



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1324 **Order ID:** Q1324
Client: VERINA CONSULTING GROUP, LLC **Project ID:** Rotor Clip NJ WTD - 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WATER TREATMENT DISCHARGE								
Q1324-01	WATER TREATMENT DISCHA	Water	Chromium	166		0.66	5.00	ug/L
Q1324-01	WATER TREATMENT DISCHA	Water	Copper	13.1		7.07	10.0	ug/L
Q1324-01	WATER TREATMENT DISCHA	Water	Nickel	6.78	J	0.85	20.0	ug/L
Q1324-01	WATER TREATMENT DISCHA	Water	Zinc	163		1.75	20.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	VERINA CONSULTING GROUP, LLC	Date Collected:	02/06/25
Project:	Rotor Clip NJ WTD - 2025	Date Received:	02/06/25
Client Sample ID:	WATER TREATMENT DISCHARGE	SDG No.:	Q1324
Lab Sample ID:	Q1324-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-47-3	Chromium	166		1	0.66	5.00	ug/L	02/10/25 09:10	02/12/25 14:50	SW6010	SW3010
7440-50-8	Copper	13.1		1	7.07	10.0	ug/L	02/10/25 09:10	02/12/25 14:50	SW6010	SW3010
7440-02-0	Nickel	6.78	J	1	0.85	20.0	ug/L	02/10/25 09:10	02/12/25 14:50	SW6010	SW3010
7440-66-6	Zinc	163		1	1.75	20.0	ug/L	02/10/25 09:10	02/12/25 14:50	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

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



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	13:12	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	13:12	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	13:12	LB134704
	Zinc	40.0	+/-40.0	U	40.0	P	02/12/2025	13:12	LB134704

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	13:43	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	13:43	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	13:43	LB134704
	Zinc	40.0	+/-40.0	U	40.0	P	02/12/2025	13:43	LB134704
CCB02	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	14:33	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	14:33	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	14:33	LB134704
	Zinc	40.0	+/-40.0	U	40.0	P	02/12/2025	14:33	LB134704
CCB03	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	15:24	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	15:24	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	15:24	LB134704
	Zinc	40.0	+/-40.0	U	40.0	P	02/12/2025	15:24	LB134704
CCB04	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	16:17	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	16:17	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	16:17	LB134704
	Zinc	4.78	+/-40.0	J	40.0	P	02/12/2025	16:17	LB134704
CCB05	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	17:08	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	17:08	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	17:08	LB134704
	Zinc	40.0	+/-40.0	U	40.0	P	02/12/2025	17:08	LB134704
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	17:59	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	17:59	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	17:59	LB134704
	Zinc	40.0	+/-40.0	U	40.0	P	02/12/2025	17:59	LB134704
CCB07	Chromium	10.0	+/-10.0	U	10.0	P	02/12/2025	18:38	LB134704
	Copper	20.0	+/-20.0	U	20.0	P	02/12/2025	18:38	LB134704
	Nickel	40.0	+/-40.0	U	40.0	P	02/12/2025	18:38	LB134704
	Zinc	40.0	+/-40.0	U	40.0	P	02/12/2025	18:38	LB134704

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166635BL	WATER			Batch Number:	PB166635		Prep Date:	02/10/2025	
	Chromium	5.00	<5.00	U	5.00	P	02/12/2025	15:16	LB134704
	Copper	10.0	<10.0	U	10.0	P	02/12/2025	15:16	LB134704
	Nickel	20.0	<20.0	U	20.0	P	02/12/2025	15:16	LB134704
	Zinc	9.15	<20.0	J	20.0	P	02/12/2025	15:16	LB134704



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Chromium	528	520	102	90 - 110	P	02/12/2025	12:59	LB134704
	Copper	520	510	102	90 - 110	P	02/12/2025	12:59	LB134704
	Nickel	514	530	97	90 - 110	P	02/12/2025	12:59	LB134704
	Zinc	1010	1000	101	90 - 110	P	02/12/2025	12:59	LB134704

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Chromium	10.2	10.0	102	80 - 120	P	02/12/2025	13:08	LB134704
	Copper	21.9	20.0	110	80 - 120	P	02/12/2025	13:08	LB134704
	Nickel	39.3	40.0	98	80 - 120	P	02/12/2025	13:08	LB134704
	Zinc	42.2	40.0	106	80 - 120	P	02/12/2025	13:08	LB134704

