

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: LOD-LOQ-MDL Study
Client Sample ID: LOD-MDL-WATER-04-QT3-2025
Lab Sample ID: Q2893-10
Level (low/med): low

Date Collected: 08/18/25
Date Received: 08/18/25
SDG No.: Q2893
Matrix: Water
% Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	89.3	J	1	30.8	100	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-36-0	Antimony	41.9	J	1	5.44	50.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-38-2	Arsenic	18.1	J	1	3.70	20.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-39-3	Barium	76.9	J	1	19.5	100	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-41-7	Beryllium	4.97	J	1	0.54	6.00	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-42-8	Boron	70.6	J	1	13.8	100	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-43-9	Cadmium	4.49	J	1	0.62	6.00	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-70-2	Calcium	1620	J	1	173	2000	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-47-3	Chromium	8.18	J	1	1.06	10.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-48-4	Cobalt	23.2	J	1	2.32	30.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-50-8	Copper	18.0	J	1	3.78	20.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7439-89-6	Iron	90.0	J	1	36.0	100	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7439-92-1	Lead	10.1	J	1	2.42	12.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7439-95-4	Magnesium	1640	J	1	208	2000	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7439-96-5	Manganese	16.4	J	1	4.92	20.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7439-98-7	Molybdenum	160	J	1	17.6	200	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-02-0	Nickel	30.9	J	1	3.80	40.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-09-7	Potassium	1630	J	1	618	2000	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7782-49-2	Selenium	15.7	J	1	5.04	20.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-21-3	Silicon	266	J	1	37.4	400	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-22-4	Silver	7.74	J	1	1.62	10.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-23-5	Sodium	1680	J	1	734	2000	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-28-0	Thallium	38.9	J	1	5.02	40.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-31-5	Tin	30.8	J	1	5.36	40.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-32-6	Titanium	28.7	J	1	7.82	40.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-62-2	Vanadium	30.3	J	1	4.98	40.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7
7440-66-6	Zinc	33.0	J	1	4.00	40.0	ug/L	10/15/25 09:45	10/17/25 14:09	EPA 200.7	M200.7

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits