

## 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<br>“P” for ICP instrument<br>“PM” for ICP when Microwave Digestion is used<br>“CV” for Manual Cold Vapor AA<br>“AV” for automated Cold Vapor AA<br>“CA” for MIDI-Distillation Spectrophotometric<br>“AS” for Semi -Automated Spectrophotometric<br>“C” for Manual Spectrophotometric<br>“T” for Titrimetric<br>“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                                                                                                                                                                                                                                                                                                                                              |

## LAB CHRONICLE

|                 |                              |                   |                          |
|-----------------|------------------------------|-------------------|--------------------------|
| <b>OrderID:</b> | Q3785                        | <b>OrderDate:</b> | 12/4/2025 2:56:00 PM     |
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>Project:</b>   | Rotor Clip NJ WTD - 2025 |
| <b>Contact:</b> | Michael Valenzi              | <b>Location:</b>  | A11                      |

| LabID    | ClientID                     | Matrix | Test              | Method      | Sample Date       | Prep Date | Anal Date         | Received |
|----------|------------------------------|--------|-------------------|-------------|-------------------|-----------|-------------------|----------|
| Q3785-01 | WATER-TREATMENT<br>DISCHARGE | WATER  |                   |             | 12/04/25<br>11:00 | 12/08/25  | 12/08/25<br>12:55 | 12/04/25 |
|          |                              |        | Cyanide           | 9012B       |                   |           |                   |          |
|          |                              |        | Oil and Grease    | 1664A       |                   |           | 12/08/25<br>12:37 |          |
| Q3785-04 | WATER-TREATMENT<br>DISCHARGE | WATER  |                   |             | 12/04/25<br>11:05 | 12/04/25  | 12/05/25<br>11:40 | 12/04/25 |
|          |                              |        | Ammonia           | SM4500-NH3  |                   |           |                   |          |
|          |                              |        | BOD5              | SM5210 B    |                   |           | 12/05/25<br>17:00 |          |
|          |                              |        | COD               | SM5220 D    |                   |           | 12/05/25<br>12:50 |          |
|          |                              |        | Residual Chlorine | SM4500 Cl G |                   |           | 12/04/25<br>17:32 |          |
|          |                              |        | TSS               | SM2540 D    |                   |           | 12/04/25<br>16:00 |          |



# SAMPLE DATA

## Report of Analysis

Client: VERINA CONSULTING GROUP, LLC  
Project: Rotor Clip NJ WTD - 2025  
Client Sample ID: WATER-TREATMENT DISCHARGE  
Lab Sample ID: Q3785-01

Date Collected: 12/04/25 11:00  
Date Received: 12/04/25  
SDG No.: Q3785  
Matrix: WATER  
% Solid: 0

| Parameter      | Conc.   | Qua. | DF | MDL     | LOQ / CRQL | Units | Prep Date      | Date Ana.      | Ana Met. |
|----------------|---------|------|----|---------|------------|-------|----------------|----------------|----------|
| Cyanide        | 0.00096 | U    | 1  | 0.00096 | 0.0050     | mg/L  | 12/08/25 08:50 | 12/08/25 12:55 | 9012B    |
| Oil and Grease | 3.30    | J    | 1  | 0.29    | 5.00       | mg/L  |                | 12/08/25 12:37 | 1664A    |

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  
Project: Rotor Clip NJ WTD - 2025  
Client Sample ID: WATER-TREATMENT DISCHARGE  
Lab Sample ID: Q3785-04