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q1324

Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Chromium	999	1000	100	90 - 110	P	02/12/2025	13:39	LB134704
	Copper	1260	1250	101	90 - 110	P	02/12/2025	13:39	LB134704
	Nickel	2500	2500	100	90 - 110	P	02/12/2025	13:39	LB134704
	Zinc	2470	2500	99	90 - 110	P	02/12/2025	13:39	LB134704
CCV02	Chromium	1030	1000	103	90 - 110	P	02/12/2025	14:29	LB134704
	Copper	1270	1250	102	90 - 110	P	02/12/2025	14:29	LB134704
	Nickel	2530	2500	101	90 - 110	P	02/12/2025	14:29	LB134704
	Zinc	2520	2500	101	90 - 110	P	02/12/2025	14:29	LB134704
CCV03	Chromium	1020	1000	102	90 - 110	P	02/12/2025	15:20	LB134704
	Copper	1250	1250	100	90 - 110	P	02/12/2025	15:20	LB134704
	Nickel	2490	2500	100	90 - 110	P	02/12/2025	15:20	LB134704
	Zinc	2510	2500	100	90 - 110	P	02/12/2025	15:20	LB134704
CCV04	Chromium	1020	1000	102	90 - 110	P	02/12/2025	16:13	LB134704
	Copper	1240	1250	99	90 - 110	P	02/12/2025	16:13	LB134704
	Nickel	2490	2500	100	90 - 110	P	02/12/2025	16:13	LB134704
	Zinc	2470	2500	99	90 - 110	P	02/12/2025	16:13	LB134704
CCV05	Chromium	1020	1000	102	90 - 110	P	02/12/2025	17:04	LB134704
	Copper	1250	1250	100	90 - 110	P	02/12/2025	17:04	LB134704
	Nickel	2490	2500	100	90 - 110	P	02/12/2025	17:04	LB134704
	Zinc	2480	2500	99	90 - 110	P	02/12/2025	17:04	LB134704
CCV06	Chromium	1020	1000	102	90 - 110	P	02/12/2025	17:55	LB134704
	Copper	1250	1250	100	90 - 110	P	02/12/2025	17:55	LB134704
	Nickel	2500	2500	100	90 - 110	P	02/12/2025	17:55	LB134704
	Zinc	2490	2500	99	90 - 110	P	02/12/2025	17:55	LB134704
CCV07	Chromium	1020	1000	102	90 - 110	P	02/12/2025	18:34	LB134704
	Copper	1270	1250	102	90 - 110	P	02/12/2025	18:34	LB134704
	Nickel	2510	2500	100	90 - 110	P	02/12/2025	18:34	LB134704
	Zinc	2470	2500	99	90 - 110	P	02/12/2025	18:34	LB134704



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Chromium	10.1	10.0	101	40 - 160	P	02/12/2025	13:17	LB134704
	Copper	22.2	20.0	111	40 - 160	P	02/12/2025	13:17	LB134704
	Nickel	40.4	40.0	101	40 - 160	P	02/12/2025	13:17	LB134704
	Zinc	43.0	40.0	108	40 - 160	P	02/12/2025	13:17	LB134704

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Chromium	59.1	52.0	114	42	62	02/12/2025	13:21	LB134704
	Copper	7.73	2.0	386	-18	22	02/12/2025	13:21	LB134704
	Nickel	4.04	2.0	202	-38	42	02/12/2025	13:21	LB134704
	Zinc	4.54			-40	40	02/12/2025	13:21	LB134704
ICSAB01	Chromium	571	542	105	460	624	02/12/2025	13:25	LB134704
	Copper	498	511	98	434	588	02/12/2025	13:25	LB134704
	Nickel	1010	954	106	810	1100	02/12/2025	13:25	LB134704
	Zinc	1050	952	110	809	1095	02/12/2025	13:25	LB134704



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: VERINA CONSULTING GROUP, LLC **level:** low **sdg no.:** Q1324

contract: VERI01 **lab code:** CHEM **case no.:** Q1324 **sas no.:** Q1324

matrix: Water **sample id:** Q1324-01 **client id:** WATER TREATMENT DISCHARGEMS

Percent Solids for Sample: NA **Spiked ID:** Q1324-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Chromium	ug/L	75 - 125	362		166		200	98		P
Copper	ug/L	75 - 125	149		13.1		150	90		P
Nickel	ug/L	75 - 125	259		6.78	J	250	101		P
Zinc	ug/L	75 - 125	269		163		100	106		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: VERINA CONSULTING GROUP, LLC **level:** low **sdg no.:** Q1324
contract: VERI01 **lab code:** CHEM **case no.:** Q1324 **sas no.:** Q1324
matrix: Water **sample id:** Q1324-01 **client id:** WATER TREATMENT DISCHARGEMSD
Percent Solids for Sample: NA **Spiked ID:** Q1324-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Chromium	ug/L	75 - 125	363		166		200	99		P
Copper	ug/L	75 - 125	148		13.1		150	90		P
Nickel	ug/L	75 - 125	259		6.78	J	250	101		P
Zinc	ug/L	75 - 125	267		163		100	105		P

Metals
- 5b -

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Contract: VERI01

Lab Code: CHEM

Case No.: Q1324

SAS No.: Q1324

Matrix:

Level: LOW

Client ID:

Sample ID:

Spiked ID:

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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- A
- B
- C
- D
- E
- F
- G
- H
- I
- J

