

## Cover Page

**Order ID :** Q1879

**Project ID :** Tank Farm - Acid Analysis

**Client :** METEM A GE POWER Business

### Lab Sample Number

Q1879-01  
Q1879-02  
Q1879-03  
Q1879-04

### Client Sample Number

STEM-31-SULFURIC-ACID  
STEM-32-NITRIC-ACID  
STEM-46-NITRIC-ACID  
ACID-MIXTURE-TF-CONTAINMENT

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: 5/6/2025

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: Tank Farm - Acid Analysis**

**Project # N/A**

**Chemtech Project # Q1879**

**Test Name: Metals ICP-TAL,Mercury**

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

4 Water samples were received on 04/24/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Acidity, Alkalinity, Ammonia, Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, TKN and Total Nitrogen. This data package contains results for Metals ICP-TAL,Mercury.

### **C. Analytical Techniques:**

The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

Sample STEM-31-SULFURIC-ACID was diluted due to high concentrations for Chromium, Cobalt, Nickel & Sample STEM-32-NITRIC-ACID was diluted due to high concentrations for Cobalt, and Nickel & Sample STEM-46-NITRIC-ACID was diluted due to high concentrations for Nickel & Sample ACID-MIXTURE-TF-CONTAINMENT was diluted due to high concentrations for Cobalt, Nickel.

The Blank Spike met requirements for all samples.

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

The Calibration met the requirements.

### **E. Additional Comments:**

FAX and Hard copy not match for samples some high over range parameters as at the time of fax , its Dilutions was not analyzed, so preliminary results was Reported , after that its dilutions are analyzed , so in Hardcopy correct data reported. And for Q1879-03 sample, at time of fax its reported from straight 5X Dilution and after its Original sample analyzed so in Hard copy original analysis reported and a parameter which is high is reported from its Dilution..

Sample Q1879-01, Q1879-02, Q1879-04 was analyzed straight 5X Dilutions due to bad sample matrix.



Due to limited volume of sample, DUP, MS and MSD were not performed for Metals and Mercury test.

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## **CASE NARRATIVE**

**METEM A GE POWER Business**

**Project Name: Tank Farm - Acid Analysis**

**Project # N/A**

**Chemtech Project # Q1879**

**Test Name: pH,Alkalinity,Phenolics,TKN,Ammonia,Acidity**

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

4 Water samples were received on 04/24/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Acidity, Alkalinity, Ammonia, Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, TKN and Total Nitrogen. This data package contains results for pH,Alkalinity,Phenolics,TKN,Ammonia,Acidity.

### **C. Analytical Techniques:**

The analysis of pH was based on method 9040C, The analysis of Phenolics was based on method 9065, The analysis of Acidity was based on method SM2310 B, The analysis of Alkalinity was based on method SM2320 B, The analysis of TKN was based on method SM4500 N Org B or C and The analysis of Ammonia was based on method SM4500-NH3.

### **D. QA/ QC Samples:**

The Holding Times were met for all samples except for ACID-MIXTURE-TF-CONTAINMENT of pH, for STEM-31-SULFURIC-ACID of pH.for STEM-32-NITRIC-ACID of pH.for STEM-46-NITRIC-ACID of pH as samples were receive out of holding time.

Sample ACID-MIXTURE-TF-CONTAINMENT was diluted due to high concentrations for Ammonia as N.

The Blank Spike met requirements for all samples.

The 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:**

Due to limited volume of sample, 5ML was taken as a initial volume and DUP, MS and MSD was not performed for Ammonia, TKN and Phenolics.

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Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

<b>J</b>	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).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	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
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	Sample Analysis Out Of Hold Time

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q1879

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: SOHIL JODHANI

Date: 05/06/2025