

## **DATA PACKAGE**

GENERAL CHEMISTRY  
METALS

**PROJECT NAME : PARSIPPANY WASTEWATER QUARTERLY 2025**

**METEM A GE POWER BUSINESS**

**700 Parsippany Road**

**Parsippany, NJ - 07054**

**Phone No: 973-887-6635**

**ORDER ID : Q1689**

**ATTENTION : Sundas Pervez**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** Q1689

**Project ID :** Parsippany Wastewater Quarterly 2025

**Client :** METEM A GE POWER Business

**Lab Sample Number**

Q1689-01

**Client Sample Number**

Q2 WASTEWATER

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 : \_\_\_\_\_

Date: 4/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

**CASE NARRATIVE**

**METEM A GE POWER Business**

**Project Name: Parsippany Wastewater Quarterly 2025**

**Project # N/A**

**Chemtech Project # Q1689**

**Test Name: Metals Group5**

**A. Number of Samples and Date of Receipt:**

1 Water sample was received on 04/01/2025.

**B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Field pH and Metals Group5. This data package contains results for Metals Group5.

**C. Analytical Techniques:**

The analysis and digestion of Metals Group5 was based on method 200.7.

**D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (Q2 WASTEWATERMS) analysis met criteria for all samples except for Silver due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (Q2 WASTEWATERMSD) analysis met criteria for all samples except for Silver 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 criteria for all samples.

**E. Additional Comments:**

Due to bad matrix and a high concentration of elements, the sample Q1689 and QC analyze with straight 10X Dilution.

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Signature\_\_\_\_\_



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**CASE NARRATIVE**

**METEM A GE POWER Business**

**Project Name: Parsippany Wastewater Quarterly 2025**

**Project # N/A**

**Chemtech Project # Q1689**

**Test Name: Cyanide,Field pH**

**A. Number of Samples and Date of Receipt:**

1 Water sample was received on 04/01/2025.

**B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Field pH and Metals Group5. This data package contains results for Cyanide,Field pH.

**C. Analytical Techniques:**

The analysis of Cyanide was based on method SM4500-CN C,E and The analysis of Field pH was based on method SM4500-H B.

**D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

**E. Additional Comments:**

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Signature\_\_\_\_\_

## 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

**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

Project #: Q1689

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)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

**COVER PAGE:**

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

**CHAIN OF CUSTODY:**

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

**ANALYTICAL:**

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 04/11/2025





# SAMPLE DATA

### Report of Analysis

Client:	METEM A GE POWER Business	Date Collected:	04/01/25
Project:	Parsippany Wastewater Quarterly 2025	Date Received:	04/01/25
Client Sample ID:	Q2 WASTEWATER	SDG No.:	Q1689
Lab Sample ID:	Q1689-01	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.
7440-43-9	Cadmium	3.10	UD	10	3.10	30.0	ug/L	04/03/25 09:10	04/09/25 15:09	EPA 200.7	
7440-47-3	Chromium	126	D	10	5.30	50.0	ug/L	04/03/25 09:10	04/09/25 15:09	EPA 200.7	
7440-50-8	Copper	18.9	UD	10	18.9	100	ug/L	04/03/25 09:10	04/09/25 15:09	EPA 200.7	
7439-92-1	Lead	12.1	UD	10	12.1	60.0	ug/L	04/03/25 09:10	04/09/25 15:09	EPA 200.7	
7440-02-0	Nickel	1450	D	10	19.0	200	ug/L	04/03/25 09:10	04/09/25 15:09	EPA 200.7	
7440-22-4	Silver	8.10	UDN10		8.10	50.0	ug/L	04/03/25 09:10	04/09/25 15:09	EPA 200.7	
7440-66-6	Zinc	86.2	JD	10	20.0	200	ug/L	04/03/25 09:10	04/09/25 15:09	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group5			

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

### LAB CHRONICLE

<b>OrderID:</b> Q1689	<b>OrderDate:</b> 4/1/2025 12:11:00 PM
<b>Client:</b> METEM A GE POWER Business	<b>Project:</b> Parsippany Wastewater Quarterly 2025
<b>Contact:</b> Sundas Pervez	<b>Location:</b> F11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1689-01	Q2 WASTEWATER	Water	Metals Group5	200.7	04/01/25	04/03/25	04/09/25	04/01/25



# SAMPLE DATA

### Report of Analysis

Client:	METEM A GE POWER Business	Date Collected:	04/01/25 11:35
Project:	Parsippany Wastewater Quarterly 2025	Date Received:	04/01/25
Client Sample ID:	Q2 WASTEWATER	SDG No.:	Q1689
Lab Sample ID:	Q1689-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0012	U	1	0.0012	0.0050	mg/L	04/04/25 08:00	04/04/25 12:04	SM 4500-CN C-16 plus E-16
Field pH	7.69		1	0	0	pH		04/01/25 11:37	SM4500-H B

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  
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### LAB CHRONICLE

<b>OrderID:</b> Q1689	<b>OrderDate:</b> 4/1/2025 12:11:00 PM
<b>Client:</b> METEM A GE POWER Business	<b>Project:</b> Parsippany Wastewater Quarterly 2025
<b>Contact:</b> Sundas Pervez	<b>Location:</b> F11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1689-01	Q2 WASTEWATER	WATER			04/01/25 11:35			04/01/25
			Cyanide	SM4500-CN C,E		04/04/25	04/04/25 12:04	
			Field pH	SM4500-H B			04/01/25 11:37	



# SHIPPING DOCUMENTS





**FIELD SAMPLING LOG**

Client Name: Metem A GE power Business

Project Name: Parsippany wastewater

Client Address: 700 Parsippany Road

Project Location: Parsippany

Client Rep on Site: Sundas Pervez

Cooler Custody Seal: N/A

Sampling Date: 4-1-25

Temperature Correction Factor (°C): +3

Arrival Time: 1050

Departure Time: 1150

**FIELD EQUIPMENT CALIBRATION**

pH Calibration (SM4500-H B/9040C)				
Calibration				ICV (± 0.1 pH unit)
	7.00 Buffer	4.00 Buffer	10.00 Buffer	7.00 Buffer
	W 3071	W 3107	W 3094	W 3093
Time	1054	1056	1058	1100
Temp °C	27.42 <sup>c</sup>	27.51 <sup>c</sup>	27.37 <sup>c</sup>	27.53 <sup>c</sup>
pH	7.00	4.00	10.00	7.00

**FIELD EQUIPMENT CALIBRATION**

Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A)		
Calibration (± 1%) (99% -101%)		ICV (± 1%) (99% -101%)
	WP	WP
Time		
Temp °C		
Reading (mS/cm)		

Sampler Signature/Date:

 4-1-25

Supervisor Review/Date:

 4/1/25

**Laboratory Certification**

Certified By	License No.
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