Date Collected: 12/04/25 11:05  
Date Received: 12/04/25  
SDG No.: Q3785  
Matrix: WATER  
% Solid: 0

| Parameter         | Conc. | Qua. | DF | MDL   | LOQ / CRQL | Units | Prep Date      | Date Ana.      | Ana Met.                   |
|-------------------|-------|------|----|-------|------------|-------|----------------|----------------|----------------------------|
| Ammonia as N      | 0.037 | J    | 1  | 0.030 | 0.10       | mg/L  | 12/04/25 15:25 | 12/05/25 11:40 | SM 4500-NH3<br>B plus G-21 |
| BOD5              | 0.20  | U    | 1  | 0.20  | 2.00       | mg/L  |                | 12/05/25 17:00 | SM 5210 B-16               |
| COD               | 1.50  | U    | 1  | 1.50  | 10.0       | mg/L  |                | 12/05/25 12:50 | SM 5220 D-11               |
| Residual Chlorine | 0.65  | H    | 1  | 0.023 | 0.10       | mg/L  |                | 12/04/25 17:32 | SM 4500-Cl<br>G-11         |
| TSS               | 1.00  | U    | 1  | 1.00  | 4.00       | mg/L  |                | 12/04/25 16:00 | SM 2540 D-20               |

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.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138119

| Analyte                                     | Units | Result | True Value | %<br>Recovery | Acceptance<br>Window (%R) | Analysis<br>Date |
|---------------------------------------------|-------|--------|------------|---------------|---------------------------|------------------|
| Sample ID: <b>ICV</b><br>Residual Chlorine  | mg/L  | 0.386  | 0.4        | 96            | 90-110                    | 12/04/2025       |
| Sample ID: <b>CCV1</b><br>Residual Chlorine | mg/L  | 0.397  | 0.4        | 99            | 90-110                    | 12/04/2025       |
| Sample ID: <b>CCV2</b><br>Residual Chlorine | mg/L  | 0.386  | 0.4        | 96            | 90-110                    | 12/04/2025       |

## Initial and Continuing Calibration Verification

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138124

| Analyte    |             | Units | Result | True Value | %<br>Recovery | Acceptance<br>Window (%R) | Analysis<br>Date |
|------------|-------------|-------|--------|------------|---------------|---------------------------|------------------|
| Sample ID: | <b>ICV</b>  |       |        |            |               |                           |                  |
| COD        |             | mg/L  | 50.173 | 50         | 100           | 95-105                    | 09/08/2025       |
| Sample ID: | <b>CCV1</b> |       |        |            |               |                           |                  |
| COD        |             | mg/L  | 48.150 | 50         | 96            | 95-105                    | 12/05/2025       |
| Sample ID: | <b>CCV2</b> |       |        |            |               |                           |                  |
| COD        |             | mg/L  | 48.150 | 50         | 96            | 95-105                    | 12/05/2025       |
| Sample ID: | <b>CCV3</b> |       |        |            |               |                           |                  |
| COD        |             | mg/L  | 49.161 | 50         | 98            | 95-105                    | 12/05/2025       |

## Initial and Continuing Calibration Verification

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138125

| Analyte                                | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|----------------------------------------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: <b>ICV1</b><br>Ammonia as N | mg/L  | 1      | 1          | 100        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV1</b><br>Ammonia as N | mg/L  | 1      | 1          | 100        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV2</b><br>Ammonia as N | mg/L  | 1      | 1          | 100        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV3</b><br>Ammonia as N | mg/L  | 1      | 1          | 100        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV4</b><br>Ammonia as N | mg/L  | 1      | 1          | 100        | 90-110                 | 12/05/2025    |

## Initial and Continuing Calibration Verification

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138153

| Analyte    |      | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|------------|------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: | ICV1 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.098  | 0.099      | 99         | 90-110                 | 12/08/2025    |
| Sample ID: | CCV1 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.25   | 0.25       | 100        | 90-110                 | 12/08/2025    |
| Sample ID: | CCV2 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.25   | 0.25       | 100        | 90-110                 | 12/08/2025    |
| Sample ID: | CCV3 |       |        |            |            |                        |               |
| Cyanide    |      | mg/L  | 0.26   | 0.25       | 104        | 90-110                 | 12/08/2025    |



