	0.0049 mg/L	0.00088	17.98%
Zn 206.200†	157.0	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	22.56%
Zr 343.823†	164.5	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	19.79%

Sequence No.: 58

Sample ID: 24D0735-09

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 74

Date Collected: 4/18/2024 4:25:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-09

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4741066.1	93.79 %		0.279			0.30%
Y radial	170577.4	97.36 %		1.332			1.37%
Ag 328.068†	648.6	0.0023 mg/L		0.00023	0.0023 mg/L	0.00023	10.15%
Al 396.153†	293.3	0.0787 mg/L		0.00432	0.0787 mg/L	0.00432	5.49%
As 188.979†	-15.1	-0.0038 mg/L		0.00129	-0.0038 mg/L	0.00129	33.61%
B 208.889†	725.8	0.0402 mg/L		0.00039	0.0402 mg/L	0.00039	0.98%
Ba 233.527†	2497.7	0.0151 mg/L		0.00010	0.0151 mg/L	0.00010	0.67%
Be 313.107†	-56.4	-0.0002 mg/L		0.00004	-0.0002 mg/L	0.00004	26.18%
Ca 317.933†	189879.5	28.89 mg/L		0.155	28.89 mg/L	0.155	0.54%
Cd 228.802†	34.0	0.0004 mg/L		0.00007	0.0004 mg/L	0.00007	17.08%
Co 228.616†	42.9	0.0004 mg/L		0.00005	0.0004 mg/L	0.00005	11.56%
Cr 267.716†	173.9	0.0013 mg/L		0.00011	0.0013 mg/L	0.00011	8.73%
Cu 327.393†	-329.0	-0.0019 mg/L		0.00021	-0.0019 mg/L	0.00021	11.06%
Fe 238.204†	1948.2	0.8686 mg/L		0.01469	0.8686 mg/L	0.01469	1.69%
K 766.490†	12378.6	4.043 mg/L		0.0074	4.043 mg/L	0.0074	0.18%
Mg 285.213†	41945.1	5.221 mg/L		0.0854	5.221 mg/L	0.0854	1.64%
Mn 257.610†	3083.8	0.1304 mg/L		0.00220	0.1304 mg/L	0.00220	1.69%
Mo 202.031†	37.6	0.0015 mg/L		0.00012	0.0015 mg/L	0.00012	7.50%
Na 589.592†	368056.9	35.12 mg/L		0.122	35.12 mg/L	0.122	0.35%
Ni 231.604†	60.2	0.0015 mg/L		0.00020	0.0015 mg/L	0.00020	12.71%
Pb 220.353†	6.4	0.0005 mg/L		0.00086	0.0005 mg/L	0.00086	171.01%
Sb 206.836†	18.5	0.0029 mg/L		0.00024	0.0029 mg/L	0.00024	8.10%
Se 196.026†	10.4	0.0014 mg/L		0.00098	0.0014 mg/L	0.00098	68.92%
Sn 189.927†	-221.4	-0.0265 mg/L		0.00059	-0.0265 mg/L	0.00059	2.22%
Ti 337.279†	23.4	0.0013 mg/L		0.00047	0.0013 mg/L	0.00047	35.50%
Tl 351.924†	-22.5	-0.0015 mg/L		0.00412	-0.0015 mg/L	0.00412	283.74%
V 290.880†	1521.4	0.0072 mg/L		0.00026	0.0072 mg/L	0.00026	3.57%
Zn 206.200†	243.4	0.0004 mg/L		0.00004	0.0004 mg/L	0.00004	11.63%
Zr 343.823†	197.2	0.0004 mg/L		0.00001	0.0004 mg/L	0.00001	2.89%

Sequence No.: 59

Sample ID: 24D0735-10

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 75

Date Collected: 4/18/2024 4:30:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-10

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4897848.5	96.89 %		0.932			0.96%
Y radial	171359.1	97.81 %		0.914			0.93%
Ag 328.068†	733.9	0.0026 mg/L		0.00019	0.0026 mg/L	0.00019	7.39%
Al 396.153†	48.7	0.0130 mg/L		0.00363	0.0130 mg/L	0.00363	27.84%
As 188.979†	-6.5	-0.0019 mg/L		0.00106	-0.0019 mg/L	0.00106	55.51%
B 208.889†	239.0	0.0132 mg/L		0.00031	0.0132 mg/L	0.00031	2.33%
Ba 233.527†	1501.6	0.0092 mg/L		0.00008	0.0092 mg/L	0.00008	0.92%
Be 313.107†	-70.0	-0.0002 mg/L		0.00002	-0.0002 mg/L	0.00002	8.45%
Ca 317.933†	38835.3	5.908 mg/L		0.0335	5.908 mg/L	0.0335	0.57%
Cd 228.802†	65.6	0.0006 mg/L		0.00006	0.0006 mg/L	0.00006	9.14%
Co 228.616†	28.4	0.0003 mg/L		0.00008	0.0003 mg/L	0.00008	27.40%
Cr 267.716†	77.9	0.0006 mg/L		0.00007	0.0006 mg/L	0.00007	11.42%

Cu 327.393†	890.9	0.0052 mg/L	0.00023	0.0052 mg/L	0.00023	4.41%
Fe 238.204†	44.7	0.0199 mg/L	0.00082	0.0199 mg/L	0.00082	4.11%
K 766.490†	1862.7	0.6084 mg/L	0.00795	0.6084 mg/L	0.00795	1.31%
Mg 285.213†	7188.4	0.8943 mg/L	0.00429	0.8943 mg/L	0.00429	0.48%
Mn 257.610†	73.1	0.0031 mg/L	0.00014	0.0031 mg/L	0.00014	4.68%
Mo 202.031†	26.5	0.0011 mg/L	0.00021	0.0011 mg/L	0.00021	19.25%
Na 589.592†	97854.9	9.338 mg/L	0.0922	9.338 mg/L	0.0922	0.99%
Ni 231.604†	63.2	0.0016 mg/L	0.00012	0.0016 mg/L	0.00012	7.59%
Pb 220.353†	-3.2	-0.0003 mg/L	0.00027	-0.0003 mg/L	0.00027	102.40%
Sb 206.836†	4.0	0.0006 mg/L	0.00067	0.0006 mg/L	0.00067	109.19%
Se 196.026†	4.4	0.0015 mg/L	0.00367	0.0015 mg/L	0.00367	240.09%
Sn 189.927†	-68.4	-0.0082 mg/L	0.00023	-0.0082 mg/L	0.00023	2.83%
Ti 337.279†	4.6	0.0003 mg/L	0.00026	0.0003 mg/L	0.00026	101.53%
Tl 351.924†	28.5	0.0025 mg/L	0.00747	0.0025 mg/L	0.00747	298.84%
V 290.880†	985.5	0.0047 mg/L	0.00042	0.0047 mg/L	0.00042	8.97%
Zn 206.200†	2648.2	0.0362 mg/L	0.00026	0.0362 mg/L	0.00026	0.73%
Zr 343.823†	-1.7	-0.0000 mg/L	0.00013	-0.0000 mg/L	0.00013	>999.9%

Sequence No.: 60
Sample ID: 24D0735-11
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 76
Date Collected: 4/18/2024 4:36:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4778595.1	94.53	%	0.912			0.96%
Y radial	172701.5	98.58	%	0.441			0.45%
Ag 328.068†	714.5	0.0025	mg/L	0.00026	0.0025 mg/L	0.00026	10.22%
Al 396.153†	64.7	0.0173	mg/L	0.00413	0.0173 mg/L	0.00413	23.86%
As 188.979†	-11.0	-0.0030	mg/L	0.00092	-0.0030 mg/L	0.00092	30.38%
B 208.889†	602.3	0.0333	mg/L	0.00029	0.0333 mg/L	0.00029	0.86%
Ba 233.527†	2271.1	0.0138	mg/L	0.00006	0.0138 mg/L	0.00006	0.41%
Be 313.107†	-101.5	-0.0003	mg/L	0.00001	-0.0003 mg/L	0.00001	3.89%
Ca 317.933†	131046.3	19.94	mg/L	0.073	19.94 mg/L	0.073	0.37%
Cd 228.802†	15.2	0.0002	mg/L	0.00006	0.0002 mg/L	0.00006	29.84%
Co 228.616†	39.9	0.0004	mg/L	0.00012	0.0004 mg/L	0.00012	28.06%
Cr 267.716†	116.9	0.0009	mg/L	0.00003	0.0009 mg/L	0.00003	3.61%
Cu 327.393†	235.3	0.0014	mg/L	0.00003	0.0014 mg/L	0.00003	2.03%
Fe 238.204†	50.0	0.0223	mg/L	0.00023	0.0223 mg/L	0.00023	1.04%
K 766.490†	4556.0	1.488	mg/L	0.0117	1.488 mg/L	0.0117	0.79%
Mg 285.213†	48176.9	5.999	mg/L	0.0216	5.999 mg/L	0.0216	0.36%
Mn 257.610†	20.1	0.0009	mg/L	0.00025	0.0009 mg/L	0.00025	28.78%
Mo 202.031†	33.1	0.0014	mg/L	0.00023	0.0014 mg/L	0.00023	17.01%
Na 589.592†	123228.9	11.76	mg/L	0.047	11.76 mg/L	0.047	0.40%
Ni 231.604†	59.4	0.0015	mg/L	0.00008	0.0015 mg/L	0.00008	4.95%
Pb 220.353†	17.1	0.0014	mg/L	0.00039	0.0014 mg/L	0.00039	27.42%
Sb 206.836†	17.7	0.0028	mg/L	0.00057	0.0028 mg/L	0.00057	20.68%
Se 196.026†	9.2	0.0016	mg/L	0.00316	0.0016 mg/L	0.00316	203.49%
Sn 189.927†	-178.8	-0.0214	mg/L	0.00079	-0.0214 mg/L	0.00079	3.71%
Ti 337.279†	6.2	0.0003	mg/L	0.00014	0.0003 mg/L	0.00014	40.45%
Tl 351.924†	-19.9	-0.0018	mg/L	0.00592	-0.0018 mg/L	0.00592	337.85%
V 290.880†	871.5	0.0041	mg/L	0.00070	0.0041 mg/L	0.00070	16.87%
Zn 206.200†	524.8	0.0063	mg/L	0.00012	0.0063 mg/L	0.00012	1.94%
Zr 343.823†	117.2	0.0003	mg/L	0.00018	0.0003 mg/L	0.00018	66.97%

Sequence No.: 61
Sample ID: 24D0735-12
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 77
Date Collected: 4/18/2024 4:41:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-12

Analyte	Mean	Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD	
	Intensity	Conc.	Units		Conc.			Units
Y axial	4696391.4	92.91	%	1.001			1.08%	
Y radial	169355.6	96.67	%	0.704			0.73%	
Ag 328.068†	651.1	0.0023	mg/L	0.00021	0.0023	mg/L	0.00021	8.93%
Al 396.153†	58.7	0.0159	mg/L	0.00068	0.0159	mg/L	0.00068	4.31%
As 188.979†	-11.6	-0.0027	mg/L	0.00203	-0.0027	mg/L	0.00203	74.79%
B 208.889†	727.2	0.0403	mg/L	0.00070	0.0403	mg/L	0.00070	1.73%
Ba 233.527†	6687.8	0.0405	mg/L	0.00039	0.0405	mg/L	0.00039	0.96%
Be 313.107†	5.3	-0.0000	mg/L	0.00004	-0.0000	mg/L	0.00004	181.39%
Ca 317.933†	83048.0	12.63	mg/L	0.082	12.63	mg/L	0.082	0.65%
Cd 228.802†	27.1	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	24.72%
Co 228.616†	119.8	0.0012	mg/L	0.00008	0.0012	mg/L	0.00008	6.93%
Cr 267.716†	78.2	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	16.21%
Cu 327.393†	-404.4	-0.0024	mg/L	0.00028	-0.0024	mg/L	0.00028	11.92%
Fe 238.204†	4816.8	2.147	mg/L	0.0124	2.147	mg/L	0.0124	0.58%
K 766.490†	4397.7	1.436	mg/L	0.0133	1.436	mg/L	0.0133	0.93%
Mg 285.213†	43343.8	5.401	mg/L	0.0340	5.401	mg/L	0.0340	0.63%
Mn 257.610†	3063.5	0.1296	mg/L	0.00054	0.1296	mg/L	0.00054	0.42%
Mo 202.031†	5.2	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	57.28%
Na 589.592†	377794.8	36.05	mg/L	0.212	36.05	mg/L	0.212	0.59%
Ni 231.604†	60.8	0.0016	mg/L	0.00017	0.0016	mg/L	0.00017	10.76%
Pb 220.353†	-1.2	-0.0002	mg/L	0.00100	-0.0002	mg/L	0.00100	620.75%
Sb 206.836†	10.0	0.0017	mg/L	0.00063	0.0017	mg/L	0.00063	38.20%
Se 196.026†	5.3	0.0004	mg/L	0.00189	0.0004	mg/L	0.00189	432.73%
Sn 189.927†	-136.8	-0.0163	mg/L	0.00059	-0.0163	mg/L	0.00059	3.60%
Ti 337.279†	3.9	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	97.41%
Tl 351.924†	-23.1	-0.0007	mg/L	0.00631	-0.0007	mg/L	0.00631	944.39%
V 290.880†	1423.4	0.0066	mg/L	0.00078	0.0066	mg/L	0.00078	11.86%
Zn 206.200†	405.4	0.0024	mg/L	0.00003	0.0024	mg/L	0.00003	1.13%
Zr 343.823†	33.7	0.0000	mg/L	0.00022	0.0000	mg/L	0.00022	799.58%

Sequence No.: 62

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/18/2024 4:47:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEO-CCV@ 23J0975

Mean Corrected		Calib.	Sample			
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4745456.3	93.88 %	0.505			0.54%
Y radial	171022.4	97.62 %	1.728			1.77%
Ag 328.068†	620454.6	2.159 mg/L	0.0324	2.159 mg/L	0.0324	1.50%
QC value	less than the lower limit	for Ag 328.068	Recovery = 86.38%			
Al 396.153†	36595.3	9.565 mg/L	0.2114	9.565 mg/L	0.2114	2.21%
QC value	within limits	for Al 396.153	Recovery = 95.65%			
As 188.979†	15556.5	4.820 mg/L	0.0396	4.820 mg/L	0.0396	0.82%
QC value	within limits	for As 188.979	Recovery = 96.40%			
B 208.889†	85969.1	4.526 mg/L	0.0085	4.526 mg/L	0.0085	0.19%
QC value	within limits	for B 208.889	Recovery = 90.51%			
Ba 233.527†	798766.2	4.877 mg/L	0.0030	4.877 mg/L	0.0030	0.06%
QC value	within limits	for Ba 233.527	Recovery = 97.54%			
Be 313.107†	1956146.3	4.710 mg/L	0.0878	4.710 mg/L	0.0878	1.86%
QC value	within limits	for Be 313.107	Recovery = 94.21%			
Ca 317.933†	63235.2	9.620 mg/L	0.2090	9.620 mg/L	0.2090	2.17%
QC value	within limits	for Ca 317.933	Recovery = 96.20%			
Cd 228.802†	550795.1	4.890 mg/L	0.0039	4.890 mg/L	0.0039	0.08%
QC value	within limits	for Cd 228.802	Recovery = 97.79%			
Co 228.616†	477456.7	4.872 mg/L	0.0055	4.872 mg/L	0.0055	0.11%
QC value	within limits	for Co 228.616	Recovery = 97.44%			
Cr 267.716†	617250.5	4.848 mg/L	0.0011	4.848 mg/L	0.0011	0.02%
QC value	within limits	for Cr 267.716	Recovery = 96.95%			
Cu 327.393†	807079.6	4.737 mg/L	0.0031	4.737 mg/L	0.0031	0.06%
QC value	within limits	for Cu 327.393	Recovery = 94.73%			
Fe 238.204†	10453.6	4.686 mg/L	0.1015	4.686 mg/L	0.1015	2.17%
QC value	within limits	for Fe 238.204	Recovery = 93.72%			

K 766.490†	28909.7	9.442 mg/L	0.2056	9.442 mg/L	0.2056	2.18%
QC value within limits for K 766.490 Recovery = 94.42%						
Mg 285.213†	77284.8	9.609 mg/L	0.1987	9.609 mg/L	0.1987	2.07%
QC value within limits for Mg 285.213 Recovery = 96.09%						
Mn 257.610†	112076.0	4.736 mg/L	0.0999	4.736 mg/L	0.0999	2.11%
QC value within limits for Mn 257.610 Recovery = 94.72%						
Mo 202.031†	117708.2	4.825 mg/L	0.0006	4.825 mg/L	0.0006	0.01%
QC value within limits for Mo 202.031 Recovery = 96.50%						
Na 589.592†	98274.2	9.378 mg/L	0.1801	9.378 mg/L	0.1801	1.92%
QC value within limits for Na 589.592 Recovery = 93.78%						
Ni 231.604†	188683.2	4.850 mg/L	0.0035	4.850 mg/L	0.0035	0.07%
QC value within limits for Ni 231.604 Recovery = 97.00%						
Pb 220.353†	59199.9	4.882 mg/L	0.0683	4.882 mg/L	0.0683	1.40%
QC value within limits for Pb 220.353 Recovery = 97.64%						
Sb 206.836†	29671.6	4.816 mg/L	0.0675	4.816 mg/L	0.0675	1.40%
QC value within limits for Sb 206.836 Recovery = 96.32%						
Se 196.026†	9398.8	4.908 mg/L	0.0577	4.908 mg/L	0.0577	1.18%
QC value within limits for Se 196.026 Recovery = 98.16%						
Sn 189.927†	40927.9	4.887 mg/L	0.0717	4.887 mg/L	0.0717	1.47%
QC value within limits for Sn 189.927 Recovery = 97.75%						
Ti 337.279†	84995.4	4.751 mg/L	0.0983	4.751 mg/L	0.0983	2.07%
QC value within limits for Ti 337.279 Recovery = 95.02%						
Tl 351.924†	27744.4	2.398 mg/L	0.0358	2.398 mg/L	0.0358	1.49%
QC value within limits for Tl 351.924 Recovery = 95.91%						
V 290.880†	1042774.3	4.949 mg/L	0.0024	4.949 mg/L	0.0024	0.05%
QC value within limits for V 290.880 Recovery = 98.98%						
Zn 206.200†	350359.7	4.928 mg/L	0.0016	4.928 mg/L	0.0016	0.03%
QC value within limits for Zn 206.200 Recovery = 98.55%						
Zr 343.823†	2085058.7	4.841 mg/L	0.0008	4.841 mg/L	0.0008	0.02%
QC Failed. Continue with analysis.						

Sequence No.: 63

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/18/2024 4:53:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4972424.0	98.37 %	0.704			0.72%
Y radial	176227.3	100.6 %	0.10			0.10%
Ag 328.068†	1090.5	0.0038 mg/L	0.00053	0.0038 mg/L	0.00053	13.70%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	17.5	0.0046 mg/L	0.00451	0.0046 mg/L	0.00451	97.33%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	2.4	0.0007 mg/L	0.00070	0.0007 mg/L	0.00070	96.07%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	178.3	0.0098 mg/L	0.00040	0.0098 mg/L	0.00040	4.04%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	23.4	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	19.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-71.0	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	7.98%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-8.5	-0.0013 mg/L	0.00233	-0.0013 mg/L	0.00233	181.30%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	15.3	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	24.60%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	22.8	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	50.95%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1.8	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	493.59%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-535.9	-0.0031 mg/L	0.00012	-0.0031 mg/L	0.00012	3.93%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	10.3	0.0046 mg/L	0.00059	0.0046 mg/L	0.00059	12.76%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	74.5	0.0243 mg/L	0.02222	0.0243 mg/L	0.02222	91.34%

QC value within limits for K 766.490 Recovery = Not calculated
Mg 285.213† -2.9 -0.0004 mg/L 0.00025 -0.0004 mg/L 0.00025 70.86%
QC value within limits for Mg 285.213 Recovery = Not calculated
Mn 257.610† 2.1 0.0001 mg/L 0.00015 0.0001 mg/L 0.00015 163.69%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 39.6 0.0016 mg/L 0.00002 0.0016 mg/L 0.00002 1.14%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† 1735.5 0.1656 mg/L 0.00536 0.1656 mg/L 0.00536 3.23%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -9.4 -0.0002 mg/L 0.00018 -0.0002 mg/L 0.00018 72.27%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 6.5 0.0005 mg/L 0.00033 0.0005 mg/L 0.00033 59.86%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 0.7 0.0001 mg/L 0.00076 0.0001 mg/L 0.00076 588.48%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 2.5 0.0013 mg/L 0.00303 0.0013 mg/L 0.00303 234.01%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 1.7 0.0002 mg/L 0.00017 0.0002 mg/L 0.00017 86.30%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† -2.1 -0.0001 mg/L 0.00006 -0.0001 mg/L 0.00006 48.30%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 37.8 0.0033 mg/L 0.00422 0.0033 mg/L 0.00422 127.21%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† 476.7 0.0023 mg/L 0.00077 0.0023 mg/L 0.00077 34.24%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 63.6 0.0009 mg/L 0.00010 0.0009 mg/L 0.00010 12.11%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -54.5 -0.0001 mg/L 0.00010 -0.0001 mg/L 0.00010 80.04%
All analyte(s) passed QC.

Sequence No.: 64
Sample ID: 24D0735-13
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 78
Date Collected: 4/18/2024 4:58:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24D0735-13

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4804701.8	95.05 %		0.837			0.88%
Y radial	170711.9	97.44 %		1.424			1.46%
Ag 328.068†	738.8	0.0026 mg/L		0.00014	0.0026 mg/L	0.00014	5.37%
Al 396.153†	5.5	0.0014 mg/L		0.00572	0.0014 mg/L	0.00572	395.57%
As 188.979†	-6.7	-0.0018 mg/L		0.00109	-0.0018 mg/L	0.00109	61.37%
B 208.889†	605.0	0.0335 mg/L		0.00032	0.0335 mg/L	0.00032	0.94%
Ba 233.527†	1408.2	0.0086 mg/L		0.00010	0.0086 mg/L	0.00010	1.19%
Be 313.107†	-48.2	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	8.84%
Ca 317.933†	105062.3	15.98 mg/L		0.172	15.98 mg/L	0.172	1.07%
Cd 228.802†	157.8	0.0015 mg/L		0.00014	0.0015 mg/L	0.00014	9.79%
Co 228.616†	43.5	0.0004 mg/L		0.00011	0.0004 mg/L	0.00011	25.32%
Cr 267.716†	504.9	0.0040 mg/L		0.00008	0.0040 mg/L	0.00008	1.95%
Cu 327.393†	-434.7	-0.0025 mg/L		0.00042	-0.0025 mg/L	0.00042	16.54%
Fe 238.204†	14.6	0.0065 mg/L		0.00068	0.0065 mg/L	0.00068	10.44%
K 766.490†	5859.7	1.914 mg/L		0.0333	1.914 mg/L	0.0333	1.74%
Mg 285.213†	13603.0	1.691 mg/L		0.0121	1.691 mg/L	0.0121	0.72%
Mn 257.610†	23.3	0.0010 mg/L		0.00023	0.0010 mg/L	0.00023	23.67%
Mo 202.031†	23.1	0.0009 mg/L		0.00014	0.0009 mg/L	0.00014	15.28%
Na 589.592†	104581.7	9.980 mg/L		0.0728	9.980 mg/L	0.0728	0.73%
Ni 231.604†	30.5	0.0008 mg/L		0.00014	0.0008 mg/L	0.00014	17.50%
Pb 220.353†	18.9	0.0016 mg/L		0.00036	0.0016 mg/L	0.00036	23.24%
Sb 206.836†	7.8	0.0011 mg/L		0.00030	0.0011 mg/L	0.00030	26.96%
Se 196.026†	7.9	0.0022 mg/L		0.00311	0.0022 mg/L	0.00311	144.14%
Sn 189.927†	-143.5	-0.0171 mg/L		0.00059	-0.0171 mg/L	0.00059	3.46%
Ti 337.279†	8.2	0.0005 mg/L		0.00049	0.0005 mg/L	0.00049	106.35%
Tl 351.924†	-25.0	-0.0022 mg/L		0.00617	-0.0022 mg/L	0.00617	278.13%
V 290.880†	991.2	0.0047 mg/L		0.00036	0.0047 mg/L	0.00036	7.65%
Zn 206.200†	128.0	0.0010 mg/L		0.00011	0.0010 mg/L	0.00011	11.20%

Zr 343.823† 48.0 0.0001 mg/L 0.00027 0.0001 mg/L 0.00027 246.31%

Sequence No.: 65

Sample ID: 24D0735-14

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 79

Date Collected: 4/18/2024 5:04:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-14

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4832389.0	95.60	%	0.620			0.65%
Y radial	174164.5	99.41	%	1.339			1.35%
Ag 328.068†	723.8	0.0026	mg/L	0.00060	0.0026 mg/L	0.00060	23.58%
Al 396.153†	-11.6	-0.0032	mg/L	0.00783	-0.0032 mg/L	0.00783	248.49%
As 188.979†	-10.1	-0.0028	mg/L	0.00196	-0.0028 mg/L	0.00196	69.97%
B 208.889†	279.9	0.0155	mg/L	0.00020	0.0155 mg/L	0.00020	1.27%
Ba 233.527†	748.3	0.0046	mg/L	0.00002	0.0046 mg/L	0.00002	0.50%
Be 313.107†	-100.3	-0.0003	mg/L	0.00002	-0.0003 mg/L	0.00002	8.23%
Ca 317.933†	106055.3	16.13	mg/L	0.040	16.13 mg/L	0.040	0.25%
Cd 228.802†	16.4	0.0002	mg/L	0.00014	0.0002 mg/L	0.00014	65.20%
Co 228.616†	32.5	0.0003	mg/L	0.00015	0.0003 mg/L	0.00015	45.56%
Cr 267.716†	177.4	0.0014	mg/L	0.00005	0.0014 mg/L	0.00005	3.30%
Cu 327.393†	-389.9	-0.0023	mg/L	0.00033	-0.0023 mg/L	0.00033	14.36%
Fe 238.204†	19.7	0.0088	mg/L	0.00063	0.0088 mg/L	0.00063	7.18%
K 766.490†	2165.6	0.7073	mg/L	0.00926	0.7073 mg/L	0.00926	1.31%
Mg 285.213†	13573.9	1.687	mg/L	0.0083	1.687 mg/L	0.0083	0.49%
Mn 257.610†	16.6	0.0007	mg/L	0.00017	0.0007 mg/L	0.00017	24.09%
Mo 202.031†	26.7	0.0011	mg/L	0.00005	0.0011 mg/L	0.00005	4.34%
Na 589.592†	51799.8	4.943	mg/L	0.0142	4.943 mg/L	0.0142	0.29%
Ni 231.604†	37.5	0.0010	mg/L	0.00002	0.0010 mg/L	0.00002	2.56%
Pb 220.353†	8.5	0.0007	mg/L	0.00035	0.0007 mg/L	0.00035	49.76%
Sb 206.836†	5.8	0.0008	mg/L	0.00191	0.0008 mg/L	0.00191	227.11%
Se 196.026†	0.9	-0.0015	mg/L	0.00103	-0.0015 mg/L	0.00103	67.77%
Sn 189.927†	-146.6	-0.0175	mg/L	0.00040	-0.0175 mg/L	0.00040	2.31%
Ti 337.279†	-7.3	-0.0004	mg/L	0.00037	-0.0004 mg/L	0.00037	91.75%
Tl 351.924†	45.2	0.0040	mg/L	0.00113	0.0040 mg/L	0.00113	28.51%
V 290.880†	846.0	0.0040	mg/L	0.00065	0.0040 mg/L	0.00065	16.16%
Zn 206.200†	186.4	0.0022	mg/L	0.00007	0.0022 mg/L	0.00007	3.11%
Zr 343.823†	25.9	0.0001	mg/L	0.00015	0.0001 mg/L	0.00015	246.07%

