ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2638 MATRIX: Water

METHOD: 6020B,7470A

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.			✓
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Matrix Spike (OU4-TS-44-071725MS) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver, Thallium and Vanadium due to Chemical interference during Digestion process. The Matrix Spike Duplicate (OU4-TS-44-071725MSD) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver, Thallium and Vanadium due to Chemical interference during Digestion process.			
7.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

The Post Digest Spike (OU4-TS-44-071725A) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver and Vanadium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Q2638 SPLP all samples diluted 5X Straight due to SPLP fluid which cannot be injected as is without dilution to avoid damage to detector of instrument.

Internal standard 89Y(1) and 89Y(2) was outside qc limit for samples Q2638-04 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 89Y(1) was outside qc limit for samples Q2638-02, Q2638-06, Q2638-08, Q2638-10, Q2638-12 and Q2638-14 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 209Bi(1) was outside qc limit for samples Q2638-02, Q2638-04, Q2638-06, Q2638-08, Q2638-10, Q2638-12 and Q2638-14 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 89Y(1and 2), 209Bi(1) was outside qc limit for samples Q2639-14Qcs in Original so for these samples affected parameters are reported from its Dilution.

In analytical sequence LB136601, The % recovery was outside of acceptance limit for Beryllium of ICV01 , LLICV01 and CCV01 but no any samples parameter associated under these calibration.

In analytical sequence LB136601, The % recovery was outside of acceptance limit for Beryllium and Nickel of ICSAB01 but, no any samples parameter associated under this ICSAB.

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QA REVIEW Date