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AURO SOLUTION ARSENIC REDUCTION TEST REPORT

Report # 15-151 (Auro Solution)
Customer Name: Auro, LLC.
Report Date: July 3, 2015

EXECUTIVE SUMMARY

A challenge water prepared with Arsenic III, at a concentration of 50 µg/L. Auro Solution was added to the solution at a concentration of 3 mL of Auro per liter of challenge water. The solution was filtered through the Auro Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Auro solution. The concentration of Arsenic decreased to non-detectable level after 48 hours.

INTRODUCTION

A challenge water prepared with Arsenic III, at a concentration of 50 µg/L. Auro Solution was added to the solution at a concentration of 3 mL of Auro per liter of challenge water. The solution was filtered through the Auro Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Auro solution. The concentration of Arsenic decreased to non-detectable level after 48 hours.

REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.
Arsenic III Standard Solution.
Auro Solution.
Auro Ceramic Filter System.

PROCEDURE

A challenge water solution was prepared with DI water and Arsenic III standard at a concentration of about 50 µg/L; then added Auro Solution to the challenge water at a concentration of 3 mL of Auro per liter of challenge water, filtered the solution through the Auro Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Auro solution, following the EPA method 200.9.

RESULTS

The Arsenic concentration for the challenge water and filtered Auro Solution are summarized in the following table:

Parameter Tested	Water Solution	Auro 3 mL/L after 24 hrs.	Auro 3 mL/L after 48 hrs.
Arsenic III	56.8 µg/L	0.8 µg/L	<0.5 µg/L

CONCLUSION

The concentration of Arsenic was 0.8 µg/L after 24 of adding Auro Auro and filtering the solution, and less than 0.5 µg/L after 48 hours of adding Auro Auro and filtering the solution through the Auro Ceramic Filter System.

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