Sequence No.: 66

Sample ID: 24D0735-15

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 80

Date Collected: 4/18/2024 5:09:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4776490.6	94.49	%	0.502			0.53%
Y radial	172508.1	98.47	%	1.746			1.77%
Ag 328.068†	689.3	0.0024	mg/L	0.00019	0.0024 mg/L	0.00019	7.99%
Al 396.153†	19.8	0.0053	mg/L	0.00509	0.0053 mg/L	0.00509	96.64%
As 188.979†	-12.2	-0.0031	mg/L	0.00154	-0.0031 mg/L	0.00154	49.19%
B 208.889†	526.8	0.0291	mg/L	0.00031	0.0291 mg/L	0.00031	1.07%
Ba 233.527†	7241.4	0.0441	mg/L	0.00010	0.0441 mg/L	0.00010	0.22%
Be 313.107†	-77.3	-0.0002	mg/L	0.00005	-0.0002 mg/L	0.00005	26.03%
Ca 317.933†	211138.8	32.12	mg/L	0.316	32.12 mg/L	0.316	0.98%
Cd 228.802†	448.3	0.0041	mg/L	0.00002	0.0041 mg/L	0.00002	0.46%
Co 228.616†	48.7	0.0005	mg/L	0.00001	0.0005 mg/L	0.00001	2.17%
Cr 267.716†	145.0	0.0011	mg/L	0.00009	0.0011 mg/L	0.00009	7.68%
Cu 327.393†	-274.4	-0.0016	mg/L	0.00012	-0.0016 mg/L	0.00012	7.44%
Fe 238.204†	29.2	0.0130	mg/L	0.00043	0.0130 mg/L	0.00043	3.33%

K 766.490†	8695.6	2.840 mg/L	0.0731	2.840 mg/L	0.0731	2.57%
Mg 285.213†	33311.7	4.143 mg/L	0.0904	4.143 mg/L	0.0904	2.18%
Mn 257.610†	35.0	0.0015 mg/L	0.00012	0.0015 mg/L	0.00012	8.31%
Mo 202.031†	33.6	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	3.23%
Na 589.592†	532635.1	50.83 mg/L	0.379	50.83 mg/L	0.379	0.75%
Ni 231.604†	60.2	0.0015 mg/L	0.00029	0.0015 mg/L	0.00029	18.56%
Pb 220.353†	27.0	0.0022 mg/L	0.00062	0.0022 mg/L	0.00062	27.80%
Sb 206.836†	14.9	0.0023 mg/L	0.00145	0.0023 mg/L	0.00145	63.68%
Se 196.026†	10.2	0.0012 mg/L	0.00108	0.0012 mg/L	0.00108	89.53%
Sn 189.927†	-224.7	-0.0269 mg/L	0.00124	-0.0269 mg/L	0.00124	4.62%
Ti 337.279†	-1.4	-0.0001 mg/L	0.00032	-0.0001 mg/L	0.00032	426.78%
Tl 351.924†	10.7	0.0009 mg/L	0.00242	0.0009 mg/L	0.00242	261.27%
V 290.880†	861.2	0.0041 mg/L	0.00056	0.0041 mg/L	0.00056	13.69%
Zn 206.200†	355.5	0.0006 mg/L	0.00013	0.0006 mg/L	0.00013	19.99%
Zr 343.823†	119.0	0.0003 mg/L	0.00019	0.0003 mg/L	0.00019	68.28%

Sequence No.: 67

Sample ID: 24D0735-16

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 81

Date Collected: 4/18/2024 5:15:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-16

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4826650.5	95.48 %		0.685			0.72%
Y radial	174099.9	99.37 %		0.963			0.97%
Ag 328.068†	745.2	0.0025 mg/L		0.00016	0.0025 mg/L	0.00016	6.47%
Al 396.153†	32.0	0.0086 mg/L		0.00656	0.0086 mg/L	0.00656	76.66%
As 188.979†	-9.9	-0.0027 mg/L		0.00120	-0.0027 mg/L	0.00120	44.41%
B 208.889†	614.3	0.0340 mg/L		0.00038	0.0340 mg/L	0.00038	1.11%
Ba 233.527†	3752.2	0.0229 mg/L		0.00018	0.0229 mg/L	0.00018	0.77%
Be 313.107†	-101.6	-0.0003 mg/L		0.00003	-0.0003 mg/L	0.00003	10.30%
Ca 317.933†	124856.3	18.99 mg/L		0.057	18.99 mg/L	0.057	0.30%
Cd 228.802†	570.3	0.0052 mg/L		0.00010	0.0052 mg/L	0.00010	1.92%
Co 228.616†	419.7	0.0043 mg/L		0.00004	0.0043 mg/L	0.00004	0.84%
Cr 267.716†	273.9	0.0019 mg/L		0.00007	0.0019 mg/L	0.00007	3.55%
Cu 327.393†	-272.3	-0.0016 mg/L		0.00007	-0.0016 mg/L	0.00007	4.43%
Fe 238.204†	94.1	0.0420 mg/L		0.00176	0.0420 mg/L	0.00176	4.20%
K 766.490†	5876.2	1.919 mg/L		0.0314	1.919 mg/L	0.0314	1.64%
Mg 285.213†	21838.1	2.717 mg/L		0.0409	2.717 mg/L	0.0409	1.51%
Mn 257.610†	11828.0	0.4998 mg/L		0.00674	0.4998 mg/L	0.00674	1.35%
Mo 202.031†	17.1	0.0007 mg/L		0.00007	0.0007 mg/L	0.00007	9.34%
Na 589.592†	290992.7	27.77 mg/L		0.034	27.77 mg/L	0.034	0.12%
Ni 231.604†	86.5	0.0022 mg/L		0.00010	0.0022 mg/L	0.00010	4.34%
Pb 220.353†	11.7	0.0009 mg/L		0.00070	0.0009 mg/L	0.00070	75.86%
Sb 206.836†	7.1	0.0010 mg/L		0.00068	0.0010 mg/L	0.00068	65.80%
Se 196.026†	1.9	-0.0016 mg/L		0.00306	-0.0016 mg/L	0.00306	186.77%
Sn 189.927†	-167.2	-0.0200 mg/L		0.00037	-0.0200 mg/L	0.00037	1.86%
Ti 337.279†	-10.8	-0.0006 mg/L		0.00011	-0.0006 mg/L	0.00011	17.64%
Tl 351.924†	5.8	0.0005 mg/L		0.00921	0.0005 mg/L	0.00921	>999.9%
V 290.880†	1294.8	0.0061 mg/L		0.00057	0.0061 mg/L	0.00057	9.25%
Zn 206.200†	3095.4	0.0409 mg/L		0.00026	0.0409 mg/L	0.00026	0.64%
Zr 343.823†	89.7	0.0002 mg/L		0.00014	0.0002 mg/L	0.00014	67.18%

Sequence No.: 68

Sample ID: 24D0735-17

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 82

Date Collected: 4/18/2024 5:21:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0735-17

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD

Y axial	4712892.0	93.23 %	0.717			0.77%
Y radial	170411.8	97.27 %	0.681			0.70%
Ag 328.068†	644.8	0.0023 mg/L	0.00003	0.0023 mg/L	0.00003	1.40%
Al 396.153†	16.2	0.0043 mg/L	0.00226	0.0043 mg/L	0.00226	52.32%
As 188.979†	-15.4	-0.0041 mg/L	0.00151	-0.0041 mg/L	0.00151	37.06%
B 208.889†	589.6	0.0327 mg/L	0.00017	0.0327 mg/L	0.00017	0.52%
Ba 233.527†	5418.9	0.0330 mg/L	0.00025	0.0330 mg/L	0.00025	0.76%
Be 313.107†	-73.1	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	13.65%
Ca 317.933†	218561.0	33.25 mg/L	0.535	33.25 mg/L	0.535	1.61%
Cd 228.802†	53991.2	0.4880 mg/L	0.00186	0.4880 mg/L	0.00186	0.38%
Co 228.616†	136.6	0.0014 mg/L	0.00003	0.0014 mg/L	0.00003	2.06%
Cr 267.716†	129.0	0.0011 mg/L	0.00007	0.0011 mg/L	0.00007	6.40%
Cu 327.393†	-110.6	-0.0006 mg/L	0.00027	-0.0006 mg/L	0.00027	41.98%
Fe 238.204†	221.3	0.0987 mg/L	0.00061	0.0987 mg/L	0.00061	0.61%
K 766.490†	11179.4	3.651 mg/L	0.0112	3.651 mg/L	0.0112	0.31%
Mg 285.213†	40701.7	5.064 mg/L	0.0113	5.064 mg/L	0.0113	0.22%
Mn 257.610†	1043.5	0.0441 mg/L	0.00027	0.0441 mg/L	0.00027	0.61%
Mo 202.031†	24.5	0.0010 mg/L	0.00002	0.0010 mg/L	0.00002	1.74%
Na 589.592†	612451.4	58.45 mg/L	1.164	58.45 mg/L	1.164	1.99%
Ni 231.604†	105.3	0.0027 mg/L	0.00016	0.0027 mg/L	0.00016	5.81%
Pb 220.353†	8.3	0.0007 mg/L	0.00064	0.0007 mg/L	0.00064	94.81%
Sb 206.836†	21.7	0.0034 mg/L	0.00133	0.0034 mg/L	0.00133	39.11%
Se 196.026†	8.3	-0.0001 mg/L	0.00026	-0.0001 mg/L	0.00026	226.28%
Sn 189.927†	-239.2	-0.0286 mg/L	0.00084	-0.0286 mg/L	0.00084	2.92%
Ti 337.279†	2.5	0.0001 mg/L	0.00022	0.0001 mg/L	0.00022	156.89%
Tl 351.924†	-53.4	-0.0047 mg/L	0.00372	-0.0047 mg/L	0.00372	79.90%
V 290.880†	1084.9	0.0051 mg/L	0.00052	0.0051 mg/L	0.00052	10.02%
Zn 206.200†	1172.2	0.0114 mg/L	0.00004	0.0114 mg/L	0.00004	0.36%
Zr 343.823†	132.9	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016	50.70%

User canceled analysis.

=====
Analysis Begun

Start Time: 4/18/2024 5:34:02 PM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/18/2024 5:34:03 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====
Analysis Begun

Start Time: 4/18/2024 5:34:24 PM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 69

Autosampler Location: 7

Sample ID: RINSE

Date Collected: 4/18/2024 5:34:25 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====
Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4957239.7	98.07 %	0.409			0.42%
Y radial	173710.2	99.15 %	2.235			2.25%
Ag 328.068†	753.0	0.0027 mg/L	0.00033	0.0027 mg/L	0.00033	12.35%
Al 396.153†	6.2	0.0017 mg/L	0.00375	0.0017 mg/L	0.00375	226.52%
As 188.979†	-0.5	-0.0002 mg/L	0.00124	-0.0002 mg/L	0.00124	737.63%
B 208.889†	49.8	0.0027 mg/L	0.00020	0.0027 mg/L	0.00020	7.12%
Ba 233.527†	34.9	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	14.38%
Be 313.107†	-66.9	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	16.11%
Ca 317.933†	30.5	0.0046 mg/L	0.00318	0.0046 mg/L	0.00318	68.67%
Cd 228.802†	8.2	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	98.57%
Co 228.616†	12.3	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	37.06%
Cr 267.716†	-0.9	-0.0000 mg/L	0.00006	-0.0000 mg/L	0.00006	>999.9%
Cu 327.393†	-646.6	-0.0038 mg/L	0.00018	-0.0038 mg/L	0.00018	4.71%
Fe 238.204†	9.2	0.0041 mg/L	0.00137	0.0041 mg/L	0.00137	33.43%
K 766.490†	98.1	0.0321 mg/L	0.01207	0.0321 mg/L	0.01207	37.65%
Mg 285.213†	8.3	0.0010 mg/L	0.00051	0.0010 mg/L	0.00051	49.17%
Mn 257.610†	0.2	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	>999.9%
Mo 202.031†	8.0	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	33.04%
Na 589.592†	1448.4	0.1382 mg/L	0.00966	0.1382 mg/L	0.00966	6.99%
Ni 231.604†	-4.7	-0.0001 mg/L	0.00020	-0.0001 mg/L	0.00020	168.32%
Pb 220.353†	-8.1	-0.0007 mg/L	0.00090	-0.0007 mg/L	0.00090	137.33%
Sb 206.836†	-0.8	-0.0001 mg/L	0.00070	-0.0001 mg/L	0.00070	587.27%
Se 196.026†	-1.6	-0.0008 mg/L	0.00310	-0.0008 mg/L	0.00310	381.58%
Sn 189.927†	-1.7	-0.0002 mg/L	0.00026	-0.0002 mg/L	0.00026	132.07%

Ti 337.279†	3.3	0.0002 mg/L	0.00038	0.0002 mg/L	0.00038	206.67%
Tl 351.924†	1.5	0.0001 mg/L	0.00491	0.0001 mg/L	0.00491	>999.9%
V 290.880†	570.2	0.0027 mg/L	0.00045	0.0027 mg/L	0.00045	16.45%
Zn 206.200†	30.3	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	17.83%
Zr 343.823†	-113.1	-0.0003 mg/L	0.00004	-0.0003 mg/L	0.00004	15.06%

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 5:39:47 PM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: SEQ-ICV@ 23K0257

Date Collected: 4/18/2024 5:39:47 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

User canceled analysis.

=====

Analysis Begun

Start Time: 4/18/2024 5:40:26 PM

Plasma On Time: 4/18/2024 8:09:18 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer: Optima 4300 DV, S/N 077N0022803

Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0418A24.sif

Batch ID: Optima 2

Results Data Set: 0418A24

Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

=====

Sequence No.: 70

Autosampler Location: 83

Sample ID: B371420-MS1@10X

Date Collected: 4/18/2024 5:40:26 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time:

=====

Mean Data: B371420-MS1@10X

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD	
	Intensity	Conc.			Conc.	Units		Std.Dev.
Y axial	4888190.2	96.70	%	1.004			1.04%	
Y radial	174297.7	99.49	%	0.833			0.84%	
Ag 328.068†	15774.9	0.0558	mg/L	0.00102	0.0558	mg/L	0.00102	1.83%
Al 396.153†	15418.3	4.137	mg/L	0.0634	4.137	mg/L	0.0634	1.53%
As 188.979†	140.2	0.0482	mg/L	0.00121	0.0482	mg/L	0.00121	2.51%
B 208.889†	1734.0	0.0936	mg/L	0.00117	0.0936	mg/L	0.00117	1.25%
Ba 233.527†	12712.6	0.0763	mg/L	0.00143	0.0763	mg/L	0.00143	1.87%
Be 313.107†	21321.6	0.0513	mg/L	0.00087	0.0513	mg/L	0.00087	1.70%
Ca 317.933†	5356.3	0.8148	mg/L	0.01583	0.8148	mg/L	0.01583	1.94%
Cd 228.802†	5796.6	0.0517	mg/L	0.00125	0.0517	mg/L	0.00125	2.42%
Co 228.616†	5473.1	0.0554	mg/L	0.00058	0.0554	mg/L	0.00058	1.04%
Cr 267.716†	8493.2	0.0666	mg/L	0.00110	0.0666	mg/L	0.00110	1.65%
Cu 327.393†	18147.4	0.1061	mg/L	0.00185	0.1061	mg/L	0.00185	1.74%
Fe 238.204†	22622.8	10.09	mg/L	0.142	10.09	mg/L	0.142	1.41%
K 766.490†	2787.5	0.9104	mg/L	0.01129	0.9104	mg/L	0.01129	1.24%
Mg 285.213†	12468.6	1.562	mg/L	0.0193	1.562	mg/L	0.0193	1.23%
Mn 257.610†	7329.6	0.3105	mg/L	0.00472	0.3105	mg/L	0.00472	1.52%
Mo 202.031†	1227.0	0.0503	mg/L	0.00030	0.0503	mg/L	0.00030	0.60%
Na 589.592†	5813.6	0.5548	mg/L	0.01493	0.5548	mg/L	0.01493	2.69%
Ni 231.604†	2269.3	0.0583	mg/L	0.00046	0.0583	mg/L	0.00046	0.79%
Pb 220.353†	677.9	0.0559	mg/L	0.00106	0.0559	mg/L	0.00106	1.89%
Sb 206.836†	207.4	0.0337	mg/L	0.00067	0.0337	mg/L	0.00067	1.98%
Se 196.026†	93.3	0.0486	mg/L	0.00134	0.0486	mg/L	0.00134	2.75%
Sn 189.927†	435.0	0.0520	mg/L	0.00046	0.0520	mg/L	0.00046	0.88%

Ti 337.279†	4226.5	0.2364 mg/L	0.00465	0.2364 mg/L	0.00465	1.97%
Tl 351.924†	559.4	0.0546 mg/L	0.00373	0.0546 mg/L	0.00373	6.83%
V 290.880†	14147.8	0.0665 mg/L	0.00151	0.0665 mg/L	0.00151	2.28%
Zn 206.200†	8574.7	0.1194 mg/L	0.00176	0.1194 mg/L	0.00176	1.47%
Zr 343.823†	1506.5	0.0033 mg/L	0.00013	0.0033 mg/L	0.00013	4.06%

Sequence No.: 71

Sample ID: B371420-MSD1@10X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 84

Date Collected: 4/18/2024 5:45:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371420-MSD1@10X

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4906333.7	97.06 %		1.200			1.24%
Y radial	174122.7	99.39 %		1.362			1.37%
Ag 328.068†	16015.6	0.0567 mg/L		0.00041	0.0567 mg/L	0.00041	0.73%
Al 396.153†	16335.4	4.383 mg/L		0.0580	4.383 mg/L	0.0580	1.32%
As 188.979†	144.2	0.0497 mg/L		0.00070	0.0497 mg/L	0.00070	1.42%
B 208.889†	1746.5	0.0943 mg/L		0.00142	0.0943 mg/L	0.00142	1.50%
Ba 233.527†	13055.2	0.0782 mg/L		0.00085	0.0782 mg/L	0.00085	1.08%
Be 313.107†	21374.1	0.0514 mg/L		0.00051	0.0514 mg/L	0.00051	0.99%
Ca 317.933†	5435.4	0.8269 mg/L		0.00686	0.8269 mg/L	0.00686	0.83%
Cd 228.802†	5922.3	0.0528 mg/L		0.00036	0.0528 mg/L	0.00036	0.68%
Co 228.616†	5458.6	0.0553 mg/L		0.00084	0.0553 mg/L	0.00084	1.52%
Cr 267.716†	8585.1	0.0673 mg/L		0.00072	0.0673 mg/L	0.00072	1.07%
Cu 327.393†	18594.9	0.1087 mg/L		0.00111	0.1087 mg/L	0.00111	1.02%
Fe 238.204†	24523.0	10.93 mg/L		0.102	10.93 mg/L	0.102	0.93%
K 766.490†	2962.0	0.9674 mg/L		0.02267	0.9674 mg/L	0.02267	2.34%
Mg 285.213†	13255.9	1.661 mg/L		0.0177	1.661 mg/L	0.0177	1.07%
Mn 257.610†	7184.9	0.3044 mg/L		0.00251	0.3044 mg/L	0.00251	0.83%
Mo 202.031†	1264.1	0.0518 mg/L		0.00121	0.0518 mg/L	0.00121	2.33%
Na 589.592†	5472.7	0.5223 mg/L		0.01301	0.5223 mg/L	0.01301	2.49%
Ni 231.604†	2241.4	0.0576 mg/L		0.00108	0.0576 mg/L	0.00108	1.87%
Pb 220.353†	677.3	0.0559 mg/L		0.00161	0.0559 mg/L	0.00161	2.88%
Sb 206.836†	222.1	0.0361 mg/L		0.00040	0.0361 mg/L	0.00040	1.10%
Se 196.026†	93.7	0.0488 mg/L		0.00387	0.0488 mg/L	0.00387	7.93%
Sn 189.927†	438.8	0.0524 mg/L		0.00127	0.0524 mg/L	0.00127	2.42%
Ti 337.279†	4293.6	0.2401 mg/L		0.00208	0.2401 mg/L	0.00208	0.87%
Tl 351.924†	474.9	0.0477 mg/L		0.00173	0.0477 mg/L	0.00173	3.63%
V 290.880†	14409.7	0.0677 mg/L		0.00106	0.0677 mg/L	0.00106	1.56%
Zn 206.200†	8735.8	0.1216 mg/L		0.00158	0.1216 mg/L	0.00158	1.30%
Zr 343.823†	1320.7	0.0028 mg/L		0.00013	0.0028 mg/L	0.00013	4.60%

Sequence No.: 72

Sample ID: 24D0348-15@10X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 85

Date Collected: 4/18/2024 5:49:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0348-15@10X

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y axial	4894880.6	96.83 %		0.215			0.22%
Y radial	173140.0	98.83 %		0.660			0.67%
Ag 328.068†	472.5	0.0019 mg/L		0.00025	0.0019 mg/L	0.00025	13.30%
Al 396.153†	16610.9	4.459 mg/L		0.0487	4.459 mg/L	0.0487	1.09%
As 188.979†	-11.1	0.0023 mg/L		0.00125	0.0023 mg/L	0.00125	55.31%
B 208.889†	50.6	0.0028 mg/L		0.00043	0.0028 mg/L	0.00043	15.46%
Ba 233.527†	5022.6	0.0290 mg/L		0.00002	0.0290 mg/L	0.00002	0.08%
Be 313.107†	74.8	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	16.72%
Ca 317.933†	3634.4	0.5529 mg/L		0.00768	0.5529 mg/L	0.00768	1.39%
Cd 228.802†	16.1	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	16.25%

Co 228.616†	393.3	0.0035 mg/L	0.00003	0.0035 mg/L	0.00003	0.88%
Cr 267.716†	2515.0	0.0196 mg/L	0.00009	0.0196 mg/L	0.00009	0.46%
Cu 327.393†	1239.3	0.0073 mg/L	0.00008	0.0073 mg/L	0.00008	1.07%
Fe 238.204†	27450.6	12.24 mg/L	0.124	12.24 mg/L	0.124	1.01%
K 766.490†	1727.6	0.5643 mg/L	0.00140	0.5643 mg/L	0.00140	0.25%
Mg 285.213†	10827.5	1.359 mg/L	0.0136	1.359 mg/L	0.0136	1.00%
Mn 257.610†	7095.3	0.3007 mg/L	0.00338	0.3007 mg/L	0.00338	1.13%
Mo 202.031†	22.7	0.0009 mg/L	0.00022	0.0009 mg/L	0.00022	23.16%
Na 589.592†	1596.6	0.1524 mg/L	0.00243	0.1524 mg/L	0.00243	1.60%
Ni 231.604†	305.7	0.0079 mg/L	0.00034	0.0079 mg/L	0.00034	4.38%
Pb 220.353†	50.1	0.0042 mg/L	0.00079	0.0042 mg/L	0.00079	18.64%
Sb 206.836†	1.8	0.0005 mg/L	0.00125	0.0005 mg/L	0.00125	231.33%
Se 196.026†	-1.3	-0.0007 mg/L	0.00109	-0.0007 mg/L	0.00109	164.03%
Sn 189.927†	15.2	0.0018 mg/L	0.00073	0.0018 mg/L	0.00073	40.50%
Ti 337.279†	3838.8	0.2147 mg/L	0.00309	0.2147 mg/L	0.00309	1.44%
Tl 351.924†	-61.6	0.0017 mg/L	0.00309	0.0017 mg/L	0.00309	178.64%
V 290.880†	3623.9	0.0164 mg/L	0.00009	0.0164 mg/L	0.00009	0.52%
Zn 206.200†	1439.6	0.0194 mg/L	0.00001	0.0194 mg/L	0.00001	0.06%
Zr 343.823†	1245.3	0.0026 mg/L	0.00008	0.0026 mg/L	0.00008	3.12%

Sequence No.: 73

Sample ID: 24D0348-02@10X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 86

Date Collected: 4/18/2024 5:55:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0348-02@10X

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5012324.9	99.16 %		0.437			0.44%
Y radial	175241.7	100.0 %		1.78			1.78%
Ag 328.068†	364.6	0.0017 mg/L		0.00036	0.0017 mg/L	0.00036	20.80%
Al 396.153†	32567.5	8.742 mg/L		0.0731	8.742 mg/L	0.0731	0.84%
As 188.979†	0.1	0.0097 mg/L		0.00282	0.0097 mg/L	0.00282	29.16%
B 208.889†	46.9	0.0024 mg/L		0.00052	0.0024 mg/L	0.00052	21.94%
Ba 233.527†	6478.7	0.0370 mg/L		0.00031	0.0370 mg/L	0.00031	0.85%
Be 313.107†	153.2	0.0002 mg/L		0.00006	0.0002 mg/L	0.00006	39.71%
Ca 317.933†	5838.1	0.8881 mg/L		0.01741	0.8881 mg/L	0.01741	1.96%
Cd 228.802†	23.0	0.0004 mg/L		0.00009	0.0004 mg/L	0.00009	22.08%
Co 228.616†	692.5	0.0061 mg/L		0.00010	0.0061 mg/L	0.00010	1.65%
Cr 267.716†	11352.6	0.0889 mg/L		0.00063	0.0889 mg/L	0.00063	0.71%
Cu 327.393†	2891.1	0.0169 mg/L		0.00024	0.0169 mg/L	0.00024	1.41%
Fe 238.204†	43507.0	19.40 mg/L		0.235	19.40 mg/L	0.235	1.21%
K 766.490†	3706.5	1.211 mg/L		0.0239	1.211 mg/L	0.0239	1.97%
Mg 285.213†	18741.5	2.351 mg/L		0.0387	2.351 mg/L	0.0387	1.64%
Mn 257.610†	10524.2	0.4462 mg/L		0.00735	0.4462 mg/L	0.00735	1.65%
Mo 202.031†	111.8	0.0046 mg/L		0.00027	0.0046 mg/L	0.00027	5.86%
Na 589.592†	1829.2	0.1746 mg/L		0.00672	0.1746 mg/L	0.00672	3.85%
Ni 231.604†	541.8	0.0139 mg/L		0.00032	0.0139 mg/L	0.00032	2.30%
Pb 220.353†	122.1	0.0104 mg/L		0.00081	0.0104 mg/L	0.00081	7.80%
Sb 206.836†	6.7	0.0004 mg/L		0.00067	0.0004 mg/L	0.00067	162.48%
Se 196.026†	3.1	0.0016 mg/L		0.00216	0.0016 mg/L	0.00216	135.46%
Sn 189.927†	6.1	0.0007 mg/L		0.00058	0.0007 mg/L	0.00058	79.65%
Ti 337.279†	7617.5	0.4261 mg/L		0.00784	0.4261 mg/L	0.00784	1.84%
Tl 351.924†	-108.3	0.0014 mg/L		0.00617	0.0014 mg/L	0.00617	430.06%
V 290.880†	9662.2	0.0446 mg/L		0.00031	0.0446 mg/L	0.00031	0.69%
Zn 206.200†	2166.5	0.0297 mg/L		0.00010	0.0297 mg/L	0.00010	0.34%
Zr 343.823†	2089.4	0.0044 mg/L		0.00007	0.0044 mg/L	0.00007	1.49%