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### Initial and Continuing Calibration Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138119

| Analyte                                     | Units | Result   | Acceptance<br>Limits | Conc<br>Qual | MDL   | RDL | Analysis<br>Date |
|---------------------------------------------|-------|----------|----------------------|--------------|-------|-----|------------------|
| Sample ID: <b>ICB</b><br>Residual Chlorine  | mg/L  | < 0.0500 | 0.0500               | U            | 0.023 | 0.1 | 12/04/2025       |
| Sample ID: <b>CCB1</b><br>Residual Chlorine | mg/L  | < 0.0500 | 0.0500               | U            | 0.023 | 0.1 | 12/04/2025       |
| Sample ID: <b>CCB2</b><br>Residual Chlorine | mg/L  | < 0.0500 | 0.0500               | U            | 0.023 | 0.1 | 12/04/2025       |

### Initial and Continuing Calibration Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138124

| Analyte                       | Units | Result   | Acceptance Limits | Conc Qual | MDL  | RDL | Analysis Date |
|-------------------------------|-------|----------|-------------------|-----------|------|-----|---------------|
| Sample ID: <b>ICB</b><br>COD  | mg/L  | < 5.0000 | 5.0000            | U         | 1.50 | 10  | 09/08/2025    |
| Sample ID: <b>CCB1</b><br>COD | mg/L  | < 5.0000 | 5.0000            | U         | 1.50 | 10  | 12/05/2025    |
| Sample ID: <b>CCB2</b><br>COD | mg/L  | < 5.0000 | 5.0000            | U         | 1.50 | 10  | 12/05/2025    |
| Sample ID: <b>CCB3</b><br>COD | mg/L  | < 5.0000 | 5.0000            | U         | 1.50 | 10  | 12/05/2025    |

### Initial and Continuing Calibration Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138125

| Analyte                                | Units | Result   | Acceptance Limits | Conc Qual | MDL   | RDL | Analysis Date |
|----------------------------------------|-------|----------|-------------------|-----------|-------|-----|---------------|
| Sample ID: <b>ICB1</b><br>Ammonia as N | mg/L  | < 0.0500 | 0.0500            | U         | 0.030 | 0.1 | 12/05/2025    |
| Sample ID: <b>CCB1</b><br>Ammonia as N | mg/L  | < 0.0500 | 0.0500            | U         | 0.030 | 0.1 | 12/05/2025    |
| Sample ID: <b>CCB2</b><br>Ammonia as N | mg/L  | < 0.0500 | 0.0500            | U         | 0.030 | 0.1 | 12/05/2025    |
| Sample ID: <b>CCB3</b><br>Ammonia as N | mg/L  | < 0.0500 | 0.0500            | U         | 0.030 | 0.1 | 12/05/2025    |
| Sample ID: <b>CCB4</b><br>Ammonia as N | mg/L  | < 0.0500 | 0.0500            | U         | 0.030 | 0.1 | 12/05/2025    |

### Initial and Continuing Calibration Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

**RunNo.:** LB138153

| Analyte                           | Units | Result   | Acceptance Limits | Conc Qual | MDL     | RDL   | Analysis Date |
|-----------------------------------|-------|----------|-------------------|-----------|---------|-------|---------------|
| Sample ID: <b>ICB1</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00096 | 0.005 | 12/08/2025    |
| Sample ID: <b>CCB1</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00096 | 0.005 | 12/08/2025    |
| Sample ID: <b>CCB2</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00096 | 0.005 | 12/08/2025    |
| Sample ID: <b>CCB3</b><br>Cyanide | mg/L  | < 0.0025 | 0.0025            | U         | 0.00096 | 0.005 | 12/08/2025    |