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: VERINA CONSULTING GROUP, LLC **Level:** LOW **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324
Matrix: Water **Sample ID:** Q1324-01 **Client ID:** WATER TREATMENT DISCHARGEDUP
Percent Solids for Sample: NA **Duplicate ID** Q1324-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Chromium	ug/L	20	166		164		1		P
Copper	ug/L	20	13.1		12.9		2		P
Nickel	ug/L	20	6.78	J	6.61	J	3		P
Zinc	ug/L	20	163		162		1		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: VERINA CONSULTING GROUP, LLC **Level:** LOW **SDG No.:** Q1324
Contract: VERI01 **Lab Code:** CHEM **Case No.:** Q1324 **SAS No.:** Q1324
Matrix: Water **Sample ID:** Q1324-01MS **Client ID:** WATER TREATMENT DISCHARGEMSD
Percent Solids for Sample: NA **Duplicate ID** Q1324-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Chromium	ug/L	20	362		363		0		P
Copper	ug/L	20	149		148		1		P
Nickel	ug/L	20	259		259		0		P
Zinc	ug/L	20	269		267		1		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Contract: VERI01

Lab Code: CHEM

Case No.: Q1324

SAS No.: Q1324

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166635BS							
Chromium	ug/L	200	199		100	80 - 120	P
Copper	ug/L	150	146		97	80 - 120	P
Nickel	ug/L	250	236		94	80 - 120	P
Zinc	ug/L	100	100		100	80 - 120	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

WATER TREATMENT DISCHARGEL

Lab Name: Chemtech Consulting Group **Contract:** VERI01
Lab Code: CHEM **Lb No.:** lb134704 **Lab Sample ID :** Q1324-01L **SDG No.:** Q1324
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence		Q	M
Chromium	166		165		0			P
Copper	13.1		50.0	U	100.0			P
Nickel	6.78	J	6.63	J	2			P
Zinc	163		156		4			P

metals
- 14 -
ANALYSIS RUN LOG

Client: VERINA CONSULTING GROUP, LLC

Contract: VERI01

Lab code: CHEM

Case no.: Q1324

Sas no.: Q1324

Sdg no.: Q1324

Instrument id number:

Method:

Run number: LB134704

Start date: 02/12/2025

End date: 02/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1147	Cr,Cu,Ni,Zn
S1	S1	1	1152	Cr,Cu,Ni,Zn
S2	S2	1	1156	Cr,Cu,Ni,Zn
S3	S3	1	1200	Cr,Cu,Ni,Zn
S4	S4	1	1204	Cr,Cu,Ni,Zn
S5	S5	1	1209	Cr,Cu,Ni,Zn
ICV01	ICV01	1	1259	Cr,Cu,Ni,Zn
LLICV01	LLICV01	1	1308	Cr,Cu,Ni,Zn
ICB01	ICB01	1	1312	Cr,Cu,Ni,Zn
CRI01	CRI01	1	1317	Cr,Cu,Ni,Zn
ICSA01	ICSA01	1	1321	Cr,Cu,Ni,Zn
ICSAB01	ICSAB01	1	1325	Cr,Cu,Ni,Zn
CCV01	CCV01	1	1339	Cr,Cu,Ni,Zn
CCB01	CCB01	1	1343	Cr,Cu,Ni,Zn
CCV02	CCV02	1	1429	Cr,Cu,Ni,Zn
CCB02	CCB02	1	1433	Cr,Cu,Ni,Zn
Q1324-01	WATER TREATMENT DISCHA	1	1450	Cr,Cu,Ni,Zn
Q1324-01DUP	WATER TREATMENT DISCHA	1	1455	Cr,Cu,Ni,Zn
Q1324-01L	WATER TREATMENT DISCHA	5	1459	Cr,Cu,Ni,Zn
Q1324-01MS	WATER TREATMENT DISCHA	1	1503	Cr,Cu,Ni,Zn
Q1324-01MSD	WATER TREATMENT DISCHA	1	1507	Cr,Cu,Ni,Zn
PB166635BL	PB166635BL	1	1516	Cr,Cu,Ni,Zn
CCV03	CCV03	1	1520	Cr,Cu,Ni,Zn
CCB03	CCB03	1	1524	Cr,Cu,Ni,Zn
PB166635BS	PB166635BS	1	1529	Cr,Cu,Ni,Zn
CCV04	CCV04	1	1613	Cr,Cu,Ni,Zn
CCB04	CCB04	1	1617	Cr,Cu,Ni,Zn
CCV05	CCV05	1	1704	Cr,Cu,Ni,Zn
CCB05	CCB05	1	1708	Cr,Cu,Ni,Zn
CCV06	CCV06	1	1755	Cr,Cu,Ni,Zn
CCB06	CCB06	1	1759	Cr,Cu,Ni,Zn
CCV07	CCV07	1	1834	Cr,Cu,Ni,Zn
CCB07	CCB07	1	1838	Cr,Cu,Ni,Zn



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Contract: VERI01

Lab Code: CHEM

Case No.: Q1324

SAS No.: Q1324

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Contract: VERI01

Lab Code: CHEM

Case No.: Q1324

SAS No.: Q1324

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000



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Metals
- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Contract: VERI01

Lab Code: CHEM

Case No.: Q1324

SAS No.: Q1324

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Contract: VERI01

Lab Code: CHEM

Case No.: Q1324

SAS No.: Q1324

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Contract: VERI01

Lab Code: CHEM

Case No.: Q1324

SAS No.: Q1324

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

LAB CHRONICLE

OrderID:	Q1324	OrderDate:	2/6/2025 1:55:00 PM
Client:	VERINA CONSULTING GROUP, LLC	Project:	Rotor Clip NJ WTD - 2025
Contact:	Michael Valenzi	Location:	D11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1324-01	WATER TREATMENT DISCHARGE	Water	Metals Group4	6010D	02/06/25	02/10/25	02/12/25	02/06/25