Sequence No.: 74

Sample ID: 24D0348-04@10X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 87

Date Collected: 4/18/2024 6:00:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0348-04@10X

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4871028.4	96.36 %	0.551			0.57%
Y radial	173932.6	99.28 %	1.292			1.30%
Ag 328.068†	369.1	0.0018 mg/L	0.00016	0.0018 mg/L	0.00016	9.30%
Al 396.153†	20958.9	5.626 mg/L	0.0626	5.626 mg/L	0.0626	1.11%
As 188.979†	-19.7	0.0020 mg/L	0.00146	0.0020 mg/L	0.00146	74.50%
B 208.889†	37.7	0.0021 mg/L	0.00033	0.0021 mg/L	0.00033	16.08%
Ba 233.527†	6533.3	0.0372 mg/L	0.00025	0.0372 mg/L	0.00025	0.67%
Be 313.107†	154.0	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	12.12%
Ca 317.933†	3012.9	0.4584 mg/L	0.01036	0.4584 mg/L	0.01036	2.26%
Cd 228.802†	14.4	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	30.95%
Co 228.616†	367.8	0.0033 mg/L	0.00007	0.0033 mg/L	0.00007	2.29%
Cr 267.716†	7303.0	0.0573 mg/L	0.00021	0.0573 mg/L	0.00021	0.37%
Cu 327.393†	2927.9	0.0171 mg/L	0.00021	0.0171 mg/L	0.00021	1.25%
Fe 238.204†	45325.1	20.21 mg/L	0.146	20.21 mg/L	0.146	0.72%
K 766.490†	2227.9	0.7277 mg/L	0.01465	0.7277 mg/L	0.01465	2.01%
Mg 285.213†	11476.8	1.447 mg/L	0.0221	1.447 mg/L	0.0221	1.53%
Mn 257.610†	2259.4	0.0970 mg/L	0.00145	0.0970 mg/L	0.00145	1.50%
Mo 202.031†	14.5	0.0006 mg/L	0.00017	0.0006 mg/L	0.00017	28.62%
Na 589.592†	1444.9	0.1379 mg/L	0.00189	0.1379 mg/L	0.00189	1.37%
Ni 231.604†	307.3	0.0079 mg/L	0.00033	0.0079 mg/L	0.00033	4.19%
Pb 220.353†	103.0	0.0086 mg/L	0.00035	0.0086 mg/L	0.00035	4.10%
Sb 206.836†	1.2	0.0001 mg/L	0.00075	0.0001 mg/L	0.00075	765.16%
Se 196.026†	-5.0	-0.0023 mg/L	0.00152	-0.0023 mg/L	0.00152	66.23%
Sn 189.927†	14.8	0.0018 mg/L	0.00038	0.0018 mg/L	0.00038	21.83%
Ti 337.279†	4076.1	0.2280 mg/L	0.00382	0.2280 mg/L	0.00382	1.68%
Tl 351.924†	-44.3	0.0084 mg/L	0.00255	0.0084 mg/L	0.00255	30.41%
V 290.880†	4407.9	0.0195 mg/L	0.00028	0.0195 mg/L	0.00028	1.42%
Zn 206.200†	1797.5	0.0242 mg/L	0.00025	0.0242 mg/L	0.00025	1.01%
Zr 343.823†	1610.7	0.0033 mg/L	0.00006	0.0033 mg/L	0.00006	1.90%

Sequence No.: 75

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/18/2024 6:06:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4696922.4	92.92 %	0.910			0.98%
Y radial	169217.6	96.59 %	0.792			0.82%
Ag 328.068†	692905.1	2.414 mg/L	0.0082	2.414 mg/L	0.0082	0.34%
QC value within limits for Ag 328.068		Recovery = 96.58%				
Al 396.153†	36173.6	9.454 mg/L	0.0936	9.454 mg/L	0.0936	0.99%
QC value within limits for Al 396.153		Recovery = 94.54%				
As 188.979†	15391.8	4.769 mg/L	0.0424	4.769 mg/L	0.0424	0.89%
QC value within limits for As 188.979		Recovery = 95.37%				
B 208.889†	86832.0	4.575 mg/L	0.0144	4.575 mg/L	0.0144	0.32%
QC value within limits for B 208.889		Recovery = 91.49%				
Ba 233.527†	795439.5	4.856 mg/L	0.0177	4.856 mg/L	0.0177	0.36%
QC value within limits for Ba 233.527		Recovery = 97.13%				
Be 313.107†	1947867.1	4.690 mg/L	0.0685	4.690 mg/L	0.0685	1.46%
QC value within limits for Be 313.107		Recovery = 93.81%				
Ca 317.933†	63272.2	9.626 mg/L	0.1085	9.626 mg/L	0.1085	1.13%
QC value within limits for Ca 317.933		Recovery = 96.26%				
Cd 228.802†	548963.9	4.874 mg/L	0.0223	4.874 mg/L	0.0223	0.46%
QC value within limits for Cd 228.802		Recovery = 97.49%				
Co 228.616†	477263.2	4.870 mg/L	0.0212	4.870 mg/L	0.0212	0.44%
QC value within limits for Co 228.616		Recovery = 97.40%				
Cr 267.716†	614281.9	4.824 mg/L	0.0196	4.824 mg/L	0.0196	0.41%
QC value within limits for Cr 267.716		Recovery = 96.49%				
Cu 327.393†	793530.8	4.657 mg/L	0.0156	4.657 mg/L	0.0156	0.34%
QC value within limits for Cu 327.393		Recovery = 93.15%				

Fe 238.204†	10489.3	4.702 mg/L	0.0512	4.702 mg/L	0.0512	1.09%
QC value within limits for Fe 238.204 Recovery = 94.04%						
K 766.490†	28850.3	9.423 mg/L	0.0715	9.423 mg/L	0.0715	0.76%
QC value within limits for K 766.490 Recovery = 94.23%						
Mg 285.213†	76893.8	9.561 mg/L	0.0884	9.561 mg/L	0.0884	0.92%
QC value within limits for Mg 285.213 Recovery = 95.61%						
Mn 257.610†	110662.1	4.676 mg/L	0.0470	4.676 mg/L	0.0470	1.00%
QC value within limits for Mn 257.610 Recovery = 93.52%						
Mo 202.031†	117123.5	4.801 mg/L	0.0203	4.801 mg/L	0.0203	0.42%
QC value within limits for Mo 202.031 Recovery = 96.02%						
Na 589.592†	98767.9	9.426 mg/L	0.1328	9.426 mg/L	0.1328	1.41%
QC value within limits for Na 589.592 Recovery = 94.26%						
Ni 231.604†	188019.8	4.833 mg/L	0.0198	4.833 mg/L	0.0198	0.41%
QC value within limits for Ni 231.604 Recovery = 96.66%						
Pb 220.353†	58722.1	4.842 mg/L	0.0522	4.842 mg/L	0.0522	1.08%
QC value within limits for Pb 220.353 Recovery = 96.85%						
Sb 206.836†	29256.1	4.748 mg/L	0.0436	4.748 mg/L	0.0436	0.92%
QC value within limits for Sb 206.836 Recovery = 94.96%						
Se 196.026†	9334.2	4.874 mg/L	0.0518	4.874 mg/L	0.0518	1.06%
QC value within limits for Se 196.026 Recovery = 97.48%						
Sn 189.927†	40559.4	4.843 mg/L	0.0525	4.843 mg/L	0.0525	1.08%
QC value within limits for Sn 189.927 Recovery = 96.87%						
Ti 337.279†	83936.4	4.692 mg/L	0.0480	4.692 mg/L	0.0480	1.02%
QC value within limits for Ti 337.279 Recovery = 93.84%						
Tl 351.924†	27263.7	2.356 mg/L	0.0295	2.356 mg/L	0.0295	1.25%
QC value within limits for Tl 351.924 Recovery = 94.24%						
V 290.880†	1037449.9	4.924 mg/L	0.0156	4.924 mg/L	0.0156	0.32%
QC value within limits for V 290.880 Recovery = 98.47%						
Zn 206.200†	352044.7	4.950 mg/L	0.0257	4.950 mg/L	0.0257	0.52%
QC value within limits for Zn 206.200 Recovery = 98.99%						
Zr 343.823†	2057111.6	4.776 mg/L	0.0104	4.776 mg/L	0.0104	0.22%
All analyte(s) passed QC.						

Sequence No.: 76

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/18/2024 6:12:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4781920.9	94.60 %	0.696			0.74%
Y radial	170009.4	97.04 %	0.968			1.00%
Ag 328.068†	673.3	0.0024 mg/L	0.00005	0.0024 mg/L	0.00005	1.93%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	22.8	0.0061 mg/L	0.00460	0.0061 mg/L	0.00460	75.80%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	1.2	0.0004 mg/L	0.00092	0.0004 mg/L	0.00092	258.64%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	72.0	0.0039 mg/L	0.00008	0.0039 mg/L	0.00008	2.05%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	17.9	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	25.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-43.6	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	38.50%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-6.6	-0.0010 mg/L	0.00141	-0.0010 mg/L	0.00141	140.06%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	20.5	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	25.91%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-2.8	-0.0000 mg/L	0.00019	-0.0000 mg/L	0.00019	721.55%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	27.7	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	57.09%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-583.6	-0.0034 mg/L	0.00023	-0.0034 mg/L	0.00023	6.63%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	2.8	0.0013 mg/L	0.00104	0.0013 mg/L	0.00104	82.41%

QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† 122.0 0.0399 mg/L 0.02506 0.0399 mg/L 0.02506 62.88%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† -0.3 -0.0000 mg/L 0.00093 -0.0000 mg/L 0.00093 >999.9%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† -3.6 -0.0002 mg/L 0.00017 -0.0002 mg/L 0.00017 114.88%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 33.7 0.0014 mg/L 0.00006 0.0014 mg/L 0.00006 4.08%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 1137.1 0.1085 mg/L 0.00617 0.1085 mg/L 0.00617 5.69%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† 5.0 0.0001 mg/L 0.00017 0.0001 mg/L 0.00017 137.68%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 12.7 0.0011 mg/L 0.00035 0.0011 mg/L 0.00035 32.95%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 4.9 0.0008 mg/L 0.00034 0.0008 mg/L 0.00034 41.31%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 2.1 0.0011 mg/L 0.00196 0.0011 mg/L 0.00196 175.75%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 0.8 0.0001 mg/L 0.00047 0.0001 mg/L 0.00047 483.43%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 9.2 0.0005 mg/L 0.00030 0.0005 mg/L 0.00030 59.26%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 22.4 0.0019 mg/L 0.00312 0.0019 mg/L 0.00312 160.08%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 846.2 0.0040 mg/L 0.00024 0.0040 mg/L 0.00024 5.97%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 64.7 0.0009 mg/L 0.00008 0.0009 mg/L 0.00008 9.26%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -5.5 -0.0000 mg/L 0.00013 -0.0000 mg/L 0.00013 >999.9%
 All analyte(s) passed QC.

Sequence No.: 77

Sample ID: 24D0348-08@10X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 88

Date Collected: 4/18/2024 6:17:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0348-08@10X

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4751243.4	93.99 %		0.537			0.57%
Y radial	171566.4	97.93 %		2.591			2.65%
Ag 328.068†	126.8	0.0010 mg/L		0.00008	0.0010 mg/L	0.00008	7.51%
Al 396.153†	63007.2	16.91 mg/L		0.176	16.91 mg/L	0.176	1.04%
As 188.979†	-30.6	0.0038 mg/L		0.00132	0.0038 mg/L	0.00132	34.64%
B 208.889†	120.1	0.0066 mg/L		0.00015	0.0066 mg/L	0.00015	2.29%
Ba 233.527†	9091.6	0.0523 mg/L		0.00092	0.0523 mg/L	0.00092	1.77%
Be 313.107†	287.4	0.0005 mg/L		0.00006	0.0005 mg/L	0.00006	12.57%
Ca 317.933†	6867.4	1.045 mg/L		0.0308	1.045 mg/L	0.0308	2.95%
Cd 228.802†	-2.3	0.0004 mg/L		0.00005	0.0004 mg/L	0.00005	11.75%
Co 228.616†	793.6	0.0068 mg/L		0.00013	0.0068 mg/L	0.00013	1.96%
Cr 267.716†	2955.0	0.0231 mg/L		0.00018	0.0231 mg/L	0.00018	0.77%
Cu 327.393†	3877.8	0.0227 mg/L		0.00037	0.0227 mg/L	0.00037	1.64%
Fe 238.204†	54143.6	24.14 mg/L		0.237	24.14 mg/L	0.237	0.98%
K 766.490†	6895.8	2.252 mg/L		0.0645	2.252 mg/L	0.0645	2.86%
Mg 285.213†	31492.2	3.944 mg/L		0.0957	3.944 mg/L	0.0957	2.43%
Mn 257.610†	5612.8	0.2390 mg/L		0.00628	0.2390 mg/L	0.00628	2.63%
Mo 202.031†	11.8	0.0005 mg/L		0.00020	0.0005 mg/L	0.00020	41.53%
Na 589.592†	1571.2	0.1499 mg/L		0.00606	0.1499 mg/L	0.00606	4.04%
Ni 231.604†	745.2	0.0192 mg/L		0.00021	0.0192 mg/L	0.00021	1.09%
Pb 220.353†	113.7	0.0105 mg/L		0.00042	0.0105 mg/L	0.00042	3.98%
Sb 206.836†	-3.5	0.0002 mg/L		0.00102	0.0002 mg/L	0.00102	498.82%
Se 196.026†	0.7	0.0002 mg/L		0.00138	0.0002 mg/L	0.00138	581.40%
Sn 189.927†	-4.8	-0.0006 mg/L		0.00022	-0.0006 mg/L	0.00022	37.52%
Ti 337.279†	11095.1	0.6206 mg/L		0.01522	0.6206 mg/L	0.01522	2.45%
Tl 351.924†	-146.3	0.0005 mg/L		0.00697	0.0005 mg/L	0.00697	>999.9%

V 290.880†	8879.9	0.0406 mg/L	0.00085	0.0406 mg/L	0.00085	2.09%
Zn 206.200†	5046.7	0.0691 mg/L	0.00030	0.0691 mg/L	0.00030	0.43%
Zr 343.823†	3415.6	0.0074 mg/L	0.00024	0.0074 mg/L	0.00024	3.32%

Sequence No.: 78

Sample ID: 24D0348-12@10X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 89

Date Collected: 4/18/2024 6:23:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0348-12@10X

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4882749.7	96.59 %		0.839			0.87%
Y radial	170569.5	97.36 %		0.521			0.54%
Ag 328.068†	447.6	0.0019 mg/L		0.00019	0.0019 mg/L	0.00019	10.14%
Al 396.153†	25205.2	6.766 mg/L		0.0515	6.766 mg/L	0.0515	0.76%
As 188.979†	-21.8	0.0009 mg/L		0.00138	0.0009 mg/L	0.00138	150.40%
B 208.889†	82.9	0.0045 mg/L		0.00025	0.0045 mg/L	0.00025	5.70%
Ba 233.527†	4182.5	0.0237 mg/L		0.00022	0.0237 mg/L	0.00022	0.91%
Be 313.107†	56.4	0.0000 mg/L		0.00003	0.0000 mg/L	0.00003	305.63%
Ca 317.933†	3459.2	0.5262 mg/L		0.00399	0.5262 mg/L	0.00399	0.76%
Cd 228.802†	11.4	0.0004 mg/L		0.00010	0.0004 mg/L	0.00010	28.22%
Co 228.616†	528.1	0.0046 mg/L		0.00008	0.0046 mg/L	0.00008	1.84%
Cr 267.716†	1623.5	0.0127 mg/L		0.00010	0.0127 mg/L	0.00010	0.81%
Cu 327.393†	1277.2	0.0075 mg/L		0.00020	0.0075 mg/L	0.00020	2.67%
Fe 238.204†	30776.3	13.72 mg/L		0.067	13.72 mg/L	0.067	0.49%
K 766.490†	2915.0	0.9521 mg/L		0.00844	0.9521 mg/L	0.00844	0.89%
Mg 285.213†	12969.9	1.627 mg/L		0.0102	1.627 mg/L	0.0102	0.63%
Mn 257.610†	3205.9	0.1365 mg/L		0.00072	0.1365 mg/L	0.00072	0.53%
Mo 202.031†	69.6	0.0029 mg/L		0.00007	0.0029 mg/L	0.00007	2.30%
Na 589.592†	1417.4	0.1353 mg/L		0.00191	0.1353 mg/L	0.00191	1.41%
Ni 231.604†	382.4	0.0098 mg/L		0.00017	0.0098 mg/L	0.00017	1.78%
Pb 220.353†	76.4	0.0066 mg/L		0.00042	0.0066 mg/L	0.00042	6.27%
Sb 206.836†	4.2	0.0012 mg/L		0.00038	0.0012 mg/L	0.00038	32.45%
Se 196.026†	-2.7	-0.0014 mg/L		0.00163	-0.0014 mg/L	0.00163	119.60%
Sn 189.927†	12.6	0.0015 mg/L		0.00019	0.0015 mg/L	0.00019	12.73%
Ti 337.279†	6567.0	0.3673 mg/L		0.00256	0.3673 mg/L	0.00256	0.70%
Tl 351.924†	-4.7	0.0071 mg/L		0.00147	0.0071 mg/L	0.00147	20.60%
V 290.880†	5567.6	0.0256 mg/L		0.00077	0.0256 mg/L	0.00077	3.03%
Zn 206.200†	1648.8	0.0222 mg/L		0.00018	0.0222 mg/L	0.00018	0.83%
Zr 343.823†	2087.2	0.0045 mg/L		0.00011	0.0045 mg/L	0.00011	2.53%

Sequence No.: 79

Sample ID: 24D0348-13@10X

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 90

Date Collected: 4/18/2024 6:28:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: 24D0348-13@10X

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y axial	4881636.1	96.57 %		0.723			0.75%
Y radial	170220.2	97.16 %		0.613			0.63%
Ag 328.068†	271.3	0.0014 mg/L		0.00029	0.0014 mg/L	0.00029	20.42%
Al 396.153†	60361.9	16.20 mg/L		0.080	16.20 mg/L	0.080	0.49%
As 188.979†	-29.1	0.0056 mg/L		0.00198	0.0056 mg/L	0.00198	35.56%
B 208.889†	60.5	0.0034 mg/L		0.00016	0.0034 mg/L	0.00016	4.80%
Ba 233.527†	11396.8	0.0665 mg/L		0.00054	0.0665 mg/L	0.00054	0.82%
Be 313.107†	233.8	0.0004 mg/L		0.00001	0.0004 mg/L	0.00001	2.99%
Ca 317.933†	5659.9	0.8610 mg/L		0.00728	0.8610 mg/L	0.00728	0.84%
Cd 228.802†	3.2	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	14.42%
Co 228.616†	861.1	0.0071 mg/L		0.00017	0.0071 mg/L	0.00017	2.48%
Cr 267.716†	4702.2	0.0367 mg/L		0.00043	0.0367 mg/L	0.00043	1.17%

Analyte		Mean	Corrected	Calib.	Std.Dev.	Conc.	Units	Std.Dev.	RSD
		Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y axial		4679182.8	92.56	%	0.852				0.92%
Y radial		166818.5	95.22	%	1.740				1.83%
Ag	328.068†	690709.2	2.406	mg/L	0.0278	2.406	mg/L	0.0278	1.15%
	QC value within limits for Ag	328.068	Recovery =	96.26%					
Al	396.153†	36662.3	9.584	mg/L	0.0950	9.584	mg/L	0.0950	0.99%
	QC value within limits for Al	396.153	Recovery =	95.84%					
As	188.979†	15464.8	4.792	mg/L	0.0275	4.792	mg/L	0.0275	0.57%
	QC value within limits for As	188.979	Recovery =	95.83%					
B	208.889†	86349.5	4.547	mg/L	0.0208	4.547	mg/L	0.0208	0.46%
	QC value within limits for B	208.889	Recovery =	90.94%					
Ba	233.527†	798007.9	4.872	mg/L	0.0262	4.872	mg/L	0.0262	0.54%
	QC value within limits for Ba	233.527	Recovery =	97.44%					
Be	313.107†	1973555.9	4.753	mg/L	0.0592	4.753	mg/L	0.0592	1.25%
	QC value within limits for Be	313.107	Recovery =	95.05%					
Ca	317.933†	63950.9	9.729	mg/L	0.1017	9.729	mg/L	0.1017	1.05%
	QC value within limits for Ca	317.933	Recovery =	97.29%					
Cd	228.802†	549230.6	4.876	mg/L	0.0283	4.876	mg/L	0.0283	0.58%
	QC value within limits for Cd	228.802	Recovery =	97.52%					
Co	228.616†	477080.0	4.868	mg/L	0.0285	4.868	mg/L	0.0285	0.58%
	QC value within limits for Co	228.616	Recovery =	97.36%					
Cr	267.716†	616638.8	4.843	mg/L	0.0261	4.843	mg/L	0.0261	0.54%
	QC value within limits for Cr	267.716	Recovery =	96.86%					
Cu	327.393†	801913.5	4.706	mg/L	0.0213	4.706	mg/L	0.0213	0.45%
	QC value within limits for Cu	327.393	Recovery =	94.13%					
Fe	238.204†	10632.5	4.766	mg/L	0.0367	4.766	mg/L	0.0367	0.77%
	QC value within limits for Fe	238.204	Recovery =	95.32%					
K	766.490†	29013.6	9.476	mg/L	0.1117	9.476	mg/L	0.1117	1.18%
	QC value within limits for K	766.490	Recovery =	94.76%					
Mg	285.213†	77976.0	9.695	mg/L	0.0745	9.695	mg/L	0.0745	0.77%
	QC value within limits for Mg	285.213	Recovery =	96.95%					
Mn	257.610†	112507.9	4.754	mg/L	0.0450	4.754	mg/L	0.0450	0.95%
	QC value within limits for Mn	257.610	Recovery =	95.08%					
Mo	202.031†	117499.2	4.816	mg/L	0.0210	4.816	mg/L	0.0210	0.44%
	QC value within limits for Mo	202.031	Recovery =	96.32%					
Na	589.592†	98978.9	9.446	mg/L	0.1250	9.446	mg/L	0.1250	1.32%
	QC value within limits for Na	589.592	Recovery =	94.46%					
Ni	231.604†	188597.9	4.848	mg/L	0.0302	4.848	mg/L	0.0302	0.62%
	QC value within limits for Ni	231.604	Recovery =	96.95%					
Pb	220.353†	59370.2	4.896	mg/L	0.0334	4.896	mg/L	0.0334	0.68%
	QC value within limits for Pb	220.353	Recovery =	97.92%					

Sb 206.836†	29457.3	4.781 mg/L	0.0315	4.781 mg/L	0.0315	0.66%
QC value within limits for Sb 206.836		Recovery = 95.62%				
Se 196.026†	9332.7	4.873 mg/L	0.0347	4.873 mg/L	0.0347	0.71%
QC value within limits for Se 196.026		Recovery = 97.47%				
Sn 189.927†	40919.1	4.886 mg/L	0.0350	4.886 mg/L	0.0350	0.72%
QC value within limits for Sn 189.927		Recovery = 97.73%				
Ti 337.279†	84955.4	4.749 mg/L	0.0366	4.749 mg/L	0.0366	0.77%
QC value within limits for Ti 337.279		Recovery = 94.98%				
Tl 351.924†	27581.3	2.384 mg/L	0.0052	2.384 mg/L	0.0052	0.22%
QC value within limits for Tl 351.924		Recovery = 95.35%				
V 290.880†	1037362.4	4.923 mg/L	0.0221	4.923 mg/L	0.0221	0.45%
QC value within limits for V 290.880		Recovery = 98.46%				
Zn 206.200†	351679.2	4.945 mg/L	0.0339	4.945 mg/L	0.0339	0.69%
QC value within limits for Zn 206.200		Recovery = 98.89%				
Zr 343.823†	2073645.7	4.815 mg/L	0.0245	4.815 mg/L	0.0245	0.51%
All analyte(s) passed QC.						

Sequence No.: 81

Sample ID: SEQ-CCB@ 23J0970

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 1

Date Collected: 4/18/2024 6:40:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4836522.8	95.68 %	0.466			0.49%
Y radial	167724.8	95.74 %	1.309			1.37%
Ag 328.068†	679.2	0.0024 mg/L	0.00021	0.0024 mg/L	0.00021	8.90%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153†	31.5	0.0084 mg/L	0.00624	0.0084 mg/L	0.00624	74.39%
QC value within limits for Al 396.153		Recovery = Not calculated				
As 188.979†	2.4	0.0007 mg/L	0.00083	0.0007 mg/L	0.00083	110.69%
QC value within limits for As 188.979		Recovery = Not calculated				
B 208.889†	98.3	0.0054 mg/L	0.00022	0.0054 mg/L	0.00022	4.14%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	11.7	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	22.12%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 313.107†	-38.3	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	54.44%
QC value within limits for Be 313.107		Recovery = Not calculated				
Ca 317.933†	17.1	0.0026 mg/L	0.00246	0.0026 mg/L	0.00246	94.77%
QC value within limits for Ca 317.933		Recovery = Not calculated				
Cd 228.802†	17.6	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	26.79%
QC value within limits for Cd 228.802		Recovery = Not calculated				
Co 228.616†	2.9	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	160.54%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	-19.8	-0.0002 mg/L	0.00016	-0.0002 mg/L	0.00016	100.91%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 327.393†	-684.9	-0.0040 mg/L	0.00028	-0.0040 mg/L	0.00028	6.87%
QC value within limits for Cu 327.393		Recovery = Not calculated				
Fe 238.204†	-0.2	-0.0001 mg/L	0.00083	-0.0001 mg/L	0.00083	>999.9%
QC value within limits for Fe 238.204		Recovery = Not calculated				
K 766.490†	117.4	0.0383 mg/L	0.00917	0.0383 mg/L	0.00917	23.93%
QC value within limits for K 766.490		Recovery = Not calculated				
Mg 285.213†	-1.4	-0.0002 mg/L	0.00080	-0.0002 mg/L	0.00080	476.28%
QC value within limits for Mg 285.213		Recovery = Not calculated				
Mn 257.610†	-0.5	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	294.18%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	37.0	0.0015 mg/L	0.00013	0.0015 mg/L	0.00013	8.26%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592†	948.3	0.0905 mg/L	0.00172	0.0905 mg/L	0.00172	1.90%
QC value within limits for Na 589.592		Recovery = Not calculated				
Ni 231.604†	3.2	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	130.74%
QC value within limits for Ni 231.604		Recovery = Not calculated				
Pb 220.353†	8.1	0.0007 mg/L	0.00026	0.0007 mg/L	0.00026	38.28%
QC value within limits for Pb 220.353		Recovery = Not calculated				
Sb 206.836†	2.2	0.0004 mg/L	0.00028	0.0004 mg/L	0.00028	76.01%

QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 3.0 0.0016 mg/L 0.00176 0.0016 mg/L 0.00176 112.37%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† -1.7 -0.0002 mg/L 0.00042 -0.0002 mg/L 0.00042 211.12%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 10.2 0.0006 mg/L 0.00018 0.0006 mg/L 0.00018 31.47%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† -13.4 -0.0012 mg/L 0.00280 -0.0012 mg/L 0.00280 236.17%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 441.4 0.0021 mg/L 0.00023 0.0021 mg/L 0.00023 10.79%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 75.7 0.0010 mg/L 0.00009 0.0010 mg/L 0.00009 8.21%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† -47.8 -0.0001 mg/L 0.00016 -0.0001 mg/L 0.00016 145.40%
 All analyte(s) passed QC.