## Preparation Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC

**SDG No.:** Q3785

**Project:** Rotor Clip NJ WTD - 2025

| Analyte                                           | Units | Result   | Acceptance Limits | Conc Qual | MDL     | RDL   | Analysis Date |
|---------------------------------------------------|-------|----------|-------------------|-----------|---------|-------|---------------|
| Sample ID: <b>LB138118BL</b><br>TSS               | mg/L  | 1        | 2.0000            | J         | 1       | 4     | 12/04/2025    |
| Sample ID: <b>LB138119BL</b><br>Residual Chlorine | mg/L  | < 0.0500 | 0.0500            | U         | 0.023   | 0.1   | 12/04/2025    |
| Sample ID: <b>LB138124BL</b><br>COD               | mg/L  | < 5.0000 | 5.0000            | U         | 1.5     | 10.0  | 12/05/2025    |
| Sample ID: <b>LB138133BL</b><br>BOD5              | mg/L  | < 0.2000 | 0.2000            | U         | 0.20    | 2.0   | 12/05/2025    |
| Sample ID: <b>LB138150BL</b><br>Oil and Grease    | mg/L  | < 2.5000 | 2.5000            | U         | 0.29    | 5.0   | 12/08/2025    |
| Sample ID: <b>PB170830BL</b><br>Ammonia as N      | mg/L  | < 0.0500 | 0.0500            | U         | 0.03    | 0.1   | 12/05/2025    |
| Sample ID: <b>PB170853BL</b><br>Cyanide           | mg/L  | < 0.0025 | 0.0025            | U         | 0.00096 | 0.005 | 12/08/2025    |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3760-01 |
| <b>Client ID:</b> | 001 Willets Pt Blvd (Dec)MS  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte      | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|--------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Ammonia as N | mg/L  | 75-125                 | 3.90             | OR                 | 2.90             | OR                 | 1              | 1                  | 100      |      | 12/05/2025       |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3760-01 |
| <b>Client ID:</b> | 001 Willets Pt Blvd (Dec)MSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte      | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|--------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Ammonia as N | mg/L  | 75-125                 | 4.00             | OR                 | 2.90             | OR                 | 1              | 1                  | 110      |      | 12/05/2025       |

### Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3772-01 |
| <b>Client ID:</b> | EFFLUENTMS                   | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 31.1             |                    | 10.2             |                    | 20.0           | 1                  | 105      |      | 12/08/2025       |

### Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3772-01 |
| <b>Client ID:</b> | EFFLUENTMSD                  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 30.9             |                    | 10.2             |                    | 20.0           | 1                  | 104      |      | 12/08/2025       |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMENT DISCHARGEMS  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Cyanide | mg/L  | 75-125                 | 0.039            |                    | 0.00096          | U                  | 0.04           | 1                  | 98       |      | 12/08/2025       |

### Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMENT DISCHARGEMSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Cyanide | mg/L  | 75-125                 | 0.039            |                    | 0.00096          | U                  | 0.04           | 1                  | 98       |      | 12/08/2025       |

### Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMEN DISCHARGEMS   | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 23.8             |                    | 3.30             | J                  | 20.0           | 1                  | 103      |      | 12/08/2025       |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMEN DISCHARGEMSD  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 24.1             |                    | 3.30             | J                  | 20.0           | 1                  | 104      |      | 12/08/2025       |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-04 |
| <b>Client ID:</b> | WATER-TREATMENT DISCHARGEMS  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte           | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|-------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| COD               | mg/L  | 75-125                 | 48.2             |                    | 1.50             | U                  | 50.0           | 1                  | 96       |      | 12/05/2025       |
| Residual Chlorine | mg/L  | 71-148                 | 1.01             |                    | 0.65             |                    | 0.4            | 1                  | 91       |      | 12/04/2025       |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-04 |
| <b>Client ID:</b> | WATER-TREATMENT DISCHARGEMSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte           | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|-------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| COD               | mg/L  | 75-125                 | 47.1             |                    | 1.50             | U                  | 50.0           | 1                  | 94       |      | 12/05/2025       |
| Residual Chlorine | mg/L  | 71-148                 | 1.02             |                    | 0.65             |                    | 0.4            | 1                  | 93       |      | 12/04/2025       |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3793-01 |
| <b>Client ID:</b> | Q3793-01MS                   | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 397              |                    | 377              |                    | 20.0           | 1                  | 103      |      | 12/08/2025       |