METAL PREPARATION & ANALYICAL SUMMARY

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client:	<u>VERINA CONSULTING GROUP, LLC</u>	SDG No.:	<u>Q1324</u>
Contract:	<u>VERI01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1324</u>
		SAS No.:	<u>Q1324</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166635							
PB166635BL	PB166635BL	MB	WATER	02/10/2025	50.0	25.0	
PB166635BS	PB166635BS	LCS	WATER	02/10/2025	50.0	25.0	
Q1324-01	WATER TREATMENT DISCHARGE	SAM	WATER	02/10/2025	50.0	25.0	
Q1324-01DUP	WATER TREATMENT DISCHARGEDUP	DUP	WATER	02/10/2025	50.0	25.0	
Q1324-01MS	WATER TREATMENT DISCHARGEMS	MS	WATER	02/10/2025	50.0	25.0	
Q1324-01MSD	WATER TREATMENT DISCHARGEMSD	MSD	WATER	02/10/2025	50.0	25.0	

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134704

Review By	kareem	Review On	2/13/2025 5:06:02 PM
Supervise By	JANVI	Supervise On	2/13/2025 5:07:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84204,MP84381,MP84383,MP84384,MP84385,MP84386,MP84388		
ICV Standard	MP84446		
CCV Standard	MP84392		
ICSA Standard	MP84230,MP84231		
CRI Standard			
LCS Standard	MP84387		
Chk Standard	MP84218,MP84219		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/12/25 11:47		Kareem	OK
2	S1	S1	CAL2	02/12/25 11:52		Kareem	OK
3	S2	S2	CAL3	02/12/25 11:56		Kareem	OK
4	S3	S3	CAL4	02/12/25 12:00		Kareem	OK
5	S4	S4	CAL5	02/12/25 12:04		Kareem	OK
6	S5	S5	CAL6	02/12/25 12:09		Kareem	OK
7	ICV01	ICV01	ICV	02/12/25 12:59		Kareem	OK
8	LLICV01	LLICV01	LLICV	02/12/25 13:08		Kareem	OK
9	ICB01	ICB01	ICB	02/12/25 13:12		Kareem	OK
10	CRI01	CRI01	CRDL	02/12/25 13:17		Kareem	OK
11	ICSA01	ICSA01	ICSA	02/12/25 13:21		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	02/12/25 13:25		Kareem	OK
13	ICSADL	ICSADL	ICSA	02/12/25 13:31		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	02/12/25 13:35		Kareem	OK
15	CCV01	CCV01	CCV	02/12/25 13:39		Kareem	OK
16	CCB01	CCB01	CCB	02/12/25 13:43		Kareem	OK
17	Q1341-01	HAR-ROLLOFFS	SAM	02/12/25 13:48		Kareem	OK
18	Q1343-01	WC-9	SAM	02/12/25 13:52		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134704

Review By	kareem	Review On	2/13/2025 5:06:02 PM
Supervise By	JANVI	Supervise On	2/13/2025 5:07:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84204,MP84381,MP84383,MP84384,MP84385,MP84386,MP84388		
ICV Standard	MP84446		
CCV Standard	MP84392		
ICSA Standard	MP84230,MP84231		
CRI Standard			
LCS Standard	MP84387		
Chk Standard	MP84218,MP84219		

19	Q1343-05	WC-10	SAM	02/12/25 13:56		Kareem	OK
20	Q1343-09	WC-7	SAM	02/12/25 14:00		Kareem	OK
21	Q1343-09DUP	WC-7DUP	DUP	02/12/25 14:04		Kareem	OK
22	Q1343-09L	WC-7L	SD	02/12/25 14:08		Kareem	OK
23	Q1343-09MS	WC-7MS	MS	02/12/25 14:13	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
24	Q1343-09MSD	WC-7MSD	MSD	02/12/25 14:17	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
25	Q1343-09A	WC-7A	PS	02/12/25 14:21	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
26	Q1343-13	WC-13	SAM	02/12/25 14:25		Kareem	OK
27	CCV02	CCV02	CCV	02/12/25 14:29		Kareem	OK
28	CCB02	CCB02	CCB	02/12/25 14:33		Kareem	OK
29	Q1343-17	WC-14	SAM	02/12/25 14:37		Kareem	OK
30	PB166634BL	PB166634BL	MB	02/12/25 14:41		Kareem	OK
31	PB166634BS	PB166634BS	LCS	02/12/25 14:46	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
32	Q1324-01	WATER TREATMENT	SAM	02/12/25 14:50		Kareem	OK
33	Q1324-01DUP	WATER TREATMENT	DUP	02/12/25 14:55		Kareem	OK
34	Q1324-01L	WATER TREATMENT	SD	02/12/25 14:59		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134704