Sequence No.: 82

Sample ID: B371174-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 91

Date Collected: 4/18/2024 6:45:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371174-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4444928.2	87.93 %		1.138				1.29%
Y radial	173192.5	98.86 %		1.345				1.36%
Ag 328.068†	520.1	0.0019 mg/L		0.00017	0.0019 mg/L		0.00017	9.19%
Al 396.153†	1450.0	0.3892 mg/L		0.00674	0.3892 mg/L		0.00674	1.73%
As 188.979†	-47.4	-0.0147 mg/L		0.00129	-0.0147 mg/L		0.00129	8.80%
B 208.889†	1996.2	0.1107 mg/L		0.00149	0.1107 mg/L		0.00149	1.35%
Ba 233.527†	1471.5	0.0090 mg/L		0.00018	0.0090 mg/L		0.00018	2.04%
Be 313.107†	-62.0	-0.0002 mg/L		0.00002	-0.0002 mg/L		0.00002	9.17%
Ca 317.933†	3406.2	0.5182 mg/L		0.00378	0.5182 mg/L		0.00378	0.73%
Cd 228.802†	38.9	0.0007 mg/L		0.00013	0.0007 mg/L		0.00013	18.77%
Co 228.616†	23.0	0.0002 mg/L		0.00005	0.0002 mg/L		0.00005	20.14%
Cr 267.716†	185.4	0.0015 mg/L		0.00007	0.0015 mg/L		0.00007	4.99%
Cu 327.393†	-413.7	-0.0024 mg/L		0.00037	-0.0024 mg/L		0.00037	15.10%
Fe 238.204†	521.6	0.2325 mg/L		0.00068	0.2325 mg/L		0.00068	0.29%
K 766.490†	2351.0	0.7679 mg/L		0.00863	0.7679 mg/L		0.00863	1.12%
Mg 285.213†	1855.7	0.2313 mg/L		0.00129	0.2313 mg/L		0.00129	0.56%
Mn 257.610†	178.6	0.0076 mg/L		0.00022	0.0076 mg/L		0.00022	2.95%
Mo 202.031†	13.7	0.0006 mg/L		0.00035	0.0006 mg/L		0.00035	61.62%
Na 589.592†	Saturated2							
Ni 231.604†	96.4	0.0025 mg/L		0.00029	0.0025 mg/L		0.00029	11.86%
Pb 220.353†	22.6	0.0019 mg/L		0.00099	0.0019 mg/L		0.00099	51.80%
Sb 206.836†	0.8	0.0001 mg/L		0.00073	0.0001 mg/L		0.00073	621.34%
Se 196.026†	22.1	0.0114 mg/L		0.00205	0.0114 mg/L		0.00205	17.90%
Sn 189.927†	-5.4	-0.0006 mg/L		0.00015	-0.0006 mg/L		0.00015	22.68%
Ti 337.279†	40.4	0.0023 mg/L		0.00017	0.0023 mg/L		0.00017	7.48%
Tl 351.924†	23.3	0.0021 mg/L		0.00133	0.0021 mg/L		0.00133	61.76%
V 290.880†	2030.6	0.0096 mg/L		0.00048	0.0096 mg/L		0.00048	4.97%
Zn 206.200†	889.1	0.0124 mg/L		0.00017	0.0124 mg/L		0.00017	1.38%
Zr 343.823†	156.9	0.0004 mg/L		0.00005	0.0004 mg/L		0.00005	13.91%

Sequence No.: 83

Sample ID: B371174-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 92

Date Collected: 4/18/2024 6:53:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371174-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD

Y axial	4456582.7	88.16 %	1.282			1.45%
Y radial	173412.8	98.98 %	1.130			1.14%
Ag 328.068†	153111.5	0.5400 mg/L	0.00615	0.5400 mg/L	0.00615	1.14%
Al 396.153†	3121.9	0.8191 mg/L	0.00490	0.8191 mg/L	0.00490	0.60%
As 188.979†	1612.6	0.5006 mg/L	0.00588	0.5006 mg/L	0.00588	1.17%
B 208.889†	17356.4	0.9387 mg/L	0.00875	0.9387 mg/L	0.00875	0.93%
Ba 233.527†	81059.2	0.4945 mg/L	0.00542	0.4945 mg/L	0.00542	1.10%
Be 313.107†	192208.6	0.4627 mg/L	0.00379	0.4627 mg/L	0.00379	0.82%
Ca 317.933†	26260.4	3.995 mg/L	0.0076	3.995 mg/L	0.0076	0.19%
Cd 228.802†	58905.9	0.5231 mg/L	0.00661	0.5231 mg/L	0.00661	1.26%
Co 228.616†	45494.0	0.4642 mg/L	0.00575	0.4642 mg/L	0.00575	1.24%
Cr 267.716†	61198.2	0.4806 mg/L	0.00537	0.4806 mg/L	0.00537	1.12%
Cu 327.393†	171324.8	1.002 mg/L	0.0127	1.002 mg/L	0.0127	1.27%
Fe 238.204†	8607.4	3.840 mg/L	0.0174	3.840 mg/L	0.0174	0.45%
K 766.490†	17086.2	5.581 mg/L	0.0393	5.581 mg/L	0.0393	0.70%
Mg 285.213†	31601.4	3.941 mg/L	0.0176	3.941 mg/L	0.0176	0.45%
Mn 257.610†	10949.9	0.4630 mg/L	0.00241	0.4630 mg/L	0.00241	0.52%
Mo 202.031†	11624.5	0.4765 mg/L	0.00508	0.4765 mg/L	0.00508	1.07%
Na 589.592†	Saturated2					
Ni 231.604†	18067.2	0.4642 mg/L	0.00626	0.4642 mg/L	0.00626	1.35%
Pb 220.353†	5677.2	0.4669 mg/L	0.00542	0.4669 mg/L	0.00542	1.16%
Sb 206.836†	3084.2	0.5005 mg/L	0.00575	0.5005 mg/L	0.00575	1.15%
Se 196.026†	1112.2	0.5797 mg/L	0.00610	0.5797 mg/L	0.00610	1.05%
Sn 189.927†	3892.1	0.4652 mg/L	0.00493	0.4652 mg/L	0.00493	1.06%
Ti 337.279†	8553.9	0.4784 mg/L	0.00300	0.4784 mg/L	0.00300	0.63%
Tl 351.924†	6080.1	0.5330 mg/L	0.01181	0.5330 mg/L	0.01181	2.22%
V 290.880†	106776.5	0.5065 mg/L	0.00618	0.5065 mg/L	0.00618	1.22%
Zn 206.200†	73467.1	1.028 mg/L	0.0093	1.028 mg/L	0.0093	0.91%
Zr 343.823†	1159.8	0.0026 mg/L	0.00064	0.0026 mg/L	0.00064	24.49%

Sequence No.: 84

Sample ID: B371174-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 93

Date Collected: 4/18/2024 6:59:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371174-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4324517.2	85.55 %		0.567			0.66%
Y radial	169055.7	96.50 %		1.283			1.33%
Ag 328.068†	153108.6	0.5400 mg/L		0.00518	0.5400 mg/L	0.00518	0.96%
Al 396.153†	2319.8	0.6035 mg/L		0.00300	0.6035 mg/L	0.00300	0.50%
As 188.979†	1615.1	0.5013 mg/L		0.00571	0.5013 mg/L	0.00571	1.14%
B 208.889†	18832.3	1.020 mg/L		0.0132	1.020 mg/L	0.0132	1.29%
Ba 233.527†	81036.4	0.4943 mg/L		0.00550	0.4943 mg/L	0.00550	1.11%
Be 313.107†	192050.7	0.4623 mg/L		0.01007	0.4623 mg/L	0.01007	2.18%
Ca 317.933†	28936.6	4.402 mg/L		0.0071	4.402 mg/L	0.0071	0.16%
Cd 228.802†	59008.7	0.5240 mg/L		0.00494	0.5240 mg/L	0.00494	0.94%
Co 228.616†	45757.4	0.4669 mg/L		0.00469	0.4669 mg/L	0.00469	1.00%
Cr 267.716†	61581.6	0.4836 mg/L		0.00448	0.4836 mg/L	0.00448	0.93%
Cu 327.393†	193213.8	1.130 mg/L		0.0129	1.130 mg/L	0.0129	1.14%
Fe 238.204†	8556.7	3.817 mg/L		0.0236	3.817 mg/L	0.0236	0.62%
K 766.490†	16133.6	5.269 mg/L		0.0398	5.269 mg/L	0.0398	0.76%
Mg 285.213†	32266.4	4.024 mg/L		0.0125	4.024 mg/L	0.0125	0.31%
Mn 257.610†	10852.1	0.4588 mg/L		0.00140	0.4588 mg/L	0.00140	0.31%
Mo 202.031†	11794.1	0.4834 mg/L		0.00438	0.4834 mg/L	0.00438	0.91%
Na 589.592†	Saturated2						
Ni 231.604†	18120.8	0.4656 mg/L		0.00525	0.4656 mg/L	0.00525	1.13%
Pb 220.353†	7784.1	0.6402 mg/L		0.00534	0.6402 mg/L	0.00534	0.83%
Sb 206.836†	3118.6	0.5061 mg/L		0.00562	0.5061 mg/L	0.00562	1.11%
Se 196.026†	1102.1	0.5744 mg/L		0.00585	0.5744 mg/L	0.00585	1.02%
Sn 189.927†	3940.6	0.4710 mg/L		0.00489	0.4710 mg/L	0.00489	1.04%
Ti 337.279†	8520.8	0.4766 mg/L		0.00183	0.4766 mg/L	0.00183	0.38%
Tl 351.924†	6081.4	0.5331 mg/L		0.00771	0.5331 mg/L	0.00771	1.45%
V 290.880†	107680.9	0.5108 mg/L		0.00562	0.5108 mg/L	0.00562	1.10%
Zn 206.200†	86009.6	1.204 mg/L		0.0122	1.204 mg/L	0.0122	1.02%

Zr 343.823† 782.0 0.0017 mg/L 0.00014 0.0017 mg/L 0.00014 8.09%

Sequence No.: 85

Sample ID: B371174-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 94

Date Collected: 4/18/2024 7:06:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371174-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4509916.4	89.22 %		1.026			1.15%
Y radial	173444.8	99.00 %		0.563			0.57%
Ag 328.068†	150377.2	0.5304 mg/L		0.00801	0.5304 mg/L	0.00801	1.51%
Al 396.153†	2192.4	0.5698 mg/L		0.00562	0.5698 mg/L	0.00562	0.99%
As 188.979†	1573.8	0.4886 mg/L		0.00905	0.4886 mg/L	0.00905	1.85%
B 208.889†	18413.3	0.9976 mg/L		0.01035	0.9976 mg/L	0.01035	1.04%
Ba 233.527†	79400.3	0.4843 mg/L		0.00702	0.4843 mg/L	0.00702	1.45%
Be 313.107†	190980.9	0.4598 mg/L		0.00790	0.4598 mg/L	0.00790	1.72%
Ca 317.933†	27916.9	4.247 mg/L		0.0155	4.247 mg/L	0.0155	0.36%
Cd 228.802†	57806.4	0.5134 mg/L		0.00688	0.5134 mg/L	0.00688	1.34%
Co 228.616†	44739.4	0.4565 mg/L		0.00640	0.4565 mg/L	0.00640	1.40%
Cr 267.716†	60201.7	0.4727 mg/L		0.00664	0.4727 mg/L	0.00664	1.40%
Cu 327.393†	166615.0	0.9743 mg/L		0.01637	0.9743 mg/L	0.01637	1.68%
Fe 238.204†	8322.7	3.713 mg/L		0.0177	3.713 mg/L	0.0177	0.48%
K 766.490†	15325.2	5.005 mg/L		0.0692	5.005 mg/L	0.0692	1.38%
Mg 285.213†	32093.0	4.002 mg/L		0.0120	4.002 mg/L	0.0120	0.30%
Mn 257.610†	11038.6	0.4667 mg/L		0.00358	0.4667 mg/L	0.00358	0.77%
Mo 202.031†	11495.9	0.4712 mg/L		0.01030	0.4712 mg/L	0.01030	2.19%
Na 589.592†	Saturated2						
Ni 231.604†	17523.6	0.4502 mg/L		0.00964	0.4502 mg/L	0.00964	2.14%
Pb 220.353†	5550.3	0.4564 mg/L		0.01042	0.4564 mg/L	0.01042	2.28%
Sb 206.836†	3018.7	0.4899 mg/L		0.01255	0.4899 mg/L	0.01255	2.56%
Se 196.026†	1080.3	0.5630 mg/L		0.01186	0.5630 mg/L	0.01186	2.11%
Sn 189.927†	3820.5	0.4567 mg/L		0.00929	0.4567 mg/L	0.00929	2.03%
Ti 337.279†	8554.1	0.4784 mg/L		0.00252	0.4784 mg/L	0.00252	0.53%
Tl 351.924†	5991.6	0.5252 mg/L		0.00630	0.5252 mg/L	0.00630	1.20%
V 290.880†	105200.6	0.4990 mg/L		0.00790	0.4990 mg/L	0.00790	1.58%
Zn 206.200†	71517.9	1.001 mg/L		0.0142	1.001 mg/L	0.0142	1.42%
Zr 343.823†	499.2	0.0011 mg/L		0.00011	0.0011 mg/L	0.00011	10.33%

Sequence No.: 86

Sample ID: B371174-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 95

Date Collected: 4/18/2024 7:13:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371174-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4455970.7	88.15 %		1.005			1.14%
Y radial	172199.3	98.29 %		0.435			0.44%
Ag 328.068†	151934.1	0.5359 mg/L		0.00278	0.5359 mg/L	0.00278	0.52%
Al 396.153†	4003.9	1.056 mg/L		0.0127	1.056 mg/L	0.0127	1.20%
As 188.979†	1602.4	0.4974 mg/L		0.00326	0.4974 mg/L	0.00326	0.66%
B 208.889†	19470.3	1.056 mg/L		0.0036	1.056 mg/L	0.0036	0.35%
Ba 233.527†	83023.0	0.5064 mg/L		0.00278	0.5064 mg/L	0.00278	0.55%
Be 313.107†	192604.9	0.4637 mg/L		0.00570	0.4637 mg/L	0.00570	1.23%
Ca 317.933†	31143.6	4.738 mg/L		0.0215	4.738 mg/L	0.0215	0.45%
Cd 228.802†	58371.4	0.5183 mg/L		0.00255	0.5183 mg/L	0.00255	0.49%
Co 228.616†	45233.6	0.4616 mg/L		0.00263	0.4616 mg/L	0.00263	0.57%
Cr 267.716†	60915.9	0.4783 mg/L		0.00239	0.4783 mg/L	0.00239	0.50%
Cu 327.393†	169055.4	0.9885 mg/L		0.00430	0.9885 mg/L	0.00430	0.43%
Fe 238.204†	8779.0	3.916 mg/L		0.0178	3.916 mg/L	0.0178	0.45%

K 766.490†	15663.1	5.116 mg/L	0.0178	5.116 mg/L	0.0178	0.35%
Mg 285.213†	34188.5	4.264 mg/L	0.0307	4.264 mg/L	0.0307	0.72%
Mn 257.610†	11098.0	0.4692 mg/L	0.00139	0.4692 mg/L	0.00139	0.30%
Mo 202.031†	11690.6	0.4792 mg/L	0.00197	0.4792 mg/L	0.00197	0.41%
Na 589.592†	Saturated2					
Ni 231.604†	17797.8	0.4573 mg/L	0.00237	0.4573 mg/L	0.00237	0.52%
Pb 220.353†	5690.8	0.4681 mg/L	0.00275	0.4681 mg/L	0.00275	0.59%
Sb 206.836†	3071.6	0.4985 mg/L	0.00340	0.4985 mg/L	0.00340	0.68%
Se 196.026†	1088.5	0.5672 mg/L	0.00512	0.5672 mg/L	0.00512	0.90%
Sn 189.927†	3891.7	0.4652 mg/L	0.00127	0.4652 mg/L	0.00127	0.27%
Ti 337.279†	8558.3	0.4787 mg/L	0.00382	0.4787 mg/L	0.00382	0.80%
Tl 351.924†	6026.9	0.5284 mg/L	0.01108	0.5284 mg/L	0.01108	2.10%
V 290.880†	106247.8	0.5040 mg/L	0.00346	0.5040 mg/L	0.00346	0.69%
Zn 206.200†	73350.9	1.027 mg/L	0.0061	1.027 mg/L	0.0061	0.60%
Zr 343.823†	549.2	0.0012 mg/L	0.00004	0.0012 mg/L	0.00004	3.58%

Sequence No.: 87

Sample ID: B371175-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 96

Date Collected: 4/18/2024 7:19:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371175-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	4417826.1	87.39 %		1.073				1.23%
Y radial	174564.8	99.64 %		1.032				1.04%
Ag 328.068†	549.2	0.0020 mg/L		0.00025	0.0020 mg/L		0.00025	12.92%
Al 396.153†	66.1	0.0178 mg/L		0.00318	0.0178 mg/L		0.00318	17.93%
As 188.979†	-51.2	-0.0159 mg/L		0.00047	-0.0159 mg/L		0.00047	2.94%
B 208.889†	277.0	0.0154 mg/L		0.00062	0.0154 mg/L		0.00062	4.04%
Ba 233.527†	553.0	0.0034 mg/L		0.00009	0.0034 mg/L		0.00009	2.64%
Be 313.107†	-100.4	-0.0003 mg/L		0.00002	-0.0003 mg/L		0.00002	6.15%
Ca 317.933†	183.5	0.0279 mg/L		0.00026	0.0279 mg/L		0.00026	0.92%
Cd 228.802†	25.2	0.0006 mg/L		0.00005	0.0006 mg/L		0.00005	8.39%
Co 228.616†	22.9	0.0002 mg/L		0.00008	0.0002 mg/L		0.00008	35.16%
Cr 267.716†	68.8	0.0005 mg/L		0.00008	0.0005 mg/L		0.00008	14.29%
Cu 327.393†	-923.6	-0.0054 mg/L		0.00007	-0.0054 mg/L		0.00007	1.33%
Fe 238.204†	43.3	0.0193 mg/L		0.00074	0.0193 mg/L		0.00074	3.82%
K 766.490†	1471.7	0.4807 mg/L		0.01351	0.4807 mg/L		0.01351	2.81%
Mg 285.213†	120.7	0.0151 mg/L		0.00057	0.0151 mg/L		0.00057	3.80%
Mn 257.610†	415.3	0.0175 mg/L		0.00010	0.0175 mg/L		0.00010	0.59%
Mo 202.031†	0.6	0.0000 mg/L		0.00017	0.0000 mg/L		0.00017	758.25%
Na 589.592†	Saturated2							
Ni 231.604†	117.4	0.0030 mg/L		0.00032	0.0030 mg/L		0.00032	10.63%
Pb 220.353†	-9.8	-0.0008 mg/L		0.00027	-0.0008 mg/L		0.00027	34.11%
Sb 206.836†	-0.1	-0.0000 mg/L		0.00075	-0.0000 mg/L		0.00075	>999.9%
Se 196.026†	26.7	0.0139 mg/L		0.00030	0.0139 mg/L		0.00030	2.17%
Sn 189.927†	2.3	0.0003 mg/L		0.00023	0.0003 mg/L		0.00023	84.21%
Ti 337.279†	2.1	0.0001 mg/L		0.00020	0.0001 mg/L		0.00020	175.84%
Tl 351.924†	104.3	0.0091 mg/L		0.00571	0.0091 mg/L		0.00571	62.43%
V 290.880†	1830.5	0.0087 mg/L		0.00066	0.0087 mg/L		0.00066	7.56%
Zn 206.200†	151.3	0.0021 mg/L		0.00013	0.0021 mg/L		0.00013	6.03%
Zr 343.823†	-83.4	-0.0002 mg/L		0.00014	-0.0002 mg/L		0.00014	74.62%

Sequence No.: 88

Sample ID: B371175-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 97

Date Collected: 4/18/2024 7:27:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371175-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD

Y axial	4536595.0	89.74 %	1.589			1.77%
Y radial	177415.3	101.3 %	1.20			1.19%
Ag 328.068†	153051.1	0.5398 mg/L	0.00599	0.5398 mg/L	0.00599	1.11%
Al 396.153†	5562.2	1.474 mg/L	0.0149	1.474 mg/L	0.0149	1.01%
As 188.979†	1617.2	0.5023 mg/L	0.00907	0.5023 mg/L	0.00907	1.81%
B 208.889†	16979.8	0.9178 mg/L	0.01166	0.9178 mg/L	0.01166	1.27%
Ba 233.527†	81731.6	0.4985 mg/L	0.00646	0.4985 mg/L	0.00646	1.30%
Be 313.107†	190252.7	0.4580 mg/L	0.00359	0.4580 mg/L	0.00359	0.78%
Ca 317.933†	27286.0	4.151 mg/L	0.0517	4.151 mg/L	0.0517	1.25%
Cd 228.802†	58686.6	0.5211 mg/L	0.00687	0.5211 mg/L	0.00687	1.32%
Co 228.616†	45392.9	0.4632 mg/L	0.00639	0.4632 mg/L	0.00639	1.38%
Cr 267.716†	60872.6	0.4780 mg/L	0.00667	0.4780 mg/L	0.00667	1.39%
Cu 327.393†	170328.4	0.9960 mg/L	0.01351	0.9960 mg/L	0.01351	1.36%
Fe 238.204†	9942.5	4.435 mg/L	0.0709	4.435 mg/L	0.0709	1.60%
K 766.490†	14823.6	4.842 mg/L	0.0796	4.842 mg/L	0.0796	1.64%
Mg 285.213†	33509.6	4.180 mg/L	0.0748	4.180 mg/L	0.0748	1.79%
Mn 257.610†	11316.8	0.4785 mg/L	0.00676	0.4785 mg/L	0.00676	1.41%
Mo 202.031†	11598.4	0.4754 mg/L	0.01025	0.4754 mg/L	0.01025	2.16%
Na 589.592†	Saturated2					
Ni 231.604†	17944.4	0.4610 mg/L	0.00614	0.4610 mg/L	0.00614	1.33%
Pb 220.353†	5720.7	0.4705 mg/L	0.00900	0.4705 mg/L	0.00900	1.91%
Sb 206.836†	3097.5	0.5027 mg/L	0.01055	0.5027 mg/L	0.01055	2.10%
Se 196.026†	1107.4	0.5771 mg/L	0.01376	0.5771 mg/L	0.01376	2.38%
Sn 189.927†	3885.3	0.4644 mg/L	0.00919	0.4644 mg/L	0.00919	1.98%
Ti 337.279†	8617.2	0.4820 mg/L	0.00712	0.4820 mg/L	0.00712	1.48%
Tl 351.924†	6076.1	0.5331 mg/L	0.00958	0.5331 mg/L	0.00958	1.80%
V 290.880†	106416.7	0.5048 mg/L	0.00702	0.5048 mg/L	0.00702	1.39%
Zn 206.200†	73636.3	1.031 mg/L	0.0147	1.031 mg/L	0.0147	1.42%
Zr 343.823†	244.0	0.0005 mg/L	0.00005	0.0005 mg/L	0.00005	11.94%

Sequence No.: 89

Sample ID: B371175-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 98

Date Collected: 4/18/2024 7:33:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371175-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4523894.0	89.49 %		0.161			0.18%
Y radial	181654.3	103.7 %		0.46			0.44%
Ag 328.068†	153332.4	0.5408 mg/L		0.00445	0.5408 mg/L	0.00445	0.82%
Al 396.153†	3020.3	0.7921 mg/L		0.00271	0.7921 mg/L	0.00271	0.34%
As 188.979†	1603.9	0.4980 mg/L		0.01339	0.4980 mg/L	0.01339	2.69%
B 208.889†	17100.2	0.9248 mg/L		0.00853	0.9248 mg/L	0.00853	0.92%
Ba 233.527†	80561.1	0.4914 mg/L		0.00446	0.4914 mg/L	0.00446	0.91%
Be 313.107†	190377.9	0.4583 mg/L		0.00341	0.4583 mg/L	0.00341	0.74%
Ca 317.933†	27837.8	4.235 mg/L		0.0090	4.235 mg/L	0.0090	0.21%
Cd 228.802†	58627.9	0.5206 mg/L		0.00369	0.5206 mg/L	0.00369	0.71%
Co 228.616†	45338.1	0.4626 mg/L		0.00410	0.4626 mg/L	0.00410	0.89%
Cr 267.716†	60835.4	0.4777 mg/L		0.00291	0.4777 mg/L	0.00291	0.61%
Cu 327.393†	171282.9	1.002 mg/L		0.0071	1.002 mg/L	0.0071	0.71%
Fe 238.204†	8385.6	3.741 mg/L		0.0128	3.741 mg/L	0.0128	0.34%
K 766.490†	15232.8	4.975 mg/L		0.0048	4.975 mg/L	0.0048	0.10%
Mg 285.213†	31427.2	3.919 mg/L		0.0171	3.919 mg/L	0.0171	0.44%
Mn 257.610†	10822.1	0.4576 mg/L		0.00213	0.4576 mg/L	0.00213	0.47%
Mo 202.031†	11472.1	0.4702 mg/L		0.00814	0.4702 mg/L	0.00814	1.73%
Na 589.592†	Saturated2						
Ni 231.604†	17850.4	0.4586 mg/L		0.00463	0.4586 mg/L	0.00463	1.01%
Pb 220.353†	5609.6	0.4613 mg/L		0.00898	0.4613 mg/L	0.00898	1.95%
Sb 206.836†	3055.7	0.4959 mg/L		0.01149	0.4959 mg/L	0.01149	2.32%
Se 196.026†	1093.0	0.5697 mg/L		0.01726	0.5697 mg/L	0.01726	3.03%
Sn 189.927†	3846.9	0.4598 mg/L		0.00791	0.4598 mg/L	0.00791	1.72%
Ti 337.279†	8526.7	0.4769 mg/L		0.00245	0.4769 mg/L	0.00245	0.51%
Tl 351.924†	6124.0	0.5368 mg/L		0.00806	0.5368 mg/L	0.00806	1.50%
V 290.880†	106855.5	0.5069 mg/L		0.00456	0.5069 mg/L	0.00456	0.90%
Zn 206.200†	73159.2	1.024 mg/L		0.0086	1.024 mg/L	0.0086	0.84%