## Matrix Spike Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3793-01 |
| <b>Client ID:</b> | Q3793-01MSD                  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 398              |                    | 377              |                    | 20.0           | 1                  | 107      |      | 12/08/2025       |

## Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3760-01 |
| <b>Client ID:</b> | 001 Willets Pt Blvd (Dec)DUP | <b>Percent Solids for Spike Sample:</b> | 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            | 2.90          | OR              | 2.90             | OR              | 1               | 0      |      | 12/05/2025    |
| Ammonia as N | mg/L  | +/-20            | 2.70          | D               | 2.70             | D               | 2               | 0      |      | 12/05/2025    |

### Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3760-01 |
| <b>Client ID:</b> | 001 Willets Pt Blvd (Dec)MSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|--------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Ammonia as N | mg/L  | +/-20               | 3.90             | OR                 | 4.00                | OR                 | 1                  | 3          |      | 12/05/2025       |

## Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3760-02 |
| <b>Client ID:</b> | 002 35th Ave (Dec)DUP        | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| TSS     | mg/L  | +/-5                | 131              |                    | 133                 |                    | 1                  | 1.51       |      | 12/04/2025       |

### Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3772-01 |
| <b>Client ID:</b> | EFFLUENTMSD                  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|----------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Oil and Grease | mg/L  | +/-18               | 31.1             |                    | 30.9                |                    | 1                  | 0.65       |      | 12/08/2025       |

### Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMENT DISCHARGE    | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Cyanide | mg/L  | +/-20               | 0.00096          | U                  | 0.00096             | U                  | 1                  | 0          |      | 12/08/2025       |

### Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMENT DISCHARGEMSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Cyanide | mg/L  | +/-20               | 0.039            |                    | 0.039               |                    | 1                  | 0          |      | 12/08/2025       |

## Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMEN DISCHARGEMSD  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|----------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Oil and Grease | mg/L  | +/-18               | 23.8             |                    | 24.1                |                    | 1                  | 1.25       |      | 12/08/2025       |

## Duplicate Sample Summary

|                                               |                                           |
|-----------------------------------------------|-------------------------------------------|
| <b>Client:</b> VERINA CONSULTING GROUP, LLC   | <b>SDG No.:</b> Q3785                     |
| <b>Project:</b> Rotor Clip NJ WTD - 2025      | <b>Sample ID:</b> Q3785-04                |
| <b>Client ID:</b> WATER-TREATMEN DISCHARGEDUP | <b>Percent Solids for Spike Sample:</b> 0 |

| Analyte           | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|-------------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Residual Chlorine | mg/L  | +/-20               | 0.65             |                    | 0.64                |                    | 1                  | 1.56       |      | 12/04/2025       |
| COD               | mg/L  | +/-20               | 1.50             | U                  | 1.50                | U                  | 1                  | 0          |      | 12/05/2025       |
| BOD5              | mg/L  | +/-20               | 0.20             | U                  | 0.20                | U                  | 1                  | 0          |      | 12/05/2025       |

## Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3785-04 |
| <b>Client ID:</b> | WATER-TREATMENT DISCHARGEMSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte           | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|-------------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Residual Chlorine | mg/L  | +/-20               | 1.01             |                    | 1.02                |                    | 1                  | 0.99       |      | 12/04/2025       |
| COD               | mg/L  | +/-20               | 48.2             |                    | 47.1                |                    | 1                  | 2.31       |      | 12/05/2025       |

### Duplicate Sample Summary

|                   |                              |                                         |          |
|-------------------|------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b>                         | Q3785    |
| <b>Project:</b>   | Rotor Clip NJ WTD - 2025     | <b>Sample ID:</b>                       | Q3793-01 |
| <b>Client ID:</b> | Q3793-01MSD                  | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|----------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Oil and Grease | mg/L  | +/-18               | 397              |                    | 398                 |                    | 1                  | 0.2        |      | 12/08/2025       |