Review By	kareem	Review On	2/13/2025 5:06:02 PM
Supervise By	JANVI	Supervise On	2/13/2025 5:07:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84204,MP84381,MP84383,MP84384,MP84385,MP84386,MP84388		
ICV Standard	MP84446		
CCV Standard	MP84392		
ICSA Standard	MP84230,MP84231		
CRI Standard			
LCS Standard	MP84387		
Chk Standard	MP84218,MP84219		

35	Q1324-01MS	WATER TREATMENT	MS	02/12/25 15:03	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
36	Q1324-01MSD	WATER TREATMENT	MSD	02/12/25 15:07	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
37	Q1324-01A	WATER TREATMENT	PS	02/12/25 15:12	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
38	PB166635BL	PB166635BL	MB	02/12/25 15:16		Kareem	OK
39	CCV03	CCV03	CCV	02/12/25 15:20		Kareem	OK
40	CCB03	CCB03	CCB	02/12/25 15:24		Kareem	OK
41	PB166635BS	PB166635BS	LCS	02/12/25 15:29	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
42	PB166651TB	PB166651TB	MB	02/12/25 15:33		Kareem	OK
43	Q1343-04	WC-9	SAM	02/12/25 15:37		Kareem	OK
44	Q1343-08	WC-10	SAM	02/12/25 15:42		Kareem	OK
45	Q1343-12	WC-7	SAM	02/12/25 15:46		Kareem	OK
46	Q1343-16	WC-13	SAM	02/12/25 15:51		Kareem	OK
47	Q1343-20	WC-14	SAM	02/12/25 15:55		Kareem	OK
48	Q1344-02	SOIL-1	SAM	02/12/25 15:59		Kareem	OK
49	Q1344-04	SOIL-2	SAM	02/12/25 16:04		Kareem	OK
50	Q1346-02	SOIL-COMP	SAM	02/12/25 16:08		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134704

Review By	kareem	Review On	2/13/2025 5:06:02 PM
Supervise By	JANVI	Supervise On	2/13/2025 5:07:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84204,MP84381,MP84383,MP84384,MP84385,MP84386,MP84388		
ICV Standard	MP84446		
CCV Standard	MP84392		
ICSA Standard	MP84230,MP84231		
CRI Standard			
LCS Standard	MP84387		
Chk Standard	MP84218,MP84219		

51	CCV04	CCV04	CCV	02/12/25 16:13		Kareem	OK
52	CCB04	CCB04	CCB	02/12/25 16:17		Kareem	OK
53	Q1346-02DUP	SOIL-COMPDUP	DUP	02/12/25 16:21		Kareem	OK
54	Q1346-02L	SOIL-COMPL	SD	02/12/25 16:26		Kareem	OK
55	Q1346-02MS	SOIL-COMPMS	MS	02/12/25 16:30	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
56	Q1346-02MSD	SOIL-COMPMSD	MSD	02/12/25 16:34	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
57	Q1346-02A	SOIL-COMPA	PS	02/12/25 16:39	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
58	PB166680BL	PB166680BL	MB	02/12/25 16:43		Kareem	OK
59	PB166680BS	PB166680BS	LCS	02/12/25 16:47	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
60	Q1172-03	PT-MIN-WS	SAM	02/12/25 16:51		Kareem	OK
61	Q1172-04	PT-TM-WS	SAM	02/12/25 16:55		Kareem	OK
62	Q1346-01	SOIL-COMP	SAM	02/12/25 17:00		Kareem	OK
63	CCV05	CCV05	CCV	02/12/25 17:04		Kareem	OK
64	CCB05	CCB05	CCB	02/12/25 17:08		Kareem	OK
65	PB166704BL	PB166704BL	MB	02/12/25 17:12		Kareem	OK
66	PB166704BS	PB166704BS	LCS	02/12/25 17:17	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134704

Review By	kareem	Review On	2/13/2025 5:06:02 PM
Supervise By	JANVI	Supervise On	2/13/2025 5:07:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84204,MP84381,MP84383,MP84384,MP84385,MP84386,MP84388		
ICV Standard	MP84446		
CCV Standard	MP84392		
ICSA Standard	MP84230,MP84231		
CRI Standard			
LCS Standard	MP84387		
Chk Standard	MP84218,MP84219		

67	Q1346-03	CONCRETE	SAM	02/12/25 17:21		Kareem	OK
68	Q1353-01	346	SAM	02/12/25 17:25		Kareem	OK
69	Q1353-01DUP	346DUP	DUP	02/12/25 17:29		Kareem	OK
70	Q1353-01L	346L	SD	02/12/25 17:34		Kareem	OK
71	Q1353-01MS	346MS	MS	02/12/25 17:38	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
72	Q1353-01MSD	346MSD	MSD	02/12/25 17:42	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
73	Q1353-01A	346A	PS	02/12/25 17:46	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
74	Q1354-01	NB-08-021125	SAM	02/12/25 17:50		Kareem	OK
75	CCV06	CCV06	CCV	02/12/25 17:55		Kareem	OK
76	CCB06	CCB06	CCB	02/12/25 17:59		Kareem	OK
77	Q1172-06	PT-SIO2-WS	SAM	02/12/25 18:03		Kareem	OK
78	PB166414BL	PB166414BL	MB	02/12/25 18:08		Kareem	OK
79	PB166414BS	PB166414BS	LCS	02/12/25 18:12	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
80	PB166688BL	PB166688BL	MB	02/12/25 18:16		Kareem	OK
81	PB166688BS	PB166688BS	LCS	02/12/25 18:20	0.1 ML M6010 AND M6001 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
82	LR1	LR1	HIGH STD	02/12/25 18:24		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB134704