Zr 343.823† 205.0 0.0004 mg/L 0.00006 0.0004 mg/L 0.00006 16.56%

Sequence No.: 90

Sample ID: B371175-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 99

Date Collected: 4/18/2024 7:40:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371175-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4433236.4	87.70	%	1.644			1.87%
Y radial	166535.3	95.06	%	1.708			1.80%
Ag 328.068†	152299.8	0.5372	mg/L	0.00337	0.5372 mg/L	0.00337	0.63%
Al 396.153†	5115.2	1.354	mg/L	0.0259	1.354 mg/L	0.0259	1.92%
As 188.979†	1605.1	0.4989	mg/L	0.00662	0.4989 mg/L	0.00662	1.33%
B 208.889†	16896.4	0.9130	mg/L	0.00207	0.9130 mg/L	0.00207	0.23%
Ba 233.527†	81503.5	0.4969	mg/L	0.00264	0.4969 mg/L	0.00264	0.53%
Be 313.107†	195599.3	0.4709	mg/L	0.00594	0.4709 mg/L	0.00594	1.26%
Ca 317.933†	26886.0	4.090	mg/L	0.0667	4.090 mg/L	0.0667	1.63%
Cd 228.802†	58687.4	0.5212	mg/L	0.00391	0.5212 mg/L	0.00391	0.75%
Co 228.616†	45822.7	0.4676	mg/L	0.00353	0.4676 mg/L	0.00353	0.76%
Cr 267.716†	61550.3	0.4833	mg/L	0.00350	0.4833 mg/L	0.00350	0.72%
Cu 327.393†	168227.2	0.9837	mg/L	0.00660	0.9837 mg/L	0.00660	0.67%
Fe 238.204†	13055.5	5.823	mg/L	0.0906	5.823 mg/L	0.0906	1.56%
K 766.490†	16594.4	5.420	mg/L	0.0903	5.420 mg/L	0.0903	1.67%
Mg 285.213†	33536.8	4.184	mg/L	0.0704	4.184 mg/L	0.0704	1.68%
Mn 257.610†	11400.1	0.4821	mg/L	0.00838	0.4821 mg/L	0.00838	1.74%
Mo 202.031†	11714.5	0.4802	mg/L	0.00640	0.4802 mg/L	0.00640	1.33%
Na 589.592†	Saturated2						
Ni 231.604†	18059.9	0.4640	mg/L	0.00386	0.4640 mg/L	0.00386	0.83%
Pb 220.353†	5742.1	0.4723	mg/L	0.00777	0.4723 mg/L	0.00777	1.65%
Sb 206.836†	3084.6	0.5007	mg/L	0.00729	0.5007 mg/L	0.00729	1.46%
Se 196.026†	1089.7	0.5680	mg/L	0.00572	0.5680 mg/L	0.00572	1.01%
Sn 189.927†	3934.7	0.4703	mg/L	0.00679	0.4703 mg/L	0.00679	1.44%
Ti 337.279†	8678.3	0.4854	mg/L	0.00861	0.4854 mg/L	0.00861	1.77%
Tl 351.924†	6038.5	0.5307	mg/L	0.00567	0.5307 mg/L	0.00567	1.07%
V 290.880†	106429.5	0.5047	mg/L	0.00325	0.5047 mg/L	0.00325	0.64%
Zn 206.200†	74399.9	1.041	mg/L	0.0088	1.041 mg/L	0.0088	0.84%
Zr 343.823†	191.8	0.0003	mg/L	0.00011	0.0003 mg/L	0.00011	37.03%

Sequence No.: 91

Sample ID: B371175-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 100

Date Collected: 4/18/2024 7:47:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: B371175-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4434362.6	87.72	%	1.389			1.58%
Y radial	168308.2	96.07	%	1.030			1.07%
Ag 328.068†	153413.4	0.5411	mg/L	0.00351	0.5411 mg/L	0.00351	0.65%
Al 396.153†	3931.2	1.036	mg/L	0.0035	1.036 mg/L	0.0035	0.33%
As 188.979†	1615.3	0.5019	mg/L	0.00942	0.5019 mg/L	0.00942	1.88%
B 208.889†	17127.4	0.9259	mg/L	0.00062	0.9259 mg/L	0.00062	0.07%
Ba 233.527†	82187.0	0.5012	mg/L	0.00273	0.5012 mg/L	0.00273	0.54%
Be 313.107†	188925.9	0.4548	mg/L	0.01218	0.4548 mg/L	0.01218	2.68%
Ca 317.933†	26673.9	4.058	mg/L	0.0154	4.058 mg/L	0.0154	0.38%
Cd 228.802†	59101.5	0.5249	mg/L	0.00300	0.5249 mg/L	0.00300	0.57%
Co 228.616†	45789.1	0.4672	mg/L	0.00334	0.4672 mg/L	0.00334	0.71%
Cr 267.716†	61345.3	0.4817	mg/L	0.00408	0.4817 mg/L	0.00408	0.85%
Cu 327.393†	169987.8	0.9940	mg/L	0.00643	0.9940 mg/L	0.00643	0.65%
Fe 238.204†	11511.5	5.134	mg/L	0.0302	5.134 mg/L	0.0302	0.59%

K 766.490†	14489.5	4.732 mg/L	0.0257	4.732 mg/L	0.0257	0.54%
Mg 285.213†	31909.3	3.981 mg/L	0.0169	3.981 mg/L	0.0169	0.42%
Mn 257.610†	11319.2	0.4787 mg/L	0.00164	0.4787 mg/L	0.00164	0.34%
Mo 202.031†	11665.5	0.4782 mg/L	0.00600	0.4782 mg/L	0.00600	1.25%
Na 589.592†	11420734.5	1090 mg/L	3.13	1090 mg/L	3.13	0.29%
Ni 231.604†	18033.3	0.4633 mg/L	0.00434	0.4633 mg/L	0.00434	0.94%
Pb 220.353†	5888.7	0.4843 mg/L	0.00502	0.4843 mg/L	0.00502	1.04%
Sb 206.836†	3097.3	0.5027 mg/L	0.00653	0.5027 mg/L	0.00653	1.30%
Se 196.026†	1099.9	0.5733 mg/L	0.00536	0.5733 mg/L	0.00536	0.93%
Sn 189.927†	3929.0	0.4697 mg/L	0.00371	0.4697 mg/L	0.00371	0.79%
Ti 337.279†	8641.7	0.4833 mg/L	0.00212	0.4833 mg/L	0.00212	0.44%
Tl 351.924†	6141.1	0.5392 mg/L	0.00360	0.5392 mg/L	0.00360	0.67%
V 290.880†	107342.3	0.5091 mg/L	0.00296	0.5091 mg/L	0.00296	0.58%
Zn 206.200†	75352.9	0.9620 mg/L	0.01092	0.9620 mg/L	0.01092	1.14%
Zr 343.823†	184.4	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	13.92%

Sequence No.: 92

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 230

Autosampler Location: 7

Date Collected: 4/18/2024 7:54:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y axial	5182503.8	102.5 %		0.94				0.92%
Y radial	185279.5	105.8 %		1.28				1.21%
Ag 328.068†	886.3	0.0031 mg/L		0.00030	0.0031 mg/L		0.00030	9.48%
Al 396.153†	-6.5	-0.0018 mg/L		0.00456	-0.0018 mg/L		0.00456	257.81%
As 188.979†	0.9	0.0003 mg/L		0.00241	0.0003 mg/L		0.00241	940.32%
B 208.889†	144.8	0.0080 mg/L		0.00016	0.0080 mg/L		0.00016	1.96%
Ba 233.527†	27.4	0.0002 mg/L		0.00004	0.0002 mg/L		0.00004	22.32%
Be 313.107†	-111.4	-0.0003 mg/L		0.00003	-0.0003 mg/L		0.00003	11.18%
Ca 317.933†	28.0	0.0043 mg/L		0.00260	0.0043 mg/L		0.00260	61.01%
Cd 228.802†	12.4	0.0001 mg/L		0.00010	0.0001 mg/L		0.00010	90.33%
Co 228.616†	26.9	0.0003 mg/L		0.00007	0.0003 mg/L		0.00007	23.89%
Cr 267.716†	-0.0	0.0000 mg/L		0.00004	0.0000 mg/L		0.00004	>999.9%
Cu 327.393†	-128.9	-0.0008 mg/L		0.00014	-0.0008 mg/L		0.00014	18.87%
Fe 238.204†	14.9	0.0067 mg/L		0.00118	0.0067 mg/L		0.00118	17.73%
K 766.490†	190.0	0.0621 mg/L		0.01762	0.0621 mg/L		0.01762	28.39%
Mg 285.213†	6.0	0.0008 mg/L		0.00023	0.0008 mg/L		0.00023	30.93%
Mn 257.610†	0.7	0.0000 mg/L		0.00022	0.0000 mg/L		0.00022	720.11%
Mo 202.031†	15.9	0.0007 mg/L		0.00013	0.0007 mg/L		0.00013	20.44%
Na 589.592†	22350.4	2.133 mg/L		0.0267	2.133 mg/L		0.0267	1.25%
Ni 231.604†	-14.7	-0.0004 mg/L		0.00021	-0.0004 mg/L		0.00021	55.06%
Pb 220.353†	-15.9	-0.0013 mg/L		0.00084	-0.0013 mg/L		0.00084	64.36%
Sb 206.836†	-1.3	-0.0002 mg/L		0.00019	-0.0002 mg/L		0.00019	99.74%
Se 196.026†	3.3	0.0017 mg/L		0.00242	0.0017 mg/L		0.00242	139.52%
Sn 189.927†	5.0	0.0006 mg/L		0.00061	0.0006 mg/L		0.00061	102.99%
Ti 337.279†	-10.5	-0.0006 mg/L		0.00008	-0.0006 mg/L		0.00008	14.00%
Tl 351.924†	20.7	0.0018 mg/L		0.00160	0.0018 mg/L		0.00160	88.05%
V 290.880†	649.4	0.0031 mg/L		0.00064	0.0031 mg/L		0.00064	20.67%
Zn 206.200†	56.8	0.0006 mg/L		0.00005	0.0006 mg/L		0.00005	8.78%
Zr 343.823†	14.1	0.0000 mg/L		0.00004	0.0000 mg/L		0.00004	134.08%

Sequence No.: 93

Sample ID: SEQ-IFA@ 23I0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 11

Date Collected: 4/18/2024 7:59:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD

Y axial	4749795.7	93.96 %	0.580			0.62%
Y radial	175979.7	100.4 %	0.88			0.88%
Ag 328.068†	-1074.1	-0.0019 mg/L	0.00002	-0.0019 mg/L	0.00002	1.17%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	908411.2	243.8 mg/L	1.43	243.8 mg/L	1.43	0.59%
QC value within limits for Al 396.153 Recovery = 97.53%						
As 188.979†	-107.4	-0.0015 mg/L	0.00224	-0.0015 mg/L	0.00224	145.52%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	66.0	0.0039 mg/L	0.00035	0.0039 mg/L	0.00035	8.94%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	1578.3	-0.0022 mg/L	0.00002	-0.0022 mg/L	0.00002	0.70%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-63.1	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	9.81%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	1557277.9	236.9 mg/L	1.78	236.9 mg/L	1.78	0.75%
QC value within limits for Ca 317.933 Recovery = 94.76%						
Cd 228.802†	-127.3	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	5.80%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-45.6	-0.0005 mg/L	0.00006	-0.0005 mg/L	0.00006	11.87%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	284.7	0.0022 mg/L	0.00019	0.0022 mg/L	0.00019	8.30%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-937.3	-0.0055 mg/L	0.00006	-0.0055 mg/L	0.00006	1.11%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	200035.1	89.18 mg/L	0.714	89.18 mg/L	0.714	0.80%
QC value within limits for Fe 238.204 Recovery = 89.18%						
K 766.490†	221.7	0.0724 mg/L	0.00246	0.0724 mg/L	0.00246	3.40%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1777793.0	221.6 mg/L	1.57	221.6 mg/L	1.57	0.71%
QC value within limits for Mg 285.213 Recovery = 88.64%						
Mn 257.610†	-78.5	0.0036 mg/L	0.00030	0.0036 mg/L	0.00030	8.23%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-101.4	-0.0042 mg/L	0.00012	-0.0042 mg/L	0.00012	2.93%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	22122.1	2.111 mg/L	0.0595	2.111 mg/L	0.0595	2.82%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni 231.604†	229.9	0.0060 mg/L	0.00045	0.0060 mg/L	0.00045	7.62%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-287.7	0.0037 mg/L	0.00066	0.0037 mg/L	0.00066	17.73%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	18.3	0.0067 mg/L	0.00168	0.0067 mg/L	0.00168	24.94%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	70.1	-0.0289 mg/L	0.00183	-0.0289 mg/L	0.00183	6.33%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-540.7	-0.0646 mg/L	0.00144	-0.0646 mg/L	0.00144	2.23%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	2.6	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	218.92%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-680.8	-0.0019 mg/L	0.00173	-0.0019 mg/L	0.00173	90.74%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	1524.8	0.0008 mg/L	0.00060	0.0008 mg/L	0.00060	77.76%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	280.5	-0.0025 mg/L	0.00004	-0.0025 mg/L	0.00004	1.44%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	1110.4	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	9.66%
QC Failed. Continue with analysis.						

Sequence No.: 94

Sample ID: SEQ-IFB@ 23I0976

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 12

Date Collected: 4/18/2024 8:04:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	4741462.3	93.80 %	1.701			1.81%

Y radial	177037.7	101.1 %	0.25			0.24%
Ag 328.068†	106918.3	0.3816 mg/L	0.00762	0.3816 mg/L	0.00762	2.00%
QC value within limits for Ag 328.068	Recovery = 95.40%					
Al 396.153†	931916.2	250.1 mg/L	0.93	250.1 mg/L	0.93	0.37%
QC value within limits for Al 396.153	Recovery = 100.05%					
As 188.979†	483.9	0.1779 mg/L	0.00242	0.1779 mg/L	0.00242	1.36%
QC value within limits for As 188.979	Recovery = 88.96%					
B 208.889†	52.7	0.0032 mg/L	0.00010	0.0032 mg/L	0.00010	3.29%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	156596.5	0.9438 mg/L	0.01353	0.9438 mg/L	0.01353	1.43%
QC value within limits for Ba 233.527	Recovery = 94.38%					
Be 313.107†	389662.3	0.9383 mg/L	0.00516	0.9383 mg/L	0.00516	0.55%
QC value within limits for Be 313.107	Recovery = 93.83%					
Ca 317.933†	1545477.9	235.1 mg/L	1.26	235.1 mg/L	1.26	0.54%
QC value within limits for Ca 317.933	Recovery = 94.05%					
Cd 228.802†	213134.1	1.928 mg/L	0.0296	1.928 mg/L	0.0296	1.54%
QC value within limits for Cd 228.802	Recovery = 96.40%					
Co 228.616†	85010.1	0.8661 mg/L	0.01295	0.8661 mg/L	0.01295	1.50%
QC value within limits for Co 228.616	Recovery = 86.61%					
Cr 267.716†	115722.5	0.9090 mg/L	0.01185	0.9090 mg/L	0.01185	1.30%
QC value within limits for Cr 267.716	Recovery = 90.90%					
Cu 327.393†	159595.2	0.9332 mg/L	0.01356	0.9332 mg/L	0.01356	1.45%
QC value within limits for Cu 327.393	Recovery = 93.32%					
Fe 238.204†	204781.0	91.30 mg/L	0.530	91.30 mg/L	0.530	0.58%
QC value within limits for Fe 238.204	Recovery = 91.30%					
K 766.490†	140.4	0.0459 mg/L	0.00770	0.0459 mg/L	0.00770	16.79%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	1789033.7	223.0 mg/L	0.89	223.0 mg/L	0.89	0.40%
QC value within limits for Mg 285.213	Recovery = 89.20%					
Mn 257.610†	21356.3	0.9095 mg/L	0.00098	0.9095 mg/L	0.00098	0.11%
QC value within limits for Mn 257.610	Recovery = 90.95%					
Mo 202.031†	-113.7	-0.0047 mg/L	0.00015	-0.0047 mg/L	0.00015	3.25%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	17655.0	1.685 mg/L	0.0170	1.685 mg/L	0.0170	1.01%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	66121.8	1.700 mg/L	0.0253	1.700 mg/L	0.0253	1.49%
QC value within limits for Ni 231.604	Recovery = 85.00%					
Pb 220.353†	766.1	0.0905 mg/L	0.00064	0.0905 mg/L	0.00064	0.70%
QC value within limits for Pb 220.353	Recovery = 90.48%					
Sb 206.836†	6565.7	1.063 mg/L	0.0162	1.063 mg/L	0.0162	1.53%
QC value within limits for Sb 206.836	Recovery = 88.56%					
Se 196.026†	1000.7	0.4567 mg/L	0.01234	0.4567 mg/L	0.01234	2.70%
QC value within limits for Se 196.026	Recovery = 91.35%					
Sn 189.927†	-543.1	-0.0649 mg/L	0.00104	-0.0649 mg/L	0.00104	1.60%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	-2.1	-0.0001 mg/L	0.00031	-0.0001 mg/L	0.00031	266.33%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	1661.6	0.2012 mg/L	0.00421	0.2012 mg/L	0.00421	2.09%
QC value within limits for Tl 351.924	Recovery = 100.62%					
V 290.880†	202932.6	0.9565 mg/L	0.01376	0.9565 mg/L	0.01376	1.44%
QC value within limits for V 290.880	Recovery = 95.65%					
Zn 206.200†	124774.2	1.744 mg/L	0.0297	1.744 mg/L	0.0297	1.71%
QC value within limits for Zn 206.200	Recovery = 87.22%					
Zr 343.823†	1111.6	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	13.54%
All analyte(s) passed QC.						

Sequence No.: 95

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/18/2024 8:10:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5077676.7	100.4 %	0.60			0.59%
Y radial	183266.9	104.6 %	1.52			1.45%

Ag 328.068†	652999.1	2.274 mg/L	0.0163	2.274 mg/L	0.0163	0.72%
QC value within limits for Ag 328.068 Recovery = 90.96%						
Al 396.153†	35929.2	9.390 mg/L	0.0296	9.390 mg/L	0.0296	0.32%
QC value within limits for Al 396.153 Recovery = 93.90%						
As 188.979†	15110.0	4.682 mg/L	0.0315	4.682 mg/L	0.0315	0.67%
QC value within limits for As 188.979 Recovery = 93.63%						
B 208.889†	84476.9	4.447 mg/L	0.0058	4.447 mg/L	0.0058	0.13%
QC value less than the lower limit for B 208.889 Recovery = 88.93%						
Ba 233.527†	785431.1	4.795 mg/L	0.0041	4.795 mg/L	0.0041	0.08%
QC value within limits for Ba 233.527 Recovery = 95.91%						
Be 313.107†	1968241.0	4.740 mg/L	0.1105	4.740 mg/L	0.1105	2.33%
QC value within limits for Be 313.107 Recovery = 94.80%						
Ca 317.933†	62812.1	9.556 mg/L	0.0650	9.556 mg/L	0.0650	0.68%
QC value within limits for Ca 317.933 Recovery = 95.56%						
Cd 228.802†	534298.8	4.743 mg/L	0.0076	4.743 mg/L	0.0076	0.16%
QC value within limits for Cd 228.802 Recovery = 94.87%						
Co 228.616†	467523.5	4.770 mg/L	0.0060	4.770 mg/L	0.0060	0.13%
QC value within limits for Co 228.616 Recovery = 95.41%						
Cr 267.716†	605362.5	4.754 mg/L	0.0036	4.754 mg/L	0.0036	0.08%
QC value within limits for Cr 267.716 Recovery = 95.08%						
Cu 327.393†	789494.9	4.634 mg/L	0.0080	4.634 mg/L	0.0080	0.17%
QC value within limits for Cu 327.393 Recovery = 92.67%						
Fe 238.204†	10353.1	4.641 mg/L	0.0333	4.641 mg/L	0.0333	0.72%
QC value within limits for Fe 238.204 Recovery = 92.82%						
K 766.490†	28385.1	9.271 mg/L	0.0064	9.271 mg/L	0.0064	0.07%
QC value within limits for K 766.490 Recovery = 92.71%						
Mg 285.213†	76597.8	9.524 mg/L	0.0316	9.524 mg/L	0.0316	0.33%
QC value within limits for Mg 285.213 Recovery = 95.24%						
Mn 257.610†	109557.9	4.629 mg/L	0.0219	4.629 mg/L	0.0219	0.47%
QC value within limits for Mn 257.610 Recovery = 92.59%						
Mo 202.031†	115816.3	4.747 mg/L	0.0051	4.747 mg/L	0.0051	0.11%
QC value within limits for Mo 202.031 Recovery = 94.95%						
Na 589.592†	111965.3	10.69 mg/L	0.244	10.69 mg/L	0.244	2.29%
QC value within limits for Na 589.592 Recovery = 106.85%						
Ni 231.604†	184468.5	4.742 mg/L	0.0054	4.742 mg/L	0.0054	0.11%
QC value within limits for Ni 231.604 Recovery = 94.83%						
Pb 220.353†	57576.3	4.748 mg/L	0.0249	4.748 mg/L	0.0249	0.53%
QC value within limits for Pb 220.353 Recovery = 94.96%						
Sb 206.836†	28754.7	4.667 mg/L	0.0439	4.667 mg/L	0.0439	0.94%
QC value within limits for Sb 206.836 Recovery = 93.34%						
Se 196.026†	9093.9	4.749 mg/L	0.0395	4.749 mg/L	0.0395	0.83%
QC value within limits for Se 196.026 Recovery = 94.97%						
Sn 189.927†	39906.4	4.765 mg/L	0.0247	4.765 mg/L	0.0247	0.52%
QC value within limits for Sn 189.927 Recovery = 95.31%						
Ti 337.279†	83634.9	4.675 mg/L	0.0118	4.675 mg/L	0.0118	0.25%
QC value within limits for Ti 337.279 Recovery = 93.50%						
Tl 351.924†	26742.7	2.310 mg/L	0.0304	2.310 mg/L	0.0304	1.32%
QC value within limits for Tl 351.924 Recovery = 92.42%						
V 290.880†	1024443.7	4.862 mg/L	0.0032	4.862 mg/L	0.0032	0.06%
QC value within limits for V 290.880 Recovery = 97.24%						
Zn 206.200†	341752.3	4.806 mg/L	0.0131	4.806 mg/L	0.0131	0.27%
QC value within limits for Zn 206.200 Recovery = 96.11%						
Zr 343.823†	2058919.6	4.781 mg/L	0.0041	4.781 mg/L	0.0041	0.09%
QC Failed. Retry.						

Sequence No.: 96

Sample ID: SEQ-CCV@ 23J0975

Analyst:

Initial Sample Wt:

Dilution:

Wash Time: 110

Autosampler Location: 5

Date Collected: 4/18/2024 8:12:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y axial	5105467.4	101.0 %	0.35			0.34%
Y radial	182839.6	104.4 %	1.07			1.03%
Ag 328.068†	644112.7	2.243 mg/L	0.0163	2.243 mg/L	0.0163	0.73%

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	5206149.9	103.0	%	1.89				1.84%
Y radial	183829.1	104.9	%	0.24				0.23%
Ag 328.068†	1242.1	0.0044	mg/L	0.00044	0.0044	mg/L	0.00044	9.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								

Al 396.153†	4.9	0.0013 mg/L	0.00465	0.0013 mg/L	0.00465	370.59%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	1.4	0.0004 mg/L	0.00334	0.0004 mg/L	0.00334	820.20%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	258.6	0.0142 mg/L	0.00082	0.0142 mg/L	0.00082	5.75%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	30.7	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	13.43%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-105.6	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	5.51%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	36.3	0.0055 mg/L	0.00010	0.0055 mg/L	0.00010	1.82%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	15.8	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	67.32%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	20.8	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	39.98%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-9.1	-0.0001 mg/L	0.00032	-0.0001 mg/L	0.00032	449.41%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-53.3	-0.0003 mg/L	0.00015	-0.0003 mg/L	0.00015	48.06%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	18.1	0.0081 mg/L	0.00233	0.0081 mg/L	0.00233	28.86%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	27.9	0.0091 mg/L	0.00649	0.0091 mg/L	0.00649	71.22%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	8.1	0.0010 mg/L	0.00048	0.0010 mg/L	0.00048	47.32%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-3.0	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	13.56%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	45.9	0.0019 mg/L	0.00022	0.0019 mg/L	0.00022	11.68%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	10893.9	1.040 mg/L	0.0139	1.040 mg/L	0.0139	1.33%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-14.5	-0.0004 mg/L	0.00017	-0.0004 mg/L	0.00017	45.42%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	16.2	0.0013 mg/L	0.00040	0.0013 mg/L	0.00040	29.74%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	1.1	0.0002 mg/L	0.00068	0.0002 mg/L	0.00068	362.42%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.5	0.0024 mg/L	0.00167	0.0024 mg/L	0.00167	71.13%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	3.2	0.0004 mg/L	0.00052	0.0004 mg/L	0.00052	135.87%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-8.3	-0.0005 mg/L	0.00019	-0.0005 mg/L	0.00019	42.07%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	5.9	0.0005 mg/L	0.00301	0.0005 mg/L	0.00301	583.98%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	441.0	0.0021 mg/L	0.00087	0.0021 mg/L	0.00087	41.73%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	162.8	0.0022 mg/L	0.00013	0.0022 mg/L	0.00013	6.15%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-96.1	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	13.77%

All analyte(s) passed QC.

MERCURY

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-22B-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-03

Sampled: 04/02/24 09:10

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:27	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-22A-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-04

Sampled: 04/02/24 09:24

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:30	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-13B-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-05

Sampled: 04/02/24 11:46

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:32	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-13A-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-06

Sampled: 04/02/24 12:38

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:35	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-9B-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-07

Sampled: 04/02/24 14:25

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:37	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-9-04022024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-08
Sampled:	04/02/24 14:42		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:40	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-23A-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-09

Sampled: 04/02/24 15:47

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:42	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-23B-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-10

Sampled: 04/02/24 16:30

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:45	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-17-04032024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-11

Sampled: 04/03/24 08:19

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 19:47	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-15B-04032024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-12

Sampled: 04/03/24 09:36

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 12:58	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-15A-04032024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-13

Sampled: 04/03/24 09:40

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 13:07	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-18-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-14
Sampled:	04/03/24 10:34		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 13:10	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-2-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-15
Sampled:	04/03/24 11:35		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 13:12	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-1-04032024

Laboratory:	Pace New England	SDG:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Ground Water	Laboratory ID:	24D0735-16
Sampled:	04/03/24 12:45		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 13:15	SW-846 74704

1 - FORM I
ANALYSIS DATA SHEET
152033-SM-MW-FD-04022024

Laboratory: Pace New EnglandSDG: 24D0735

Client: NYDEC_EA Engineering, Science & Tech. - NYProject: DW_Dzus Fastener Co. Inc.

Matrix: Ground WaterLaboratory ID: 24D0735-17

Sampled: 04/02/24 00:00

% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury (dissolved)		0.00012	0.00020	1		B371643	04/17/24 13:18	SW-846 74704

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 7470A

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	HG3	Calibration:	UNASSIGNED
		Sequence:	S103292

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103292-ICV1	Mercury (dissolved)	4.00	4.08	102	µg/L	+/- 20.00%
S103292-CCV1	Mercury (dissolved)	5.00	5.23	105	µg/L	+/- 20.00%
S103292-CCV2	Mercury (dissolved)	5.00	5.47	109	µg/L	+/- 20.00%
S103292-CCV3	Mercury (dissolved)	5.00	5.09	102	µg/L	+/- 20.00%
S103292-CCV4	Mercury (dissolved)	5.00	5.10	102	µg/L	+/- 20.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 7470A

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Instrument ID:	HG3	Calibration:	UNASSIGNED
		Sequence:	S103353

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S103353-ICV1	Mercury (dissolved)	4.00	4.17	104	µg/L	+/- 20.00%
S103353-CCV1	Mercury (dissolved)	5.00	4.98	99.7	µg/L	+/- 20.00%
S103353-CCV2	Mercury (dissolved)	5.00	5.00	100	µg/L	+/- 20.00%
S103353-CCV3	Mercury (dissolved)	5.00	4.84	96.7	µg/L	+/- 20.00%
S103353-CCV4	Mercury (dissolved)	5.00	4.98	99.6	µg/L	+/- 20.00%
S103353-CCV5	Mercury (dissolved)	5.00	4.80	96.1	µg/L	+/- 20.00%
S103353-CCV6	Mercury (dissolved)	5.00	4.76	95.2	µg/L	+/- 20.00%

FORM 3 - Blank Summary

SW-846 7470A

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: HG3 Calibration: UNASSIGNED
Sequence: S103292

Lab Sample ID	Analyte	Found	Units	RL	C
S103292-ICB1	Mercury (dissolved)		µg/L	0.20	U
S103292-CCB1	Mercury (dissolved)		µg/L	0.20	U
S103292-CCB2	Mercury (dissolved)		µg/L	0.20	U
S103292-CCB3	Mercury (dissolved)		µg/L	0.20	U

FORM 3 - Blank Summary

SW-846 7470A

Laboratory: Pace New England Work Order: 24D0735
Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
Instrument ID: HG3 Calibration: UNASSIGNED
Sequence: S103353

Lab Sample ID	Analyte	Found	Units	RL	C
S103353-ICB1	Mercury (dissolved)		µg/L	0.20	U
S103353-CCB1	Mercury (dissolved)		µg/L	0.20	U
S103353-CCB2	Mercury (dissolved)		µg/L	0.20	U
S103353-CCB3	Mercury (dissolved)		µg/L	0.20	U
B371643-BLK1	Mercury (dissolved)		mg/L	0.00020	U
S103353-CCB4	Mercury (dissolved)		µg/L	0.20	U
S103353-CCB5	Mercury (dissolved)		µg/L	0.20	U

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

152033-SM-MW-22A-04022024

Laboratory: Pace New England

Client: NYDEC_EA Engineering, Science & Tech. - NY

Matrix: Water

Batch: B371643

% Solids:

Column:

Work Order: 24D0735

Project: DW_Dzus Fastener Co. Inc.

Analysis: SW-846 7470A

Preparation: SW-846 7470A Dissolved

Laboratory ID: B371643-MS1

Sample Lab ID: 24D0735-04

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Mercury (dissolved)	0.00402	ND	0.00396	98.5	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Mercury (dissolved)	0.00402	0.00400	99.5	1.01	20	75 - 125

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 7470A

Laboratory:	Pace New England	Work Order:	24D0735
Client:	NYDEC_EA Engineering, Science & Tech. - NY	Project:	DW_Dzus Fastener Co. Inc.
Matrix:	Water	Preparation:	SW-846 7470A Dissolved
Batch:	B371643	Laboratory ID:	B371643-BS1
Column:		Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Mercury (dissolved)	0.00402	0.00407	101	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Mercury (dissolved)	0.00402	0.00408	101	0.238	20	80 - 120

PREPARATION BATCH SUMMARY

SW-846 7470A

Laboratory: Pace New England Work Order: 24D0735
 Client: NYDEC_EA Engineering, Science & Tech. - NY Project: DW_Dzus Fastener Co. Inc.
 Batch: B371643 Batch Matrix: Water Preparation: SW-846 7470A Dissolved

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
152033-SM-MW-22B-04022024	24D0735-03	04/16/24 12:47	10.00	10.00
152033-SM-MW-22A-04022024	24D0735-04	04/16/24 12:47	10.00	10.00
152033-SM-MW-13B-04022024	24D0735-05	04/16/24 12:47	10.00	10.00
152033-SM-MW-13A-04022024	24D0735-06	04/16/24 12:47	10.00	10.00
152033-SM-MW-9B-04022024	24D0735-07	04/16/24 12:47	10.00	10.00
152033-SM-MW-9-04022024	24D0735-08	04/16/24 12:47	10.00	10.00
152033-SM-MW-23A-04022024	24D0735-09	04/16/24 12:47	10.00	10.00
152033-SM-MW-23B-04022024	24D0735-10	04/16/24 12:47	10.00	10.00
152033-SM-MW-17-04032024	24D0735-11	04/16/24 12:47	10.00	10.00
152033-SM-MW-15B-04032024	24D0735-12	04/16/24 12:47	10.00	10.00
152033-SM-MW-15A-04032024	24D0735-13	04/16/24 12:47	10.00	10.00
152033-SM-MW-18-04032024	24D0735-14	04/16/24 12:47	10.00	10.00
152033-SM-MW-2-04032024	24D0735-15	04/16/24 12:47	10.00	10.00
152033-SM-MW-1-04032024	24D0735-16	04/16/24 12:47	10.00	10.00
152033-SM-MW-FD-04022024	24D0735-17	04/16/24 12:47	10.00	10.00
Blank	B371643-BLK1	04/16/24 12:47	10.00	10.00
LCS	B371643-BS1	04/16/24 12:47	10.00	10.00
LCS Dup	B371643-BSD1	04/16/24 12:47	10.00	10.00
152033-SM-MW-22A-04022024	B371643-MS1	04/16/24 12:47	10.00	10.00
152033-SM-MW-22A-04022024	B371643-MSD1	04/16/24 12:47	10.00	10.00

S103292

Instrument: HG3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103292-ICV1	QC		1		24D0429		
S103292-CCV1	QC		2		24D0428		
S103292-ICB1	QC		3		24D0430		
S103292-CCV2	QC		4		24D0428		
S103292-CCB1	QC		5		24D0430		
24D0735-12	Mercury 7470 Dissolved	A	6				CAT B - Report to MDL FIELD F
S103292-CCV3	QC		7		24D0428		
S103292-CCB2	QC		8		24D0430		
24D0735-13	Mercury 7470 Dissolved	A	9				CAT B - Report to MDL FIELD F
24D0735-14	Mercury 7470 Dissolved	A	10				CAT B - Report to MDL FIELD F
24D0735-15	Mercury 7470 Dissolved	B	11				CAT B - Report to MDL FIELD F
24D0735-16	Mercury 7470 Dissolved	A	12				CAT B - Report to MDL FIELD F
24D0735-17	Mercury 7470 Dissolved	B	13				CAT B - Report to MDL FIELD F
S103292-CCV4	QC		14		24D0428		
S103292-CCB3	QC		15		24D0430		

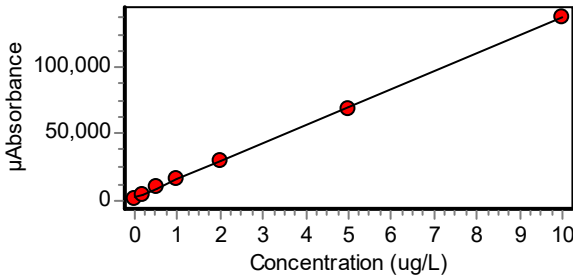
Samples Loaded By

Date

Data Processed By

Date

Results

Sample Name		Type		Date/Time		Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank		STD		04/17/24 08:56:04 am		0.0000	1096	0.35			1.0000	N/A
Replicates	1090.7	1099.0	1098.5	1097.3								
Standard #1 (0.2 ppb)		STD		04/17/24 08:58:36 am		0.2000	3585	1.05	-39.32%		1.0000	N/A
Replicates	3545.1	3560.2	3612.4	3621.4								
Standard #2 (0.5 ppb)		STD		04/17/24 09:01:09 am		0.5000	10460	0.73	26.52%		1.0000	N/A
Replicates	10351.5	10465.2	10503.4	10520.7								
Standard #3 (1 ppb)		STD		04/17/24 09:03:41 am		1.0000	15852	1.09	3.35%		1.0000	N/A
Replicates	15629.7	15811.8	15940.0	16028.3								
Standard #4 (2 ppb)		STD		04/17/24 09:06:14 am		2.0000	29326	1.13	1.77%		1.0000	N/A
Replicates	28911.4	29218.1	29507.4	29666.1								
Standard #5 (5 ppb)		STD		04/17/24 09:08:48 am		5.0000	68020	1.88	-1.75%		1.0000	N/A
Replicates	66490.8	67558.2	68589.7	69440.2								
Standard #6 (10 ppb)		STD		04/17/24 09:13:16 am		10.0000	136819	1.09	0.28%		1.0000	N/A
Replicates	134948.4	136390.1	137535.4	138403.9								
Calibration												
Equation:	Abs = 13448.693x + 1952.595											
R2:	0.99952	RSE:	23.80%									
SEE:	1182.3330											
Flags:	C											
										APPROVED By AMV at 2:02 pm, 4/17/24		
SEQ-ICV		ICV		04/17/24 09:41:46 am		4.0795	56816	1.25			1.0000	101.99
Replicates	55978.1	56582.0	57156.5	57547.3								
SEQ-CCV@INITIAL		CCV		04/17/24 09:45:46 am		5.2337	72339	1.17			1.0000	104.67
Replicates	71307.4	72118.0	72702.0	73228.0								
SEQ-ICB		ICB		04/17/24 09:49:57 am		-0.0402	1412	2.74			1.0000	N/A
Replicates	1412.3	1400.1	1404.3	1433.3								
B371639-BLK1		UNK		04/17/24 09:52:29 am		-0.0460	1334	8.38			1.0000	N/A
Replicates	1279.8	1300.1	1372.6	1383.8								
B371639-BS1		UNK		04/17/24 09:55:00 am		5.3042	73287	1.67			1.0000	N/A
Replicates	71689.7	73094.7	73966.2	74397.5								
B371639-BS2		UNK		04/17/24 09:59:19 am		4.9055	67926	3.67			1.0000	N/A
Replicates	64956.5	67170.0	68989.8	70586.8								
SEE RR ON 0417B24 AMV 4/17/24												

4/17/2024 2:00:55 PM

0417A24.wszf

Page 1 of 5

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
B371639-BS3	UNK	04/17/24 10:03:19 am	5.2974	73196	0.62			1.0000	N/A
Replicates		72581.3 73169.6 73536.1 73495.3							
B371639-BS4	UNK	04/17/24 10:07:23 am	5.2160	72101	2.89			1.0000	N/A
Replicates		69499.3 71610.0 73137.2 74156.0							
B371632-BLK1	UNK	04/17/24 10:11:29 am	-0.0016	1931	114.18			1.0000	N/A
Replicates		1907.3 1915.3 1958.0 1945.3							
B371632-BS1	UNK	04/17/24 10:14:02 am	5.3536	73951	2.48			1.0000	N/A
Replicates		71660.6 73519.7 74836.9 75788.7							
B371632-BSD1	UNK	04/17/24 10:18:31 am	5.1788	71600	1.44			1.0000	N/A
Replicates		70300.7 71376.9 72119.2 72604.4							
B371632-MS1	UNK	04/17/24 10:22:26 am	10.3930	141719	3.02	O		1.0000	N/A
Replicates		136467.0 140493.3 143677.8 146236.1							
24D1075-01@TCLP	UNK	04/17/24 10:27:06 am	0.3839	7115	2.03			1.0000	N/A
Replicates		6987.3 7088.4 7147.6 7237.1							
SEQ-CCV	CCV	04/17/24 10:29:40 am	5.0488	69852	2.17			1.0000	100.98
Replicates		68086.0 69338.6 70470.6 71512.1							
SEQ-CCB	CCB	04/17/24 10:33:49 am	-0.0623	1115	2.37			1.0000	N/A
Replicates		1091.6 1106.3 1124.6 1136.6							
24D1075-02@TCLP	UNK	04/17/24 10:36:22 am	-0.0426	1380	6.50			1.0000	N/A
Replicates		1344.4 1364.4 1380.4 1431.4							
24D1075-03@TCLP	UNK	04/17/24 10:38:55 am	5.6653	78143	0.65			1.0000	N/A
Replicates		77464.9 78103.5 78438.2 78566.0							
24D1075-07@TCLP	UNK	04/17/24 10:43:14 am	1.4536	21502	1.19			1.0000	N/A
Replicates		21213.6 21424.8 21628.8 21739.8							
B371638-BLK1	UNK	04/17/24 10:45:45 am	-0.0391	1427	2.16			1.0000	N/A
Replicates		1423.4 1416.3 1442.8 1424.1							
B371638-BS1	UNK	04/17/24 10:48:16 am	4.3939	61045	1.39			1.0000	N/A
Replicates		60017.5 60824.2 61416.2 61923.4							
B371638-BSD1	UNK	04/17/24 10:52:15 am	4.4907	62347	1.24			1.0000	N/A
Replicates		61414.6 62139.2 62685.7 63149.4							
B371638-MS1	UNK	04/17/24 10:56:25 am	5.1935	71798	1.25			1.0000	N/A
Replicates		70718.9 71537.4 72194.4 72741.9							
24D1075-01@SPLP	UNK	04/17/24 11:00:42 am	0.4319	7761	0.78			1.0000	N/A
Replicates		7725.8 7736.8 7754.5 7827.0							
24D1075-02@SPLP	UNK	04/17/24 11:03:14 am	0.0850	3096	1.80			1.0000	N/A
Replicates		3069.3 3098.3 3097.6 3119.6							
24D1075-03@SPLP	UNK	04/17/24 11:05:47 am	0.4591	8127	0.51			1.0000	N/A
Replicates		8164.9 8134.2 8119.5 8088.7							

SEE RR ON 0417B24 AMV 4/17/24

APPROVED
By AMV at 2:02 pm, 4/17/24APPROVED
By AMV at 2:02 pm, 4/17/24

SEE RR ON 0417B24 AMV 4/17/24

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
SEQ-CCV	CCV	04/17/24 11:08:20 am	5.4259	74924	1.42		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	108.52
Replicates		73635.8 74633.3 75382.3 76044.0							
SEQ-CCB	CCB	04/17/24 11:12:16 am	-0.0474	1316	3.13		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	N/A
Replicates		1299.8 1343.1 1302.1 1317.4							
24D1075-07@SPLP	UNK	04/17/24 11:14:49 am	3.7302	52119	0.75			1.0000	N/A
Replicates		51619.4 52041.7 52351.2 52463.5							
B371640-BLK1	UNK	04/17/24 11:18:39 am	-0.0356	1474	4.11			1.0000	N/A
Replicates		1463.6 1461.9 1466.4 1503.2							
B371640-BS1	UNK	04/17/24 11:21:12 am	5.1423	71109	1.37			1.0000	N/A
Replicates		69901.2 70862.9 71591.7 72082.2							
B371640-BSD1	UNK	04/17/24 11:25:05 am	4.7447	65763	1.23			1.0000	N/A
Replicates		64778.8 65532.2 66159.7 66582.0							
B371640-MS1	UNK	04/17/24 11:29:49 am	4.7091	65284	1.18			1.0000	N/A
Replicates		64363.5 65067.5 65603.5 66102.2							
24D1206-01	UNK	04/17/24 11:34:02 am	0.8705	13660	3.48			1.0000	N/A
Replicates		14106.6 13843.6 13525.8 13162.3							
24D1206-02	UNK	04/17/24 11:36:33 am	0.1009	3310	3.28			1.0000	N/A
Replicates		3255.2 3291.2 3347.2 3344.7							
24D1206-03	UNK	04/17/24 11:39:05 am	-0.0430	1374	4.07			1.0000	N/A
Replicates		1348.2 1362.1 1401.3 1384.3							
B371641-BLK1	UNK	04/17/24 11:41:37 am	-0.1380	97	1.14			1.0000	N/A
Replicates		102.6 65.8 114.6 103.3							
B371641-BS1	UNK	04/17/24 11:44:09 am	4.6414	64373	1.25			1.0000	N/A
Replicates		63397.3 64159.8 64710.6 65223.6							
SEQ-CCV	CCV	04/17/24 11:48:11 am	5.1549	71279	2.22		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	103.10
Replicates		69416.0 70762.5 71952.2 72986.2							
SEQ-CCB	CCB	04/17/24 11:52:34 am	-0.0602	1143	1.34		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	N/A
Replicates		1142.4 1137.3 1133.8 1158.3							
B371641-BSD1	UNK	04/17/24 11:55:06 am	4.5446	63072	1.21			1.0000	N/A
Replicates		62163.3 62843.7 63397.5 63882.7							
B371641-MS1	UNK	04/17/24 11:59:05 am	5.5403	76462	1.24			1.0000	N/A
Replicates		75324.6 76175.3 76893.3 77456.3							
24D1491-01	UNK	04/17/24 12:03:23 pm	0.0279	2327	4.33			1.0000	N/A
Replicates		2308.2 2326.1 2347.9 2326.9							
24D1492-01	UNK	04/17/24 12:05:55 pm	-0.0483	1303	1.57			1.0000	N/A
Replicates		1291.2 1302.6 1316.1 1302.6							
24D1628-01	UNK	04/17/24 12:08:28 pm	1.3284	19818	0.68			1.0000	N/A
Replicates		19671.5 19769.6 19888.9 19942.9							

SEE RR ON 0417B24 AMV 4/17/24

SEE RR ON 0417B24 AMV 4/17/24

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
B371643-BLK1	UNK	04/17/24 12:11:01 pm	-0.1407	60	0.37			1.0000	N/A
Replicates		69.3 57.9 61.4 52.7							
B371643-BS1	UNK	04/17/24 12:13:33 pm	4.3801	60859	1.29			1.0000	N/A
Replicates		59935.2 60623.1 61172.1 61706.1							
B371643-BSD1	UNK	04/17/24 12:17:31 pm	5.0366	69688	1.44			1.0000	N/A
Replicates		68437.1 69448.4 70176.7 70688.7							
B371643-MS1	UNK	04/17/24 12:21:22 pm	4.1700	58034	1.47			1.0000	N/A
Replicates		57030.7 57773.6 58378.1 58953.1							
B371643-MSD1	UNK	04/17/24 12:25:16 pm	5.2249	72221	0.31			1.0000	N/A
Replicates		71918.7 72217.6 72342.1 72405.9							
SEQ-CCV	CCV	04/17/24 12:29:18 pm	5.4681	75492	1.38		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	109.36
Replicates		74232.7 75190.1 75946.9 76596.6							
SEQ-CCB	CCB	04/17/24 12:33:22 pm	-0.0607	1136	2.49		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	N/A
Replicates		1141.3 1107.9 1140.4 1156.1							
24D0735-03	UNK	04/17/24 12:35:54 pm	-0.1400	69	1.21			1.0000	N/A
Replicates		77.9 45.5 96.8 56.5							
24D0735-04	UNK	04/17/24 12:38:26 pm	-0.1413	52	0.71			1.0000	N/A
Replicates		53.3 32.2 59.9 61.4							
24D0735-05	UNK	04/17/24 12:40:58 pm	-0.1396	75	0.90			1.0000	N/A
Replicates		85.6 88.4 76.2 51.2							
24D0735-06	UNK	04/17/24 12:43:31 pm	-0.1388	87	0.48			1.0000	N/A
Replicates		91.0 84.9 95.7 74.9							
24D0735-07	UNK	04/17/24 12:46:03 pm	-0.1416	48	0.73			1.0000	N/A
Replicates		55.5 27.5 57.0 53.2							
24D0735-08	UNK	04/17/24 12:48:36 pm	-0.1355	130	0.95			1.0000	N/A
Replicates		114.9 115.8 147.0 143.0							
24D0735-09	UNK	04/17/24 12:51:09 pm	-0.1386	89	0.10			1.0000	N/A
Replicates		86.6 90.7 88.2 89.9							
24D0735-10	UNK	04/17/24 12:53:42 pm	-0.1374	104	1.03			1.0000	N/A
Replicates		106.7 119.0 115.0 76.7							
24D0735-11	UNK	04/17/24 12:56:14 pm	-0.1375	103	0.73			1.0000	N/A
Replicates		89.6 104.4 121.7 98.2							
24D0735-12	UNK	04/17/24 12:58:46 pm	-0.1381	96	0.60			1.0000	N/A
Replicates		96.9 110.3 92.5 83.5							
SEQ-CCV	CCV	04/17/24 01:01:19 pm	5.0931	70449	2.08		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	101.86
Replicates		68774.1 69900.0 71048.5 72071.7							
SEQ-CCB	CCB	04/17/24 01:05:21 pm	-0.0624	1113	0.99		APPROVED By AMV at 2:02 pm, 4/17/24	1.0000	N/A
Replicates		1105.4 1124.5 1112.5 1109.0							

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	DF	% Recovery
24D0735-13	UNK	04/17/24 01:07:53 pm	-0.1404	65	0.64			1.0000	N/A
Replicates		60.1 81.4 53.2 63.7							
24D0735-14	UNK	04/17/24 01:10:25 pm	-0.1400	69	0.55			1.0000	N/A
Replicates		69.2 55.2 72.2 80.2							
24D0735-15	UNK	04/17/24 01:12:57 pm	-0.1403	65	0.67			1.0000	N/A
Replicates		79.7 56.0 53.5 72.2							
24D0735-16	UNK	04/17/24 01:15:29 pm	-0.1363	119	1.19			1.0000	N/A
Replicates		131.1 112.4 91.7 141.2							
24D0735-17	UNK	04/17/24 01:18:01 pm	-0.1350	137	1.01			1.0000	N/A
Replicates		155.6 145.9 134.4 112.9							
B371632-MS1@2X	UNK	04/17/24 01:20:33 pm	6.1809	85077	0.66			1.0000	N/A
Replicates		84345.6 84978.5 85381.2 85604.0							
SEQ-CCV	CCV	04/17/24 01:24:44 pm	5.6878	78447	1.36		Q	1.0000	113.76
Replicates		77153.0 78147.1 78933.6 79553.1							
SEE RR AMV 4/17/24									
SEQ-CCV	CCV	04/17/24 01:30:29 pm	5.0956	70482	2.30			1.0000	101.91
Replicates		68621.1 69903.0 71114.5 72290.0							
SEQ-CCB	CCB	04/17/24 01:34:47 pm	-0.0841	821	0.71			1.0000	N/A
Replicates		827.7 817.9 811.4 827.6							

APPROVED
By AMV at 2:02 pm, 4/17/24

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S103353

Instrument: HG3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S103353-ICV1	QC		1		24D0429		
S103353-CCV1	QC		2		24D0428		
S103353-ICB1	QC		3		24D0430		
B371639-BS1	QC		4				BRP B370963-SRM1
B371639-BS2	QC		5				BRP B370963-SRM2
B371639-BS3	QC		6				BRP B370963-SRM3
B371639-BS4	QC		7				BRP B370963-SRM4
B371632-BS1	QC		8				B371039-BLK1
B371632-BSD1	QC		9				B371039-BLK1
B371638-MS1	QC		10				
B371640-BSD1	QC		11				B371164-BLK1
B371643-BSD1	QC		12				
B371643-MSD1	QC		13				
S103353-CCV2	QC		14		24D0428		
S103353-CCB1	QC		15		24D0430		
B371639-BLK1	QC		16				B370963-BLK1
B371632-BLK1	QC		17				B371039-BLK1
B371632-MS1	QC		18				
24D1075-01	Mercury 7470/7471 TCLP	A 01	19				MA-RCS-1 limits required- limite
24D1075-02	Mercury 7470/7471 TCLP	A 01	20				MA-RCS-1 limits required- limite
24D1075-03	Mercury 7470/7471 TCLP	A 01	21				MA-RCS-1 limits required- limite
24D1075-07	Mercury 7470/7471 TCLP	A 01	22				MA-RCS-1 limits required- limite
B371638-BLK1	QC		23				B371038-BLK1
B371638-BS1	QC		24				B371038-BLK1
S103353-CCV3	QC		25		24D0428		
S103353-CCB2	QC		26		24D0430		
B371638-BSD1	QC		27				B371038-BLK1
24D1075-01	Mercury 7470/7471 SPLP	A 02	28				MA-RCS-1 limits required- limite
24D1075-02	Mercury 7470/7471 SPLP	A 02	29				MA-RCS-1 limits required- limite
24D1075-03	Mercury 7470/7471 SPLP	A 02	30				MA-RCS-1 limits required- limite
24D1075-07	Mercury 7470/7471 SPLP	A 03	31				MA-RCS-1 limits required- limite
B371640-BLK1	QC		32				B371164-BLK1
B371640-BS1	QC		33				B371164-BLK1

Samples Loaded By

Date

Data Processed By

Date

S103353

Instrument: HG3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
B371640-MS1	QC		34				
24D1206-01	Mercury 7470/7471 TCLP	A 01	35				
24D1206-02	Mercury 7470/7471 TCLP	A 01	36				
S103353-CCV4	QC		37		24D0428		
S103353-CCB3	QC		38		24D0430		
24D1206-03	Mercury 7470/7471 TCLP	A 01	39				
B371641-BLK1	QC		40				B371453-BLK1
B371641-BS1	QC		41				B371453-BLK1
B371641-BSD1	QC		42				B371453-BLK1
B371641-MS1	QC		43				
24D1491-01	Mercury 7470/7471 TCLP	A 01	44				
24D1492-01	Mercury 7470/7471 TCLP	A 01	45				
24D1628-01	Mercury 7470/7471 TCLP	A 01	46				
B371643-BLK1	QC		47				
B371643-BS1	QC		48				
S103353-CCV5	QC		49		24D0428		
S103353-CCB4	QC		50		24D0430		
B371643-MS1	QC		51				
24D0735-03	Mercury 7470 Dissolved	B	52				CAT B - Report to MDL FIELD F
24D0735-04	Mercury 7470 Dissolved	B	53				CAT B - Report to MDL FIELD F
24D0735-05	Mercury 7470 Dissolved	B	54				CAT B - Report to MDL FIELD F
24D0735-06	Mercury 7470 Dissolved	B	55				CAT B - Report to MDL FIELD F
24D0735-07	Mercury 7470 Dissolved	A	56				CAT B - Report to MDL FIELD F
24D0735-08	Mercury 7470 Dissolved	B	57				CAT B - Report to MDL FIELD F
24D0735-09	Mercury 7470 Dissolved	B	58				CAT B - Report to MDL FIELD F
24D0735-10	Mercury 7470 Dissolved	B	59				CAT B - Report to MDL FIELD F
24D0735-11	Mercury 7470 Dissolved	A	60				CAT B - Report to MDL FIELD F
S103353-CCV6	QC		61		24D0428		
S103353-CCB5	QC		62		24D0430		