### Laboratory Control Sample Summary

|                 |                              |                 |          |
|-----------------|------------------------------|-----------------|----------|
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b> | Q3785    |
| <b>Project:</b> | Rotor Clip NJ WTD - 2025     | <b>Run No.:</b> | LB138118 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB138118BS |            |        |                 |            |                 |                     |               |
| TSS       | mg/L       | 550        | 556    |                 | 101        | 1               | 90-110              | 12/04/2025    |

### Laboratory Control Sample Summary

|                 |                              |                 |          |
|-----------------|------------------------------|-----------------|----------|
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b> | Q3785    |
| <b>Project:</b> | Rotor Clip NJ WTD - 2025     | <b>Run No.:</b> | LB138119 |

| Analyte           | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-------------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID         | LB138119BS |            |        |                 |            |                 |                     |               |
| Residual Chlorine | mg/L       | 0.4        | 0.42   |                 | 105        | 1               | 90-110              | 12/04/2025    |

### Laboratory Control Sample Summary

|                 |                              |                 |          |
|-----------------|------------------------------|-----------------|----------|
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b> | Q3785    |
| <b>Project:</b> | Rotor Clip NJ WTD - 2025     | <b>Run No.:</b> | LB138124 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB138124BS |            |        |                 |            |                 |                     |               |
| COD       | mg/L       | 50         | 50.2   |                 | 100        | 1               | 90-110              | 12/05/2025    |

### Laboratory Control Sample Summary

|                 |                              |                 |          |
|-----------------|------------------------------|-----------------|----------|
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b> | Q3785    |
| <b>Project:</b> | Rotor Clip NJ WTD - 2025     | <b>Run No.:</b> | LB138133 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB138133BS |            |        |                 |            |                 |                     |               |
| BOD5      | mg/L       | 198        | 190    |                 | 96         | 1               | 84.6-115.4          | 12/05/2025    |

### Laboratory Control Sample Summary

|                 |                              |                 |          |
|-----------------|------------------------------|-----------------|----------|
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b> | Q3785    |
| <b>Project:</b> | Rotor Clip NJ WTD - 2025     | <b>Run No.:</b> | LB138150 |

| Analyte        | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|----------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID      | LB138150BS |            |        |                 |            |                 |                     |               |
| Oil and Grease | mg/L       | 20.0       | 16.7   |                 | 84         | 1               | 78-114              | 12/08/2025    |

### Laboratory Control Sample Summary

|                 |                              |                 |          |
|-----------------|------------------------------|-----------------|----------|
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b> | Q3785    |
| <b>Project:</b> | Rotor Clip NJ WTD - 2025     | <b>Run No.:</b> | LB138125 |

| Analyte      | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|--------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID    | PB170830BS |            |        |                 |            |                 |                     |               |
| Ammonia as N | mg/L       | 1          | 1.00   |                 | 100        | 1               | 90-110              | 12/05/2025    |

### Laboratory Control Sample Summary

|                 |                              |                 |          |
|-----------------|------------------------------|-----------------|----------|
| <b>Client:</b>  | VERINA CONSULTING GROUP, LLC | <b>SDG No.:</b> | Q3785    |
| <b>Project:</b> | Rotor Clip NJ WTD - 2025     | <b>Run No.:</b> | LB138153 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | PB170853BS |            |        |                 |            |                 |                     |               |
| Cyanide   | mg/L       | 0.1        | 0.097  |                 | 97         | 1               | 85-115              | 12/08/2025    |