Review By	kareem	Review On	2/13/2025 5:06:02 PM
Supervise By	JANVI	Supervise On	2/13/2025 5:07:41 PM
STD. NAME	STD REF.#		
ICAL Standard	MP84204,MP84381,MP84383,MP84384,MP84385,MP84386,MP84388		
ICV Standard	MP84446		
CCV Standard	MP84392		
ICSA Standard	MP84230,MP84231		
CRI Standard			
LCS Standard	MP84387		
Chk Standard	MP84218,MP84219		

83	LR2	LR2	HIGH STD	02/12/25 18:29		Kareem	OK
84	CCV07	CCV07	CCV	02/12/25 18:34		Kareem	OK
85	CCB07	CCB07	CCB	02/12/25 18:38		Kareem	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 02/10/2025 Time : 09:10 Temp : 96 °C

End Digest Date: 02/10/2025 Time : 12:15 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. # 1

Dig Technician Signature: *[Signature]*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6002
LFS-2	0.25	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6126
1:1 HCL	5.00	MP84297
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1CELL #55 Temp: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/10/25 13:15	<i>[Signature]</i> met.dig	<i>[Signature]</i> met.dig
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166635BL	PBW635	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	20
PB166635BS	LCS635	<2	50	25	Colorless	Colorless	Clear	Clear	M6002,M6011	21
Q1324-01MS	WATER TREATMENT DISCHARGE MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6002,M6011	24
Q1324-01MSD	WATER TREATMENT DISCHARGE MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6002,M6011	25
Q1324-01DUP	WATER TREATMENT DISCHARGE DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	23
Q1324-01	WATER TREATMENT DISCHARGE	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	22



SAMPLE DATA

Report of Analysis

Client:	VERINA CONSULTING GROUP, LLC	Date Collected:	02/06/25 13:20
Project:	Rotor Clip NJ WTD - 2025	Date Received:	02/06/25
Client Sample ID:	WATER TREATMENT DISCHARGE	SDG No.:	Q1324
Lab Sample ID:	Q1324-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.10	OR	1	0.045	0.10	mg/L	02/07/25 09:10	02/07/25 12:33	SM 4500-NH3 B plus G-11
Residual Chlorine	1.12	H	1	0.016	0.10	mg/L		02/07/25 10:42	SM 4500-Cl G-11

Comments: _____

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

H = Sample Analysis Out Of Hold Time

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

Report of Analysis

Client:	VERINA CONSULTING GROUP, LLC	Date Collected:	02/06/25 13:20
Project:	Rotor Clip NJ WTD - 2025	Date Received:	02/06/25
Client Sample ID:	WATER TREATMENT DISCHARGEDL	SDG No.:	Q1324
Lab Sample ID:	Q1324-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.40	D	2	0.090	0.20	mg/L	02/07/25 09:10	02/07/25 13:34	SM 4500-NH3 B plus G-11

Comments:

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
H = Sample Analysis Out Of Hold Time

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



QC RESULT SUMMARY



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

Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Project: Rotor Clip NJ WTD - 2025

RunNo.: LB134619

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Residual Chlorine	mg/L	0.368	0.4	92	90-110	02/07/2025
Sample ID: CCV1 Residual Chlorine	mg/L	0.378	0.4	94	90-110	02/07/2025
Sample ID: CCV2 Residual Chlorine	mg/L	0.378	0.4	94	90-110	02/07/2025

Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Project: Rotor Clip NJ WTD - 2025

RunNo.: LB134623

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1	1	100	90-110	02/07/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.99	1	99	90-110	02/07/2025
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	02/07/2025
Sample ID: CCV3 Ammonia as N	mg/L	1.1	1	110	90-110	02/07/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.97	1	97	90-110	02/07/2025



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

Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Project: Rotor Clip NJ WTD - 2025

RunNo.: LB134619

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	02/07/2025
Sample ID: CCB1 Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	02/07/2025
Sample ID: CCB2 Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	02/07/2025

Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Project: Rotor Clip NJ WTD - 2025

RunNo.: LB134623

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025

Preparation Blank Summary

Client: VERINA CONSULTING GROUP, LLC

SDG No.: Q1324

Project: Rotor Clip NJ WTD - 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134619BL							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	02/07/2025
Sample ID: PB166612BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025

Matrix Spike Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1324-01
Client ID:	WATER TREATMENT DISCHARGEMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Residual Chlorine	mg/L	71-148	1.51		1.12		0.4	1	98		02/07/2025

Matrix Spike Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1324-01
Client ID:	WATER TREATMENT DISCHARGEMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Residual Chlorine	mg/L	71-148	1.46		1.12		0.4	1	85		02/07/2025