Samples Loaded By

Date

Data Processed By

Date

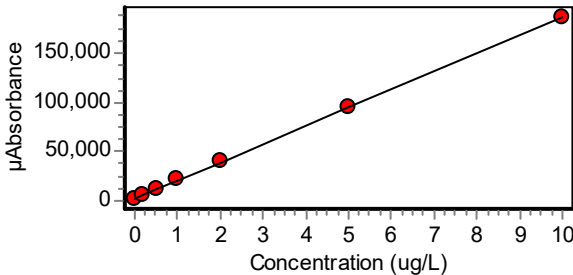
Analyst: LEEMAN,DML/AMV

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\2024\APRL\0417B24.wszf

Creation Date: 4/17/2024 2:48:05 PM

Comment:

Results

Sample Name			Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank			STD	04/17/24 03:34:59 pm	0.0000	1159	0.93			1.0000	N/A
Replicates	1170.0	1150.6		1149.3	1166.8						
Standard #1 (0.2 ppb)			STD	04/17/24 03:37:31 pm	0.2000	4764	0.29	-22.75%		1.0000	N/A
Replicates	4748.9	4780.3		4757.1	4769.3						
Standard #2 (0.5 ppb)			STD	04/17/24 03:40:03 pm	0.5000	11211	0.19	0.23%		1.0000	N/A
Replicates	11183.2	11208.5		11232.8	11219.8						
Standard #3 (1 ppb)			STD	04/17/24 03:42:36 pm	1.0000	21455	0.24	5.20%		1.0000	N/A
Replicates	21380.8	21456.1		21484.9	21496.6						
Standard #4 (2 ppb)			STD	04/17/24 03:45:09 pm	2.0000	39939	0.29	2.29%		1.0000	N/A
Replicates	39784.9	39918.2		40035.5	40017.7						
Standard #5 (5 ppb)			STD	04/17/24 03:47:42 pm	5.0000	94856	0.53	-0.03%		1.0000	N/A
Replicates	94168.9	94791.0		95167.3	95295.8						
Standard #6 (10 ppb)			STD	04/17/24 03:51:48 pm	10.0000	187631	0.15	-0.13%		1.0000	N/A
Replicates	187792.3	187800.9		187719.6	187212.1						
Calibration											
Equation:	Abs = 18597.997x + 1890.313										
R2:	0.99989	RSE:	11.72%								
SEE:	770.6387										
Flags:											
											
SEQ-ICV			ICV	04/17/24 03:56:20 pm	4.1671	79391	0.43	APPROVED By AMV at 11:51 am, 4/18/24		1.0000	104.18
Replicates	78941.9	79346.1		79590.6	79683.9						
SEQ-CCV@INITIAL			CCV	04/17/24 04:00:14 pm	4.9846	94593	0.64	APPROVED By AMV at 11:51 am, 4/18/24		1.0000	99.69
Replicates	93811.6	94459.8		94961.5	95140.0						
SEQ-ICB			ICB	04/17/24 04:04:10 pm	-0.0400	1146	1.79	APPROVED By AMV at 11:51 am, 4/18/24		1.0000	N/A
Replicates	1139.5	1143.1		1165.8	1136.6						
B371639-BS1			UNK	04/17/24 04:06:42 pm	4.1317	78732	0.44			1.0000	N/A
Replicates	78244.0	78795.0		79011.3	78878.5						
B371639-BS2			UNK	04/17/24 04:10:44 pm	4.1846	79716	0.62			1.0000	N/A
Replicates	79100.5	79577.8		80029.5	80155.8						
B371639-BS3			UNK	04/17/24 04:14:46 pm	4.1064	78261	0.68			1.0000	N/A
Replicates	77588.5	78144.3		78557.1	78754.8						

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
B371639-BS4	UNK	04/17/24 04:18:23 pm	4.2669	81247	0.30			1.0000	N/A
Replicates	81286.3	81466.9 81323.1 80910.1							
B371632-BS1	UNK	04/17/24 04:22:22 pm	4.3057	81967	0.28			1.0000	N/A
Replicates	81647.6	81967.1 82162.6 82091.3							
B371632-BSD1	UNK	04/17/24 04:26:32 pm	4.2026	80051	0.32			1.0000	N/A
Replicates	79707.7	80032.2 80238.2 80226.2							
B371638-MS1	UNK	04/17/24 04:30:35 pm	4.7576	90373	0.68			1.0000	N/A
Replicates	89575.1	90259.5 90711.7 90944.2							
B371640-BSD1	UNK	04/17/24 04:34:46 pm	4.3955	83637	0.28			1.0000	N/A
Replicates	83323.8	83601.2 83803.9 83819.9							
B371643-BSD1	UNK	04/17/24 04:38:23 pm	4.0771	77716	0.63			1.0000	N/A
Replicates	77105.6	77584.8 77986.1 78188.3							
B371643-MSD1	UNK	04/17/24 04:42:40 pm	3.9983	76250	0.34			1.0000	N/A
Replicates	75912.1	76210.2 76415.2 76464.2							
SEQ-CCV	CCV	04/17/24 04:46:40 pm	5.0030	94935	0.60			1.0000	100.06
Replicates	94210.6	94803.4 95278.4 95448.9							
SEQ-CCB	CCB	04/17/24 04:50:36 pm	-0.0725	542	0.91			1.0000	N/A
Replicates	528.8	545.7 536.2 557.2							
B371632-MS1@2x	UNK	04/17/24 04:53:09 pm	4.6141	87702	0.18			1.0000	N/A
Replicates	87560.3	87820.2 87856.7 87572.7							
B371639-BLK1	CCV	04/17/24 04:57:23 pm	-0.0229	1465	2.35	Q		1.0000	-0.46
Replicates	1470.8	1454.7 1458.7 1476.0							
B371632-BLK1	UNK	04/17/24 05:03:42 pm	0.0087	2052	13.14			1.0000	N/A
Replicates	2031.9	2035.3 2064.5 2074.5							
B371632-MS1	UNK	04/17/24 05:06:15 pm	8.0406	151429	0.29			1.0000	N/A
Replicates	151256.3	151209.5 151165.0 152085.0							
24D1075-01@TCLP	UNK	04/17/24 05:10:39 pm	0.3930	9199	0.37			1.0000	N/A
Replicates	9170.4	9184.1 9210.4 9231.4							
24D1075-02@TCLP	UNK	04/17/24 05:13:11 pm	-0.0170	1574	3.58			1.0000	N/A
Replicates	1572.7	1584.2 1558.5 1580.2							
24D1075-03@TCLP	UNK	04/17/24 05:15:44 pm	4.4102	83910	0.39			1.0000	N/A
Replicates	83468.2	83872.0 84129.0 84172.5							
24D1075-07@TCLP	UNK	04/17/24 05:19:35 pm	1.0803	21982	0.53			1.0000	N/A
Replicates	21856.0	21948.4 22016.2 22109.2							
B371638-BLK1	UNK	04/17/24 05:22:06 pm	-0.0139	1632	6.59			1.0000	N/A
Replicates	1620.6	1615.5 1650.7 1642.7							
B371638-BS1	UNK	04/17/24 05:24:38 pm	4.1651	79353	0.45			1.0000	N/A
Replicates	78909.0	79268.9 79520.4 79714.2							

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Q FLAG NOT VALID, TYPO MARKED BLK AS
CCV IN SOFTWARE AMV 4/18/24

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
SEQ-CCV	CCV	04/17/24 05:28:53 pm	5.5663	105412	0.86		Q	1.0000	111.33
Replicates		104305.9 105158.8 105829.0 106355.3							
SEE RR AMV 4/18/24									
SEQ-CCV	CCV	04/17/24 05:59:45 pm	4.8354	91820	0.48			1.0000	96.71
Replicates		91266.5 91716.5 92038.5 92258.0							
APPROVED By AMV at 11:51 am, 4/18/24									
SEQ-CCB	CCB	04/17/24 06:03:59 pm	-0.0713	563	0.84			1.0000	N/A
Replicates		574.3 565.9 547.9 565.4							
APPROVED By AMV at 11:51 am, 4/18/24									
B371638-BSD1	UNK	04/17/24 06:06:30 pm	4.0529	77265	0.52			1.0000	N/A
Replicates		76753.5 77171.6 77485.6 77651.3							
24D1075-01@SPLP	UNK	04/17/24 06:10:42 pm	0.3679	8732	0.72			1.0000	N/A
Replicates		8665.4 8726.4 8759.9 8776.1							
24D1075-02@SPLP	UNK	04/17/24 06:13:14 pm	0.1103	3941	0.77			1.0000	N/A
Replicates		3919.1 3948.9 3955.1 3940.1							
24D1075-03@SPLP	UNK	04/17/24 06:15:47 pm	0.3649	8677	0.62			1.0000	N/A
Replicates		8624.4 8665.9 8697.9 8720.9							
24D1075-07@SPLP	UNK	04/17/24 06:18:19 pm	2.7134	52355	0.39			1.0000	N/A
Replicates		52082.9 52342.2 52491.7 52503.2							
B371640-BLK1	UNK	04/17/24 06:22:20 pm	-0.0233	1456	3.57			1.0000	N/A
Replicates		1436.5 1451.5 1469.3 1468.0							
B371640-BS1	UNK	04/17/24 06:24:53 pm	4.1746	79530	0.44			1.0000	N/A
Replicates		79085.5 79456.2 79723.2 79853.5							
B371640-MS1	UNK	04/17/24 06:28:47 pm	4.2639	81190	0.64			1.0000	N/A
Replicates		80591.1 80989.0 81414.0 81764.8							
24D1206-01	UNK	04/17/24 06:32:59 pm	0.7040	14984	0.56			1.0000	N/A
Replicates		14886.0 14968.6 15038.8 15041.3							
24D1206-02	UNK	04/17/24 06:35:30 pm	0.1279	4269	1.17			1.0000	N/A
Replicates		4250.4 4253.3 4261.1 4310.1							
SEQ-CCV	CCV	04/17/24 06:38:04 pm	4.9794	94497	0.34			1.0000	99.59
Replicates		94155.3 94365.9 94562.7 94904.7							
APPROVED By AMV at 11:51 am, 4/18/24									
SEQ-CCB	CCB	04/17/24 06:42:32 pm	-0.0703	583	1.17			1.0000	N/A
Replicates		566.8 603.3 578.0 583.5							
APPROVED By AMV at 11:51 am, 4/18/24									
24D1206-03	UNK	04/17/24 06:45:04 pm	-0.0079	1744	13.48			1.0000	N/A
Replicates		1725.9 1761.1 1726.9 1760.1							
B371641-BLK1	UNK	04/17/24 06:47:36 pm	-0.0987	55	0.87			1.0000	N/A
Replicates		40.1 41.5 69.5 67.5							
B371641-BS1	UNK	04/17/24 06:50:08 pm	4.1282	78666	0.80			1.0000	N/A
Replicates		77865.9 78532.8 78973.5 79291.0							
B371641-BSD1	UNK	04/17/24 06:54:23 pm	4.0838	77841	0.51			1.0000	N/A
Replicates		77330.6 77768.4 78062.1 78202.1							

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	DF	% Recovery
B371641-MS1	UNK	04/17/24 06:58:24 pm	4.9138	93277	0.50			1.0000	N/A
Replicates	92694.2	93165.7	93518.2	93731.4					
24D1491-01	UNK	04/17/24 07:02:27 pm	0.0315	2476	3.71			1.0000	N/A
Replicates	2455.5	2464.0	2481.0	2504.8					
24D1492-01	UNK	04/17/24 07:05:00 pm	-0.0126	1657	2.03			1.0000	N/A
Replicates	1653.7	1657.0	1653.3	1663.5					
24D1628-01	UNK	04/17/24 07:07:33 pm	0.9821	20155	0.44			1.0000	N/A
Replicates	20047.8	20142.5	20202.8	20228.5					
B371643-BLK1	UNK	04/17/24 07:10:05 pm	-0.0992	45	0.68			1.0000	N/A
Replicates	26.5	52.3	52.8	48.0					
B371643-BS1	UNK	04/17/24 07:12:37 pm	4.0674	77536	0.44			1.0000	N/A
Replicates	77107.8	77448.4	77713.6	77875.4					
SEQ-CCV	CCV	04/17/24 07:16:37 pm	4.8040	91234	0.69			1.0000	96.08
Replicates	90456.6	91072.8	91541.1	91866.6					
SEQ-CCB	CCB	04/17/24 07:20:56 pm	-0.0693	601	1.32			1.0000	N/A
Replicates	594.4	626.4	596.2	588.7					
B371643-MS1	UNK	04/17/24 07:23:28 pm	3.9583	75506	0.48			1.0000	N/A
Replicates	75064.0	75407.4	75682.1	75871.1					
24D0735-03	UNK	04/17/24 07:27:34 pm	-0.0994	42	0.29			1.0000	N/A
Replicates	45.7	37.2	47.0	37.0					
24D0735-04	UNK	04/17/24 07:30:06 pm	-0.0980	67	1.25			1.0000	N/A
Replicates	71.6	97.4	47.4	51.9					
24D0735-05	UNK	04/17/24 07:32:38 pm	-0.0978	72	0.32			1.0000	N/A
Replicates	77.6	63.8	74.1	72.8					
24D0735-06	UNK	04/17/24 07:35:10 pm	-0.0974	80	0.54			1.0000	N/A
Replicates	66.8	78.8	89.8	83.3					
24D0735-07	UNK	04/17/24 07:37:42 pm	-0.0978	72	0.81			1.0000	N/A
Replicates	65.9	90.5	74.2	55.7					
24D0735-08	UNK	04/17/24 07:40:15 pm	-0.0973	80	0.74			1.0000	N/A
Replicates	78.6	90.3	62.3	90.5					
24D0735-09	UNK	04/17/24 07:42:48 pm	-0.0979	70	0.67			1.0000	N/A
Replicates	72.4	65.9	56.6	85.6					
24D0735-10	UNK	04/17/24 07:45:21 pm	-0.0965	95	0.44			1.0000	N/A
Replicates	106.0	92.0	96.3	87.5					
24D0735-11	UNK	04/17/24 07:47:53 pm	-0.0934	154	0.36			1.0000	N/A
Replicates	158.9	156.3	144.6	155.1					
SEQ-CCV	CCV	04/17/24 07:50:26 pm	4.7579	90378	0.68			1.0000	95.16
Replicates	89615.3	90208.7	90696.5	90991.0					

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Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags	DF	% Recovery
SEQ-CCB	CCB	04/17/24 07:54:26 pm	-0.0707	576	0.74			1.0000	N/A
Replicates		564.0 587.4 577.7 573.7							
24D0735-12	UNK	04/17/24 07:56:58 pm	-0.0991	48	0.76			1.0000	N/A
Replicates		49.0 67.4 40.4 35.6							
24D0735-13	UNK	04/17/24 07:59:30 pm	-0.0976	75	0.54			1.0000	N/A
Replicates		74.8 61.4 84.7 77.7							
24D0735-14	UNK	04/17/24 08:02:02 pm	-0.0974	78	0.42			1.0000	N/A
Replicates		83.7 73.4 70.1 85.6							
24D0735-15	UNK	04/17/24 08:04:34 pm	-0.0964	97	0.94			1.0000	N/A
Replicates		109.3 111.4 91.7 75.4							
24D0735-16	UNK	04/17/24 08:07:06 pm	-0.0965	96	0.58			1.0000	N/A
Replicates		82.4 99.6 107.3 96.6							
24D0735-17	UNK	04/17/24 08:09:38 pm	-0.0955	114	0.30			1.0000	N/A
Replicates		106.5 114.5 118.5 117.0							

APPROVED
By AMV at 11:51 am, 4/18/24

NO CLOSING CCV/CCB SEE
0417A24 AMV 4/18/24

Attachment D

Field Forms

GROUNDWATER SAMPLING PURGE FORM

GROUNDWATER SAMPLING PURGE FORM			
Well I.D.: MW-1	Personnel: M. Boyle, LBL	Client: NYSDEC	
Location: 7-Elaven	Well Condition: Good	Weather: 40's, Rain	
Sounding Method: Heron win	Gauge Date: 04/03/2024	Measurement Ref: TOL	
	Gauge Time: 1155		
Stick Up/Down (ft): 0.3'	PID Headspace Reading: -	Well Diameter (in): 2"	

Purge Date: 04/03/2024	Purge Time: 1158
Purge Method: Penstatite	Field Technician: M. Boyle, LBL

Well Volume		
A. Well Depth (ft): 15.15	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3'
B. Depth to Water (ft): 7.98	E. Well Volume (gal) (C*D): 1.17	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 7.17	F. Three Well Volumes (gal) (E*3): 3.51	Pump Intake Depth: 10.15'

[illegible]

Total Quantity of Water Removed (gal):	11.75 L	Sampling Time:	1245
Samplers:	M. BONG, LBL	Split Sample With:	-
Sampling Date:	04/03/2019	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.489	
Sample Parameter Stabilization Criteria:	Temp.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$

GROUNDWATER SAMPLING PURGE FORM									
Well I.D.: MW-2		Personnel: LBL		Client: NYSDEC					
Location: 7-eleven lot		Well Condition: GOOD		Weather: 42°F, rain					
Sounding Method: Heron Dipper T		Gauge Date: 4/3/24		Measurement Ref: TOIC					
Stick Up/Down (ft): 0.2'		Gauge Time: 10:55		Well Diameter (in): 2					
PID Headspace Reading: —									
Purge Date: 4/3/24				Purge Time: 10:55					
Purge Method: low flow				Field Technician: LBL					
Well Volume									
A. Well Depth (ft): 13.83		D. Well Volume (gal/ft): 0.163		Depth/Height of Top of PVC: 0.2'					
B. Depth to Water (ft): 6.68		E. Well Volume (gal) (C* D): 1.17		Pump Type: peristaltic					
C. Liquid Depth (ft) (A-B): 7.15		F. Three Well Volumes (gal) (E*3): 3.50		Pump Intake Depth: 11.5					
Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1100	6.78	0.508	0.7	3.38	10.02	174	6.68	0.3	1.5
1105	6.59	0.506	0.0	2.39	10.08	182	6.68	1	3.0
1110	6.62	0.508	0.0	2.40	10.19	178	6.68	1	4.5
1115	6.64	0.512	0.0	2.31	10.27	174	6.68	1	6.0
1120	6.68	0.512	0.0	2.35	10.22	171	6.68	1	7.5
1125	6.68	0.511	0.0	2.32	10.35	170	6.68	1	9.0
1130	6.72	0.512	0.0	2.60	10.31	168	6.68	1	10.5
1135	6.73	0.512	0.0	2.58	10.30	167	6.68	1	12.0
Total Quantity of Water Removed (gal): 17.0 L									
Samplers: LBL				Sampling Time: 1135					
Sampling Date: 4/3/24				Split Sample With: —					
				Sample Type: Grab					
COMMENTS AND OBSERVATIONS:									
Volume of Water in Casing (gallons/foot): 1" well: 0.041 2" well: 0.163 4" well: 0.653 6" well: 1.469									
Sample Parameter Stabilization Criteria: Temp.: ±3% pH: ±0.1 Cond.: ±3% ORP: ±10 mV DO/NTU: ±10%									

Well ID.: MLW-9B	Personnel: M. Boyle	Client: WYSEEC
Location:	Well Condition: New	Weather: 45°F, Rain
Sounding Method: <i>Across st. from Ace</i>	Gauge Date: 04/01/17	Measurement Ref: TOC
Stick Up/Down (ft): 0.3'	Gauge Time: 1345	
	PID Headspace Reading: —	Well Diameter (in): 2"

Purge Date: 04/02/2024	Purge Time: 1350
Purge Method: Peristaltic	Field Technician: M. Boyle

Well Volume		
A. Well Depth (ft): 45.01	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 8.46	E. Well Volume (gal) (C*D): 5.96	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 36.55	F. Three Well Volumes (gal) (E*3): 17.87	Pump Intake Depth: 40.01'

[illegible]

Total Quantity of Water Removed (gal): 7.5
Samplers: M. B. Yu
Sampling Date: 04/02/2024

Sampling Time: 1425
Split Sample With: _____
Sample Type: Gravel

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM									
Well ID.: MW-9		Personnel: LBL		Client: NYSDEC					
Location: OU-1		Well Condition:		Weather: 49°F, rain					
Sounding Method: Hexon WLM (Dipper)		Gauge Date: 4/2/24		Measurement Ref: TOIC					
Gauge Time: 13:45		Stick Up/Down (ft): -0.8'		PID Headspace Reading: —		Well Diameter (in): 2"			
Purge Date: 4/2/24				Purge Time: 13:50					
Purge Method: low flow				Field Technician: LBL					
Well Volume									
A. Well Depth (ft):		D. Well Volume (gal/ft): 0.163		Depth/Height of Top of PVC: 0.8'					
B. Depth to Water (ft): 7.96		E. Well Volume (gal) (C*D):		Pump Type: peristaltic					
C. Liquid Depth (ft) (A-B):		F. Three Well Volumes (gal) (E*3):		Pump Intake Depth:					
Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
13:52	3.25	0.482	132	2.54	10.60	342	7.96	0.3	0.6
13:57	3.35	0.489	63.1	1.83	10.53	330	7.96		2.1
14:02	3.42	0.489	52.6	1.72	10.82	326	7.96		3.6
14:07	3.50	0.494	31.0	1.57	10.90	322	7.96		5.1
14:12	3.52	0.494	28.0	1.60	10.88	322	7.96		6.6
14:17	3.55	0.492	23.2	1.55	10.97	322	7.96		8.1
14:22	3.57	0.494	16.7	1.49	11.04	322	7.96		9.6
14:27	3.54	0.492	13.7	1.48	11.03	324	7.96		11.1
14:32	3.51	0.488	12.5	1.43	11.1	327	7.96		12.6
14:37	3.56	0.489	11.7	1.44	11.02	325	7.96		14.1
14:42							7.9		15.6
Total Quantity of Water Removed (gal):					Sampling Time: 14:42				
Samplers: LBL					Split Sample With: —				
Sampling Date: 4/2/24					Sample Type: grab				
COMMENTS AND OBSERVATIONS:									
Volume of Water in Casing (gallons/foot): 1" well: 0.041 2" well: 0.163 4" well: 0.653 6" well: 1.469									
Sample Parameter Stabilization Criteria: Temp.: ±3% pH: ±0.1 Cond.: ±3% ORP: ±10 mV DO/NTU: ±10%									

PAGE 1/2

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13A	Personnel: M. Boyle	Client: WYSEDEC
Location: DZOS	Well Condition: Poor - inundated	Weather: 46°F, Rain
Sounding Method: Heron WLM	Gauge Date: 04/02/2024 Gauge Time: 1035	Measurement Ref: TOL
Stick Up/Down (ft): 0.3'	PID Headspace Reading: -	Well Diameter (in): 0.3'

Purge Date: 04/02/2024	Purge Time: 1038
Purge Method: Peristaltic	Field Technician: M. Boyle

Well Volume		
A. Well Depth (ft): 10.84	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3'
B. Depth to Water (ft): 3.43	E. Well Volume (gal) (C'D): 1.21	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 7.41	F. Three Well Volumes (gal) (E*3): 3.62	Pump Intake Depth: 5.84'

Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1038	5.90	0.437	323	5.24	11.38	196	3.43	0.25	0.0
1043	6.12	0.441	314	4.13	11.39	195	3.43	0.25	1.25
1048	6.12	0.447	286	2.80	11.44	154	3.43	0.25	2.50
1053	6.11	0.449	279	2.56	11.48	154	3.43	0.25	3.75
1058	6.08	0.456	257	2.43	11.52	132	3.43	0.25	5.0
1103	6.09	0.467	231	2.26	11.56	125	3.43	0.25	6.25
1108	6.09	0.447	224	2.15	11.60	117	3.43	0.25	7.5
1113	6.04	0.485	226	2.32	11.64	98	3.43	0.25	8.75
1118	6.14	0.488	224	2.13	11.64	113	3.43	0.25	10.0
1123	6.10	0.493	220	2.49	11.66	112	3.43	0.25	11.25
1128	6.12	0.499	190	2.58	11.66	107	3.43	0.25	12.5
1133	6.12	0.497	189	2.58	11.72	104	3.43	0.25	13.75
1138	6.13	0.495	185	2.51	11.83	103	3.43	0.25	15.0
1143	6.13	0.494	180	2.50	11.88	104	3.43	0.25	16.25
1148	6.83	0.496	174	2.62	11.93	78	3.43	0.25	17.5
1153	6.16	0.498	159	2.42	11.98	104	3.43	0.25	18.75

Total Quantity of Water Removed (gal): 25.02	Sampling Time: 12:38
Samplers: M. Boyle	Split Sample With: MW-13A
Sampling Date: 04/02/2024	Sample Type: Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

PAGE 2/2

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13A	Personnel:	Client:
Location:	Well Condition:	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
	Gauge Time:	
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft):	D. Well Volume (gal/ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) (C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E*3):	Pump Intake Depth:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1158	6.13	0.505	142	2.26	12.00	103	3.43	0.25	15.0
1203	6.13	0.568	139	2.28	11.92	103	3.43	0.25	16.25
1208	6.12	0.513	138	2.19	11.89	103	3.43	0.25	17.5
1213	6.12	0.526	148	2.12	11.90	103	3.43	0.25	18.75
1218	6.50	0.535	151	1.94	11.83	88	3.43	0.25	20.0
1223	5.61	0.549	15.1	3.66	11.76	111	3.43	0.25	21.25
1228	6.13	0.549	15.4	2.73	11.73	103	3.43	0.25	22.5
1233	6.14	0.549	14.9	2.36	11.71	102	3.43	0.25	23.75
1238	6.14	0.549	15.6	2.29	11.69	102	3.43	0.25	25.0

Total Quantity of Water Removed (gal):	Sampling Time: 1238
Samplers:	Split Sample With:
Sampling Date:	Sample Type:

COMMENTS AND OBSERVATIONS: Flushed Horiba LU Between 1218 & 1223
Readings

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

SEE PAGE 1

SEE PAGE 2

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-13B	Personnel: LBL	Client: NYSDEC
Location: lot next to liquor store	Well Condition: OK	Weather: 48°F, cloudy
Sounding Method: Hevon WLM (Dipper)	Gauge Date: 4/2/24	Measurement Ref: TOIC
Stick Up/Down (ft): 0.2'	Gauge Time: 10:26	Well Diameter (in): 2"
	PID Headspace Reading: —	

Purge Date: 4/2/24	Purge Time: 10:28
Purge Method: low flow	Field Technician: LBL

Well Volume

A. Well Depth (ft): 42.55	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.2'
B. Depth to Water (ft): 3.29	E. Well Volume (gal) (C*D):	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 39.26	F. Three Well Volumes (gal) (E*3):	Pump Intake Depth: 37.55

