

DATA PACKAGE

METALS

PROJECT NAME: NJUC RESIDENTIAL WATER QUALITY TESTING

XIN NIE

522 23 St

Union City, NJ - 07087

Phone No: 202-642-7211

ORDER ID: Q2785

ATTENTION: Xin Nie







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Cover Page

Order ID: Q2785

Project ID: NJUC residential water quality testing

Client: Xin Nie

Lab Sample Number Client Sample Number

Q2785-01 WATER

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

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:02 pm, Aug 13, 2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

8/13/2025

Date:

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

CASE NARRATIVE

Xin Nie

Project Name: NJUC residential water quality testing

Project # N/A **Order ID # O2785**

Test Name: Mercury, Metals ICP-TAL

A. Number of Samples and Date of Receipt:

1 Water samples were received on 08/06/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL and METALS-TAL. This data package contains results for Mercury, Metals ICP-TAL.

C. Analytical Techniques:

The analysis and digestion of Metals ICP-TAL was based on 200.7 and The analysis and digestion of Mercury was based on 245.1.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate (EFF-WASTE WATERMSD) analysis met criteria for all compounds except for Magnesium, Potassium and Zinc due to Chemical Interference during Digestion Process.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

The Post Digest Spike (POWDERA) analysis met criteria for all compounds except for Potassium 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.

The Date and time of sampling was not listed in the COC.

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

APPROVED

Signature_

By Nimisha Pandya, QA/QC Supervisor at 2:03 pm, Aug 13, 2025

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DATA REPORTING QUALIFIERS- INORGANIC

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

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

Aliance

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2785

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

QA Review Signature: SOHIL JODHANI Date: 08/13/2025

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Q2785

SDG No.:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789 8900, Fax: 908 789 8922

Hit Summary Sheet SW-846

Order ID: Q2785

Vin Ni NILIC regidential v

Client:	Xin Nie			Project ID) :	NJUC residential	water quality testi	ng
Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WATER							
Q2785-01	WATER	Water	Aluminum	84.1		15.4	50.0	ug/L
Q2785-01	WATER	Water	Barium	46.6	J	9.75	50.0	ug/L
Q2785-01	WATER	Water	Cadmium	0.77	J	0.31	3.00	ug/L
Q2785-01	WATER	Water	Calcium	28600		86.4	1000	ug/L
Q2785-01	WATER	Water	Copper	6.75	J	1.89	10.0	ug/L
Q2785-01	WATER	Water	Iron	34.8	J	18.0	50.0	ug/L
Q2785-01	WATER	Water	Lead	26.8		1.21	6.00	ug/L
Q2785-01	WATER	Water	Magnesium	5880		104	1000	ug/L
Q2785-01	WATER	Water	Manganese	12.7		2.46	10.0	ug/L
Q2785-01	WATER	Water	Nickel	2.48	J	1.90	20.0	ug/L
Q2785-01	WATER	Water	Potassium	1740		309	1000	ug/L
Q2785-01	WATER	Water	Sodium	57800		367	1000	ug/L
Q2785-01	WATER	Water	Zinc	441		2.00	20.0	ug/L

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SAMPLE DATA

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Fax: 908 789 8922

Report of Analysis

Client: Xin Nie Date Collected: 08/05/25 Project: Date Received: NJUC residential water quality testing 08/06/25 Client Sample ID: SDG No.: Q2785 WATER Lab Sample ID: Q2785-01 Matrix: Water Level (low/med): % Solid: 0 low

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met. Prep Met.
7429-90-5	Aluminum	84.1		1	15.4	50.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-36-0	Antimony	2.72	U	1	2.72	25.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-38-2	Arsenic	1.85	U	1	1.85	10.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-39-3	Barium	46.6	J	1	9.75	50.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-41-7	Beryllium	0.27	U	1	0.27	3.00	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-43-9	Cadmium	0.77	J	1	0.31	3.00	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-70-2	Calcium	28600		1	86.4	1000	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-47-3	Chromium	0.53	U	1	0.53	5.00	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-48-4	Cobalt	1.16	U	1	1.16	15.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-50-8	Copper	6.75	J	1	1.89	10.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7439-89-6	Iron	34.8	J	1	18.0	50.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7439-92-1	Lead	26.8		1	1.21	6.00	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7439-95-4	Magnesium	5880	N	1	104	1000	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7439-96-5	Manganese	12.7		1	2.46	10.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7439-97-6	Mercury	0.027	U	1	0.027	0.20	ug/L	08/12/25 13:50	08/12/25 18:01	E245.1
7440-02-0	Nickel	2.48	J	1	1.90	20.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-09-7	Potassium	1740	N	1	309	1000	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7782-49-2	Selenium	2.52	U	1	2.52	10.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-22-4	Silver	0.81	U	1	0.81	5.00	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-23-5	Sodium	57800		1	367	1000	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-28-0	Thallium	2.51	U	1	2.51	20.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-62-2	Vanadium	2.49	U	1	2.49	20.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7
7440-66-6	Zinc	441	N	1	2.00	20.0	ug/L	08/11/25 12:55	08/12/25 13:20	EPA 200.7

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: METALS-TAL

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

Q2785



LAB CHRONICLE

OrderID: Q2785 **OrderDate:** 8/6/2025 11:37:24 AM

Client: Xin Nie Project: NJUC residential water quality testing

Contact: Xin Nie Location: D31

LabID	ClientID	Matrix Test Method S				Prep Date	Anal Date	Received
Q2785-01	WATER	Water	08/05/25				08/06/25	
			Mercury	245.1		08/12/25	08/12/25	
			Metals ICP-TAL	200.7		08/11/25	08/12/25	

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A

В

C



SHIPPING DOCUMENTS

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Alliance
TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 788-9222 www.chemtech.net

HAIN OF CUSTODY RECORD

Alliance Pro	ject Number:	Q2785
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CHAIN OF CUSTODY RECORD								COC Number:											
	CLIENT	INFORMATIC	N	PR	OJEC1	INFC	RMATIC	N		BILLING INFORMATION								ON	
COMPANY: Xin Nie				PROJECT NAME:						BILL TO: PO#									
ADDRESS: 522 23	St			PROJECT #: LOCATION:						ADDRESS:									
CITY Union City		STATE: NJ	ZIP:07087	PROJECT MANAGER	₹;					CITY:								STAT	ΓΕ: ZIP:
ATTENTION:	Xin Nie			E-MAIL:						ATTE	NTION	l:						PHO	NE:
PHONE: FAX:				PHONE:			FAX:			ANALYSIS									
DATA TURNAROUND INFORMATION			MATION	DATA DE	LIVER	ABLE	INFOR	MATION											
FAX: DAYS* HARD COPY: DAYS* EDD DAYS* TO BE APPROVED BY ALLIANCE			□ RESEULTS ONLY □ USEPA CLP □ RESULTS + QC □ New York State ASP "B" □ New Jersey REDUCED □ New York State ASP "A" □ New Jersey CLP □ Other						→ Metals	2	3	4	5	6	7	8	9		
STANDARD TURN	NAROUND TI	ME IS 10 BUSIN	ESS DAYS	☐ EDD Format		<u> </u>	Zu 161						RESE	_		_	-	3	COMMENTS
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CHEMTECH SAMPLE	s	PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX	TYPE COLLECTION BY O DATE TIME			of Bottles	\vdash		3	4	\vdash		_			A-HCI B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other	
ID					Ö		DATE	TIME	#	1	2	3	4	5	6	7	8	9	E-ICE F-Other
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			2.																
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Laboratory Certification

Certified By	License No.
CAC FDA CLD Contract	COLUED 120 D0044
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148