Matrix Spike Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1325-01
Client ID:	DSN002MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	7.70	OR	6.90	OR	1	1	80		02/07/2025

Matrix Spike Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1325-01
Client ID:	DSN002MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	8.20	OR	6.90	OR	1	1	130	*	02/07/2025

Duplicate Sample Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1324-01
Client ID:	WATER TREATMENT DISCHARGEDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Residual Chlorine	mg/L	+/-20	1.12		1.17		1	4.37		02/07/2025

Duplicate Sample Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1324-01
Client ID:	WATER TREATMENT DISCHARGEMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Residual Chlorine	mg/L	+/-20	1.51		1.46		1	3.37		02/07/2025

Duplicate Sample Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1325-01
Client ID:	DSN002DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	6.90	OR	6.90	OR	1	0		02/07/2025

Duplicate Sample Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Sample ID:	Q1325-01
Client ID:	DSN002MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	7.70	OR	8.20	OR	1	6		02/07/2025

Laboratory Control Sample Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Run No.:	LB134619

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134619BS							
Residual Chlorine	mg/L	0.4	0.39		97	1	90-110	02/07/2025

Laboratory Control Sample Summary

Client:	VERINA CONSULTING GROUP, LLC	SDG No.:	Q1324
Project:	Rotor Clip NJ WTD - 2025	Run No.:	LB134623

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166612BS							
Ammonia as N	mg/L	1	1.00		100	1	90-110	02/07/2025

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134619

Review By	Niha	Review On	2/7/2025 12:55:11 PM
Supervise By	Iwona	Supervise On	2/7/2025 2:49:27 PM
SubDirectory	LB134619	Test	Residual Chlorine
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111848,WP111847,WP111842,WP111843,WP111844,WP111841,WP111845,WP111846,W3147		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	02/07/25 10:00		Niha	OK
2	CAL2	CAL2	CAL	02/07/25 10:03		Niha	OK
3	CAL3	CAL3	CAL	02/07/25 10:06		Niha	OK
4	CAL4	CAL4	CAL	02/07/25 10:09		Niha	OK
5	CAL5	CAL5	CAL	02/07/25 10:12		Niha	OK
6	CAL6	CAL6	CAL	02/07/25 10:15		Niha	OK
7	ICV	ICV	ICV	02/07/25 10:18		Niha	OK
8	ICB	ICB	ICB	02/07/25 10:21		Niha	OK
9	CCV1	CCV1	CCV	02/07/25 10:24		Niha	OK
10	CCB1	CCB1	CCB	02/07/25 10:30		Niha	OK
11	LB134619BL	LB134619BL	MB	02/07/25 10:33		Niha	OK
12	LB134619BS	LB134619BS	LCS	02/07/25 10:36		Niha	OK
13	Q1168-09	MDL-WATER-03-QT1	SAM	02/07/25 10:39		Niha	OK
14	Q1324-01	WATER TREATMENT	SAM	02/07/25 10:42		Niha	OK
15	Q1324-01DUP	WATER TREATMENT	DUP	02/07/25 10:45		Niha	OK
16	Q1324-01MS	WATER TREATMENT	MS	02/07/25 10:48		Niha	OK
17	Q1324-01MSD	WATER TREATMENT	MSD	02/07/25 10:51		Niha	OK
18	CCV2	CCV2	CCV	02/07/25 10:54		Niha	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134619

Review By	Niha	Review On	2/7/2025 12:55:11 PM
Supervise By	Iwona	Supervise On	2/7/2025 2:49:27 PM
SubDirectory	LB134619	Test	Residual Chlorine
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111848,WP111847,WP111842,WP111843,WP111844,WP111841,WP111845,WP111846,W3147		

19	CCB2	CCB2	CCB	02/07/25 10:57		Niha	OK
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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134623

Review By	rubina	Review On	2/10/2025 8:55:56 AM
Supervise By	Iwona	Supervise On	2/10/2025 9:22:59 AM
SubDirectory	LB134623	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111829		
ICV Standard	WP111831		
CCV Standard	WP111830		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP111745,WP111385,WP111660,WP111832		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	02/07/25 11:18		rubina	OK
2	0.1PPM	0.1PPM	CAL2	02/07/25 11:18		rubina	OK
3	0.2PPM	0.2PPM	CAL3	02/07/25 11:18		rubina	OK
4	0.4PPM	0.4PPM	CAL4	02/07/25 11:18		rubina	OK
5	1.0PPM	1.0PPM	CAL5	02/07/25 11:18		rubina	OK
6	1.3PPM	1.3PPM	CAL6	02/07/25 11:18		rubina	OK
7	2.0PPM	2.0PPM	CAL7	02/07/25 11:18		rubina	OK
8	ICV1	ICV1	ICV	02/07/25 12:22		rubina	OK
9	ICB1	ICB1	ICB	02/07/25 12:22		rubina	OK
10	CCV1	CCV1	CCV	02/07/25 12:22		rubina	OK
11	CCB1	CCB1	CCB	02/07/25 12:22		rubina	OK
12	RL	RL	SAM	02/07/25 12:22		rubina	OK
13	PB166612BL	PB166612BL	MB	02/07/25 12:22		rubina	OK
14	PB166612BS	PB166612BS	LCS	02/07/25 12:33		rubina	OK
15	Q1316-01	001-WILLETS-PT-BL	SAM	02/07/25 12:33	High	rubina	Dilution
16	Q1316-02	002-35TH-AVE(FEB)	SAM	02/07/25 12:33	High	rubina	Dilution
17	Q1322-04	MANHOLE	SAM	02/07/25 12:33		rubina	OK
18	Q1324-01	WATER TREATMENT	SAM	02/07/25 12:33	High	rubina	Dilution