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
10:31	4.03	0.195	110	3.10	10.76	123	3.28	0.3	0.9
10:36	3.46	0.198	44.3	3.31	11.17	163	3.02		2.4
10:41	3.36	0.194	32.7	3.31	11.65	195	3.28		3.9
10:46	3.31	0.193	21.1	3.41	11.71	216	3.28		5.4
10:51	3.28	0.191	16.5	3.25	11.90	233	3.28		6.9
10:56	3.27	0.188	12.7	3.30	12.04	245	3.28		8.4
11:01	3.26	0.183	9.2	3.19	12.23	254	3.28		9.9
11:06	3.23	0.180	6.7	3.19	12.44	265	3.28		11.4
11:11	3.20	0.178	6.1	3.11	12.56	274	3.28		12.9
11:16	3.15	0.177	5.0	3.04	12.66	282	3.28		14.4
11:21	3.08	0.175	4.8	3.03	12.73	290	3.28		15.9
11:26	3.09	0.173	3.7	3.06	12.83	294	3.28		17.4
11:31	3.09	0.171	3.2	3.00	12.98	299	3.28		18.9
11:36	3.09	0.171	3.1	2.87	13.02	301	3.28		20.4
11:41	3.14	0.170	3.3	2.92	13.11	301	3.28		21.9
11:46	3.15	0.169	2.3	2.88	13.18	303	3.28		23.4

Total Quantity of Water Removed (gal): 23.9 L	Sampling Time: 11:46
Samplers: LBL	Split Sample With: —
Sampling Date: 4/2/24	Sample Type: Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV
				DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM			
Well I.D.: MW-15A	Personnel: M. Boyle, Lincoln Backman-Love	Client: NYSDEC	
Location: Ace Hardware	Well Condition: OK	Weather: 43°F, Rain	
Sounding Method: Heron WLM	Gauge Date: 04/03/2024	Measurement Ref: TOC	
Stick Up/Down (ft): 0.3'	Gauge Time: 0845	Well Diameter (in): 2"	
	PID Headspace Reading: —		

Purge Date:	03/04/03/2024	Purge Time:	0850
Purge Method:	Peristaltic	Field Technician:	M. Boyle

Well Volume		
A. Well Depth (ft): 28.90	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3
B. Depth to Water (ft): 5.36	E. Well Volume (gal) (C*D): 3.89	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 23.54	F. Three Well Volumes (gal) (E*3): 11.6	Pump Intake Depth: 23.90'

[illegible]

Samplers: _____
Sampling Date: _____

Sampling Time: 0940
Split Sample With: ☒
Sample Type: Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM		
Well I.D.: MW-15B	Personnel: LAL	Client: NYSDEC
Location: Ace lot	Well Condition: OK	Weather: 42°F, rain
Sounding Method: Herron Dipper T	Gauge Date: 9/3/24	Measurement Ref: TOLC
Stick Up/Down (ft): 0.2	Gauge Time: 08:45	Well Diameter (in): 2
Purge Date: 11/3/24	PID Headspace Reading: —	

Purge Date:	4/3/24	Purge Time:	08:48
Purge Method:	low flow	Field Technician:	LBL

Well Volume		
A. Well Depth (ft): 83.80	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.2'
B. Depth to Water (ft): 5.49	E. Well Volume (gal) (C*D): 12.77	Pump Type: peristaltic
C. Liquid Depth (ft) (A-B): 78.37	F. Three Well Volumes (gal) (E*3): 38.31	Pump Intake Depth: 78.00

[illegible]

Total Quantity of Water Removed (gal):		14.4	Sampling Time:		0930
Samplers:		LB2	Split Sample With:		
Sampling Date:		4/3/24	Sample Type:		Grain
COMMENTS AND OBSERVATIONS:					

pH readings low, Horiba re-calibrated for further sampling

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <u>MW-17</u>	Personnel: <u>LBL, MB</u>	Client: <u>NYSDEC</u>
Location: <u>upgradient, Orinoco Dr.</u>	Well Condition: <u>OK</u>	Weather: <u>42°F, rain</u>
Sounding Method: <u>Herron Dipper T</u>	Gauge Date: <u>4/3/24</u>	Measurement Ref: <u>TOIC</u>
Stick Up/Down (ft):	Gauge Time: <u>07:12</u>	Well Diameter (in): <u>2</u>
	PID Headspace Reading: <u>—</u>	

Purge Date: <u>4/3/24</u>	Purge Time: <u>0714</u>
Purge Method: <u>low flow</u>	Field Technician: <u>LBL</u>

Well Volume

A. Well Depth (ft): <u>16.48</u>	D. Well Volume (gal/ft): <u>0.163</u>	Depth/Height of Top of PVC:
B. Depth to Water (ft): <u>6.17</u>	E. Well Volume (gal) (C*D): <u>1.08</u>	Pump Type: <u>peristaltic</u>
C. Liquid Depth (ft) (A-B): <u>10.31</u>	F. Three Well Volumes (gal) (E*3): <u>5.04</u>	Pump Intake Depth: <u>12.48</u>

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
07:19	5.70	0.219	96.0	6.13	8.79	142	6.19	0.3	1.5
07:24	6.95	0.221	1.8	4.75	8.91	85	6.19		3.0
07:29	6.97	0.223	0.0	4.39	8.97	95	6.19		4.5
07:34	7.02	0.223	0.0	4.28	8.94	105	6.19		6.0
07:39	6.93	0.224	0.0	4.24	8.91	121	6.19		7.5
07:44	6.96	0.224	0.0	4.18	8.85	130	6.19		9.0
07:49	6.96	0.222	0.0	4.09	8.80	137	6.19		10.5
07:54	6.93	0.221	0.0	4.02	8.76	143	6.19		12.0
07:59	6.79	0.222	0.0	4.03	8.75	155	6.19		13.5
08:04	6.164	0.223	0.0	3.88	8.72	167	6.19		15.0
08:09	6.53	0.224	0.0	3.94	8.73	176	6.19		16.5
08:14	6.52	0.222	0.0	3.97	8.69	179	6.19		18.0
08:19	6.51	0.223	0.0	3.90	8.67	181	6.19		19.5
~~08:24~~									

Total Quantity of Water Removed (gal): <u>19.5 L</u>	Sampling Time: <u>0819</u>
Samplers: <u>LBL, MB</u>	Split Sample With: <u>—</u>
Sampling Date: <u>4/3/24</u>	Sample Type: <u>Grab</u>

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <u>MW-22A</u>		Personnel: <u>LBL</u>		Client: <u>NY5DEC</u>					
Location: <u>grass, east side of captree</u>		Well Condition: <u>OK</u>		Weather: <u>45°F, cloudy, drizzle</u>					
Sounding Method: <u>Heron WLM (Dipper-T)</u>		Gauge Date: <u>4/2/24</u>		Measurement Ref: <u>TOIC</u>					
Stick Up/Down (ft): <u>0.3 ft</u>		Gauge Time: <u>08:15</u>		Well Diameter (in): <u>2"</u>					
PID Headspace Reading: <u>—</u>									
Purge Date: <u>4/2/24</u>			Purge Time: <u>0820</u>						
Purge Method: <u>low flow</u>			Field Technician: <u>LBL</u>						
Well Volume									
A. Well Depth (ft): <u>14.51</u>		D. Well Volume (gal/ft): <u>0.163</u>		Depth/Height of Top of PVC: <u>0.3'</u>					
B. Depth to Water (ft): <u>6.47</u>		E. Well Volume (gal) (C*D): <u>1.31</u>		Pump Type: <u>10.0' peristaltic</u>					
C. Liquid Depth (ft) (A-B): <u>8.04</u>		F. Three Well Volumes (gal) (E*3): <u>3.93</u>		Pump Intake Depth: <u>10.0' btoic</u>					
Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0824	4.22	0.800	>1000	1.87	8.14	251	6.48	0.3	1.2
0829	4.64	0.575	241	4.44	8.03	184	6.48		2.7
0834	4.59	0.557	216	1.23	8.18	137	6.48		3.2
0839	4.56	0.545	122	1.13	8.19	110	6.48		4.7
0844	4.55	0.545	97.0	1.00	8.20	93	6.48		6.2
0849	4.55	0.548	73.4	0.83	8.19	75	6.48		7.7
0854	4.70	0.550	58.6	0.81	8.18	58	6.48		9.2
0859	4.62	0.552	51.9	0.72	8.18	58	6.48		10.7
0904	4.59	0.554	34.7	0.62	8.20	53	6.48		12.2
0909	4.59	0.554	24.5	0.53	8.18	47	6.48		13.7
0914	4.58	0.553	18.2	0.52	8.24	45	6.48		15.2
0919	4.59	0.551	19.0	0.48	8.29	41	6.48		16.7
0924	4.59	0.551	18.6	0.46	8.31	39	6.48		18.2
Total Quantity of Water Removed (gal): <u>18.2 L</u>		Samplers: <u>LBL</u>		Sampling Time: <u>0924</u>					
Sampling Date: <u>4/2/24</u>		Split Sample With: <u>MS/MSD</u>		Sample Type: <u>Grab</u>					
COMMENTS AND OBSERVATIONS:									
Volume of Water in Casing (gallons/foot):		1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469				
Sample Parameter Stabilization Criteria:		Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV				
		DO/NTU: ±10%							

Well I.D.: MW-22B	Personnel: M. Boyle, L. Bachmann, ^{Low}	Client: WYSDC
Location: D205	Well Condition: Good	Weather: 46°F, Rain
Sounding Method: ^{Hevon} WLM	Gauge Date: ~~08/25/08~~ 4/2/20	Measurement Ref: TOL
Stick Up/Down (ft): 0.3	Gauge Time: 0820	
	PID Headspace Reading: —	Well Diameter (in): 21

Purge Date: 04/02/2024	Purge Time: 0825
Purge Method: Peristaltic	Field Technician: M. Boyle

A. Well Depth (ft): 44.68	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 6.3
B. Depth to Water (ft): 6.25	E. Well Volume (gal) (C*D): 6.26	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 38.43	F. Three Well Volumes (gal) (E*3): 18.79	Pump Intake Depth: 39.68

[illegible]

Total Quantity of Water Removed (gal): 11.65 L
Samplers: M. B. L.
Sampling Date: 02/10/2024

Sampling Time: 8/1/0
Split Sample With:
Sample Type: Grub

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

GROUNDWATER SAMPLING PURGE FORM									
Well I.D.: MW-23A		Personnel: LBL		Client: NYSDEC					
Location: captree parking lot		Well Condition: OK		Weather: 48°F, rain					
Sounding Method: Heron Dipper T		Gauge Date: 4/2/24		Measurement Ref: TOIC					
Stick Up/Down (ft): 0.3'		Gauge Time: 15:00		Well Diameter (in): 2					
PID Headspace Reading: —									
Purge Date: 4/2/24				Purge Time: 15:04					
Purge Method: low flow				Field Technician: LBL					
Well Volume									
A. Well Depth (ft): 14.55		D. Well Volume (gal/ft): 0.163		Depth/Height of Top of PVC: 0.3'					
B. Depth to Water (ft): 5.78		E. Well Volume (gal) (C*D): 1.43		Pump Type: peristaltic					
C. Liquid Depth (ft) (A-B): 8.77		F. Three Well Volumes (gal) (E*3): 4.29		Pump Intake Depth: 11.5					
Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
15:07	3.32	0.493	16.6	0.43	12.17	196	5.78	0.3	0.9
15:12	3.32	0.473	9.6	0.35	12.67	168	5.78		2.4
15:17	3.33	0.451	5.9	0.34	12.71	160	5.78		3.9
15:22	3.37	0.433	5.2	0.38	12.77	155	5.78		5.4
15:27	3.41	0.422	4.6	0.37	12.86	152	5.78		6.9
15:32	3.43	0.406	3.9	0.33	12.92	146	5.78		8.4
15:37	3.46	0.384	1.2	0.29	13.06	141	5.78		9.9
15:42	3.48	0.384	0.4	0.26	13.10	138	5.78		11.4
15:47	3.51	0.382	0.0	0.22	13.11	135	5.78		12.9
Total Quantity of Water Removed (gal): 12.9 L									
Samplers: LBL				Sampling Time: 15:47					
Sampling Date: 4/2/24				Split Sample With: Grab					
Sample Type: Grab									
COMMENTS AND OBSERVATIONS:									
Volume of Water in Casing (gallons/foot): 1" well: 0.041 2" well: 0.163 4" well: 0.653 6" well: 1.469									
Sample Parameter Stabilization Criteria: Temp.: ±3% pH: ±0.1 Cond.: ±3% ORP: ±10 mV DO/NTU: ±10%									

PAGE 1/2

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-23B	Personnel: M-Boyle	Client: WYSDCC
Location: Behind stop & shop	Well Condition: OK	Weather: 45°F, Heavy Rain
Sounding Method: Heron wlm	Gauge Date: 04/02/2024	Measurement Ref: TOL
Gauge Time: 1450	PID Headspace Reading: —	Well Diameter (in): 2"
Stick Up/Down (ft): 0.3'		

Purge Date: 04/02/2024	Purge Time: 1500
Purge Method: Peristaltic	Field Technician: M. Boyle

Well Volume

A. Well Depth (ft): 44.35	D. Well Volume (gal/ft): 0.163	Depth/Height of Top of PVC: 0.3'
B. Depth to Water (ft): 6.65	E. Well Volume (gal) (C*D): 6.15	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 37.7	F. Three Well Volumes (gal) (E*3): 18.4	Pump Intake Depth: 39.35'

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1500	5.96	0.440	532	5.31	11.26	226	6.65	0.75	6.0
1505	6.66	0.471	514	5.97	11.29	218	6.65	0.75	1.25
1510	6.10	0.475	502	2.80	11.34	197	6.65	0.75	2.50
1515	6.11	0.496	446	2.53	11.41	164	6.65	0.75	3.75
1520	6.12	0.492	454	2.91	11.46	140	6.65	0.75	5.0
1525	6.12	0.495	418	2.29	11.50	138	6.65	0.75	6.25
1530	6.12	0.496	399	2.38	11.52	132	6.65	0.75	7.5
1535	6.13	0.499	371	2.03	11.53	121	6.65	0.75	8.75
1540	6.13	0.499	362	2.51	11.81	118	6.65	0.75	10.0
1545	6.14	0.501	325	2.62	11.79	112	6.65	0.75	11.25
1550	6.15	0.503	294	2.35	11.88	111	6.65	0.75	12.5
1555	6.15	0.506	264	2.41	11.63	110	6.65	0.75	13.75
1600	6.15	0.508	231	2.62	11.77	107	6.65	0.75	15.0
1605	6.15	0.526	211	2.40	11.86	107	6.65	0.75	16.25
1610	6.14	0.533	150	2.66	11.92	106	6.65	0.75	17.5
1615	6.13	0.540	88.4	2.48	12.03	104	6.65	0.75	18.75

Total Quantity of Water Removed (gal): 22.50 L	Sampling Time: 1630
Samplers: M. Boyle	Split Sample With: —
Sampling Date: 04/02/2024	Sample Type: Grab

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469	
Sample Parameter Stabilization Criteria:	Temp.: ±3%	pH: ±0.1	Cond.: ±3%	ORP: ±10 mV	DO/NTU: ±10%

[illegible]

Client:	

Weather:

Measurement Ref:	

Well Diameter (in):

Purge Time:	

Field Technician: _____

A. Well Depth (ft):	D. Well Volume (gal/ft):	Depth/Height of Top of PVC:

Depth/Height of Top of PVC:	

Pump Type:	

Pump Intake Depth:	

Time	pH	Conductivity	Turbidity	DO	Temperature	ORP	DTW	Rate	Volume

[illegible]

Sampling Time: _____

Split Sample With: _____

Sample Type: _____

COMMENTS AND OBSERVATIONS:

Volume of Water in Casing (gallons/foot):	1" well: 0.041	2" well: 0.163	4" well: 0.653	6" well: 1.469

Sample Parameter Stabilization Criteria:	Temp.: $\pm 3\%$	pH: ± 0.1	Cond.: $\pm 3\%$	ORP: ± 10 mV	DO/NTU: $\pm 10\%$



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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Moderate flow, clear	
Weather / Temperature: 47°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	17:25	SD-01	FD-1	Loose, brown, fine-coarse sand, some fine-medium subrounded gravel, little organic matter, lose, wet, no odor/sheen Temp: 12.11 °C; pH: 5.83; ORP: 74 mV, Conductivity: 0.270 mS/cm; Turbidity: 0.0 NTU; DO: 5.67 mg/L			

Logged by: _____	Signature _____



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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Moderate flow, clear
Weather / Temperature: 47°F, Cloudy

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	17:30	SD-02	None	Loose, brown, fine-coarse sand, some fine-medium sub-rounded gravel, trace organic matter, lose, wet, no odor/sheen Temp: 11.98°C; pH: 5.45; ORP: 104 mV; Conductivity: 0.272 mS/cm; Turbidity: 0.0 NTU; DO: 5.97 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Moderate flow, clear, minimal vegetation

Weather / Temperature: 47°F, Cloudy

Drilling Equipment None

Sample Collection Equipment/Method Composite, Designated sampling spoon

Analyses Total Cadmium and Chromium

Sample Appearance / Description

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	
0-6"	None	04/01/2024	1640	SD-03	None	Loose, fine to coarse grayish-brown sand, some fine to coarse sub-rounded gravel, little organic matter, wet, non-plastic, non-cohesive Temp: 12.73°C; pH: 5.50; ORP: 105 mV; Conductivity: 0.271 mS/cm; Turbidity: 0.0 NTU; DO: 6.11 mg/L

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Low flow, clear
Weather / Temperature: 47°F, Cloudy

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	16:35	SD-04	None	Loose, fine to coarse grayish-brown sand, trace fine to coarse sub-rounded gravel, wet, no odor/sheen non-plastic, non-cohesive Temp: 12.59°C; pH: 5.22; ORP: 111 mV; Conductivity: 0.270; Turbidity: 0.0 NTU; DO: 5.65 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Moderate flow, clear
Weather / Temperature: 47°F, Cloudy

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	17:40	SD-05	None	Loose, fine to coarse reddish-brown sand, some fine to medium sub-rounded gravel, wet, no odor/ sheen, non-plastic, non-cohesive Temp: 11.81°C; pH: 7.25; ORP: 14 mV; Conductivity: 0.269 mS/cm; Turbidity: 0.0 NTU; DO: 6.41 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Low flow, clear, no surface vegetation

Weather / Temperature: 47°F, Cloudy

Drilling Equipment None

Sample Collection Equipment/Method Composite, Designated sampling spoon

Analyses Total Cadmium and Chromium

Sample Appearance / Description

Loose, medium to coarse dark grayish-brown sand, some fine to coarse sub-rounded gravel, trace fine dark grayish-brown silt, wet, no odor/sheen, low plasticity, non cohesive.

Temp: 12.25°C; pH: 5.97; ORP: 84 mV; Conductivity: 0.272 mS/cm; Turbidity: 0.0 NTU; DO: 6.39 mg/L

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Low flow, clear, no surface vegetation
Weather / Temperature: 47°F, Cloudy

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	16:20	SD-07	None	Loose, fine to coarse tan-brown sand, little fine to medium sub-rounded gravel, trace fine brown silt, wet, no odor/sheen, non-plastic, non-cohesive Temp: 12.48°C; pH: 5.20; ORP: 104 mV; Conductivity: 0.273 mS/cm; Turbidity: 0.0 NTU; DO: 5.65 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Low flow, clear, no surface vegetation	
Weather / Temperature: 47°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	
0-6"	None	04/01/2024	16:15	SD-08	None	Drilling EquipmentNone Sample Collection Equipment/MethodComposite, Designated sampling spoon AnalysesTotal Cadmium and Chromium Sample Appearance / Description Loose, fine to medium light-brown sand, little fine to medium sub-rounded gravel, trace fine dark-brown silt, some organic matter, wet, no odor/sheen; low plasticity, non-cohesive Temp: 12.40°C; pH: 5.11; ORP: 106 mV; Conductivity: 0.274 mS/cm; Turbidity: 0.0 NTU; DO: 5.57 mg/L

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician
Surface Conditions: High flow, clear	
Weather / Temperature: 47°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	16:10	SD-09	None	Loose, fine to coarse light reddish-brown sand, some fine to medium sub-rounded gravel, wet, no odor/sheen, low plasticity, non-cohesive Temp: 12.47°C; pH: 5.22; ORP: 102 mV; Conductivity: 0.273 mS/cm; Turbidity: 0.0 NTU; DO: 8.01 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician
Surface Conditions: High flow, clear	
Weather / Temperature: 47°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	17:45	SD-10	None	Loose, fine to coarse brown sand, some fine sub-rounded gravel, wet, no odor/sheen, non-plastic, non-cohesive Temp: 11.62°C; pH: 5.46; ORP: 99 mV; Conductivity: 0.267 mS/cm; Turbidity: 0.0 NTU; DO: 6.65 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Moderate flow, clear	
Weather / Temperature: 47°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	17:55	SD-11	None	Loose, fine to coarse reddish-brown sand, some fine sub-rounded gravel, wet, no odor/sheen, non-plastic, non-cohesive Temp: 11.47°C; pH: 5.28; ORP: 114; Conductivity: 0.261 mS/cm, Turbidity: 0.0 NTU; DO: 9.82 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Moderate flow, clear
Weather / Temperature: 47°F, Cloudy

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	15:50	SD-12	None	Loose, fine to coarse grayish-brown sand, some fine to coarse sub-rounded gravel, wet, no odor/ sheen, non-plastic, non-cohesive Temp: 12.41°C; pH: 4.93; ORP: 120 mV; Conductivity: 0.270 mS/cm; Turbidity: 0.0 NTU; DO: 6.30 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Moderate flow, clear
Weather / Temperature: 47°F, Cloudy

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	14:55	SD-13	None	Loose, fine to coarse brown sand, some fine to coarse sub-rounded gravel, trace fine brown silt, wet, no odor/sheen, non-plastic, non-cohesive Temp: 12.90°C; pH: 5.19; ORP: 134 mV; Conductivity: 0.262 mS/cm; Turbidity: 0.0 NTU; DO: 7.40 mg/L			

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Sediment Sampling Log

Site Name : Dzus Fastener Co. text here	Project No. 152033
Site Location West Islip, NY	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe

Surface Conditions: Low flow, clear
Weather / Temperature: 47°F, Cloudy

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Composite, Designated sampling spoon	Analyses Total Cadmium and Chromium	Sample Appearance / Description
0-6"	None	04/01/2024	14:05	SD-14	MS/MSD	Loose, fine to coarse brown sand, some fine to coarse sub-rounded gravel, trace fine brown silt, wet, no odor/sheen, non-plastic, non-cohesive Temp: 13.06°C; pH: 5.10; ORP: 185 mV; Conductivity: 0.300 mS/cm; Turbidity: 0.0 NTU; DO: 7.51 mg/L			

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Surface Water Sampling Log

Site Name Dzus Fastner Co.	Project No. 152033
Site Location West Islip, New York	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Low flow, Clear	
Weather / Temperature: 45°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None
						Sample Collection Equipment/Method Grab sample, peristaltic pump
						Analyses Dissolved Metals, Total Hardness
						Sample Appearance / Description
6" below Water Surface	None	04/01/2024	17:15	SW-01	FD-1	Low flow of moving water, clear appearance, some surface vegetation Temp: 12.11°C; pH: 5.83; ORP: 74 mV; Conductivity: 0.270 mS/cm; Turbidity: 0.0; DO: 5.67

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Surface Water Sampling Log

Site Name	Dzus Fastner Co.	Project No.	152033
Site Location	West Islip, New York	Date/Time	04/01/2024
Page	1 of 1	Field Technician	M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Low flow, Clear			
Weather / Temperature: 45°F, Cloudy			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	Sample Collection Equipment/Method	Analyses	Sample Appearance / Description
6" below Water Surface	None	04/01/2024	16:30	SW-04	MS/MSD	None	Grab sample, peristaltic pump	Dissolved Metals, Total Hardness	Low flow of moving water, clear appearance, some surface vegetation Temp: 12.59°C; pH: 5.22; ORP: 111 mV; Conductivity: 0.270 mS/cm; Turbidity: 0.0; DO: 5.65

Logged by: _____

Signature _____



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Surface Water Sampling Log

Site Name	Dzus Fastner Co.	Project No.	152033
Site Location	West Islip, New York	Date/Time	04/01/2024
Page	1 of 1	Field Technician	M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Low flow, Clear			
Weather / Temperature: 45°F, Cloudy			

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment	Sample Collection Equipment/Method	Analyses	Sample Appearance / Description
6" below Water Surface	None	04/01/2024	17:00	SW-06	None	None	Grab sample, peristaltic pump	Dissolved Metals, Total Hardness	Low flow of moving water, clear appearance, no surface vegetation Temp: 12.25°C; pH: 5.97; ORP: 84 mV; Conductivity: 0.272 mS/cm; Turbidity: 0.0; DO: 6.39

Logged by: _____

Signature _____



**EA Engineering, Science, and
Technology, Inc., PBC**

Surface Water Sampling Log

Site Name Dzus Fastner Co.	Project No. 152033
Site Location West Islip, New York	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Moderate flow, Clear	
Weather / Temperature: 45°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Grab sample, peristaltic pump	Analyses Dissolved Metals, Total Hardness	Sample Appearance / Description
6" below Water Surface	None	04/01/2024	17:50	SW-11	None				Moderate flow of moving water, clear appearance Temp: 11.47°C; pH: 5.28; ORP: 114; Conductivity: 0.261 mS/cm, Turbidity: 0.0 NTU; DO: 9.82 mg/L

Logged by: _____

Signature _____



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Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Moderate flow, Clear	
Weather / Temperature: 45°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None	Sample Collection Equipment/Method Grab sample, peristaltic pump	Analyses Dissolved Metals, Total Hardness	Sample Appearance / Description
6" below Water Surface	None	04/01/2024	14:50	SW-13	None				Moderate flow of moving water, clear appearance, presence of macrophytes Temp: 12.90°C; pH: 5.19; ORP: 134 mV; Conductivity: 0.262 mS/cm; Turbidity: 0.0; DO: 7.40

Logged by: _____	Signature _____



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Surface Water Sampling Log

Site Name Dzus Fastner Co.	Project No. 152033
Site Location West Islip, New York	Date/Time 04/01/2024
Page 1 of 1	Field Technician M. Boyle, Lincoln Backman-Lowe
Surface Conditions: Low flow, Clear	
Weather / Temperature: 45°F, Cloudy	

Sample Interval (in.)	PID (ppm)	Sample Date	Sample Time	Sample ID	QA/QC Collected	Drilling Equipment None
						Sample Collection Equipment/Method Grab sample, peristaltic pump
						Analyses Dissolved Metals, Total Hardness
						Sample Appearance / Description
6" below Water Surface	None	04/01/2024	14:00	SW-14	None	Low flow of moving water, clear, some surface vegetation Temp: 13.06°C; pH: 5.15; ORP: 185 mV; Conductivity: 0.300 mS/cm; Turbidity: 0.0; DO: 7.51

Logged by: _____

Signature _____