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134623

Review By	rubina	Review On	2/10/2025 8:55:56 AM
Supervise By	Iwona	Supervise On	2/10/2025 9:22:59 AM
SubDirectory	LB134623	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111829		
ICV Standard	WP111831		
CCV Standard	WP111830		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP111745,WP111385,WP111660,WP111832		

19	Q1325-01	DSN002	SAM	02/07/25 12:33	High	rubina	Dilution
20	Q1325-01DUP	DSN002DUP	DUP	02/07/25 12:33		rubina	OK
21	CCV2	CCV2	CCV	02/07/25 12:44		rubina	OK
22	CCB2	CCB2	CCB	02/07/25 12:44		rubina	OK
23	Q1325-01MS	DSN002MS	MS	02/07/25 12:44		rubina	OK
24	Q1325-01MSD	DSN002MSD	MSD	02/07/25 12:44		rubina	OK
25	Q1325-03	DSN001	SAM	02/07/25 12:44		rubina	OK
26	Q1325-05	DSN003	SAM	02/07/25 12:44	High	rubina	Dilution
27	PB166614BL	PB166614BL	MB	02/07/25 12:44		rubina	OK
28	PB166614BS	PB166614BS	LCS	02/07/25 12:44		rubina	OK
29	CCV3	CCV3	CCV	02/07/25 12:52		rubina	OK
30	CCB3	CCB3	CCB	02/07/25 12:52		rubina	OK
31	Q1168-09	MDL-WATER-03-QT1	SAM	02/07/25 13:25		rubina	OK
32	Q1168-03	MDL-SOIL-03-QT1-20	SAM	02/07/25 13:25		rubina	OK
33	Q1316-01DL	001-WILLETTS-PT-BLV	SAM	02/07/25 13:34	Report 10X	rubina	Confirms
34	Q1316-02DL	002-35TH-AVE(FEB)D	SAM	02/07/25 13:34	Report 10X	rubina	Confirms
35	Q1324-01DL	WATER TREATMENT	SAM	02/07/25 13:34	Report 2X	rubina	Confirms
36	Q1325-01DL	DSN002DL	SAM	02/07/25 13:35	Report 10X	rubina	Confirms
37	Q1325-05DL	DSN003DL	SAM	02/07/25 13:35	Report 10X	rubina	Confirms
38	CCV4	CCV4	CCV	02/07/25 13:35		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134623

Review By	rubina	Review On	2/10/2025 8:55:56 AM
Supervise By	Iwona	Supervise On	2/10/2025 9:22:59 AM
SubDirectory	LB134623	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111829		
ICV Standard	WP111831		
CCV Standard	WP111830		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP111745,WP111385,WP111660,WP111832		

39	CCB4	CCB4	CCB	02/07/25 13:35		rubina	OK
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LAB CHRONICLE

OrderID:	Q1324	OrderDate:	2/6/2025 1:55:00 PM
Client:	VERINA CONSULTING GROUP, LLC	Project:	Rotor Clip NJ WTD - 2025
Contact:	Michael Valenzi	Location:	D11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1324-01	WATER TREATMENT DISCHARGE	WATER			02/06/25 13:20	02/07/25		02/06/25
			Ammonia	SM4500-NH3			02/07/25 12:33	
			Residual Chlorine	SM4500 Cl G			02/07/25 10:42	
Q1324-01DL	WATER TREATMENT DISCHARGEDL	WATER			02/06/25 13:20	02/07/25		02/06/25
			Ammonia	SM4500-NH3			02/07/25 13:34	

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Start Digest Date: 02/07/2025 Time : 09:10 Temp : 150 °C

Matrix : WATER

End Digest Date: 02/07/2025 Time : 10:10 Temp : 160 °C

Pipette ID : WC

if batch 02/07/2025 10:30 150°C RM
02/07/2025 11:30 160°C

Balance ID : N/A

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP111420
MS/MSD SPIKE SOL.	1.0ML	WP111419
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP111419
MDL	0.8ML	WP111832

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP110335
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP111604,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/07/2025 11:45	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166612BL	PBW612	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB166612BS	LCS612	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1168-09	MDL-WATER-03-QT1-2025	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1316-01	001-WILLETS-PT-BLVD(FEB)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1316-02	002-35TH-AVE(FEB)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1322-04	MANHOLE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1324-01	WATER TREATMENT DISCHARGE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-01	DSN002	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-01DUP	DSN002DUP	50	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1325-01MS	DSN002MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-01MSD	DSN002MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-03	DSN001	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-05	DSN003	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A