# RAW DATA

**TOTAL SUSPENDED SOLIDS - SM2540D**

**SUPERVISOR:** Iwona

**ANALYST:** jignesh

**Date:** 12/04/2025

**Run Number:** LB138118

**BalanceID:** WC SC-5

**OvenID:** WC OVEN-1

**FilterID:** 17416528

**ThermometerID:** WET OVEN#1

**TEMP1 IN:** 104 °C 12/04/2025 10:00 **TEMP1 OUT:** 103 °C 12/04/2025 11:00  
**TEMP2 IN:** 104 °C 12/04/2025 11:30 **TEMP2 OUT:** 103 °C 12/04/2025 12:30  
**TEMP3 IN:** 104 °C 12/04/2025 16:00 **TEMP3 OUT:** 103 °C 12/04/2025 17:30  
**TEMP4 IN:** 104 °C 12/04/2025 18:00 **TEMP4 OUT:** 103 °C 12/04/2025 19:35

| Dish # | Lab ID      | Client ID                 | Empty Dish Weight (g) | Final Empty Dish Weight (g) | Sample Volume (ml) | 1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | 2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Weight (g) | Result mg/L |
|--------|-------------|---------------------------|-----------------------|-----------------------------|--------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|------------|-------------|
| 1      | LB138118BL  | LB138118BL                | 1.5843                | 1.5843                      | 100                | 1.5844                                                          | 1.5844                                                          | 1.5844                                                            | 0.0001     | 1           |
| 2      | LB138118BS  | LB138118BS                | 1.3523                | 1.3523                      | 100                | 1.4079                                                          | 1.4079                                                          | 1.4079                                                            | 0.0556     | 556         |
| 3      | Q3760-01    | 001 Willets Pt Blvd (Dec) | 1.4945                | 1.4946                      | 100                | 1.5051                                                          | 1.5051                                                          | 1.5051                                                            | 0.0105     | 105         |
| 4      | Q3760-02    | 002 35th Ave (Dec)        | 1.4904                | 1.4905                      | 150                | 1.5102                                                          | 1.5102                                                          | 1.5102                                                            | 0.0197     | 131.3       |
| 5      | Q3760-02DUP | 002 35th Ave (Dec) DUP    | 1.4695                | 1.4695                      | 150                | 1.4895                                                          | 1.4895                                                          | 1.4895                                                            | 0.0200     | 133.3       |
| 6      | Q3771-02    | Comp                      | 1.4793                | 1.4793                      | 100                | 1.4929                                                          | 1.4929                                                          | 1.4929                                                            | 0.0136     | 136         |
| 7      | Q3772-01    | EFFLUENT                  | 1.5010                | 1.5010                      | 30                 | 1.5409                                                          | 1.5409                                                          | 1.5409                                                            | 0.0399     | 1330        |
| 8      | Q3772-04    | AERATION                  | 1.4777                | 1.4777                      | 30                 | 1.5115                                                          | 1.5115                                                          | 1.5115                                                            | 0.0338     | 1126.7      |
| 9      | Q3773-01    | TOWER#1                   | 1.4777                | 1.4777                      | 3000               | 1.4887                                                          | 1.4887                                                          | 1.4887                                                            | 0.0110     | 3.7         |
| 10     | Q3774-01    | DSN002                    | 1.4731                | 1.4731                      | 2000               | 1.4863                                                          | 1.4863                                                          | 1.4863                                                            | 0.0132     | 6.6         |
| 11     | Q3774-03    | DSN001                    | 1.4812                | 1.4812                      | 2000               | 1.5004                                                          | 1.5004                                                          | 1.5004                                                            | 0.0192     | 9.6         |
| 12     | Q3774-05    | DSN003                    | 1.4974                | 1.4974                      | 2000               | 1.5061                                                          | 1.5061                                                          | 1.5061                                                            | 0.0087     | 4.3         |
| 13     | Q3777-01    | SW-1                      | 1.5011                | 1.5011                      | 1000               | 3.5325                                                          | 3.5325                                                          | 3.5325                                                            | 2.0314     | 2031.4      |
| 14     | Q3778-01    | SW-2                      | 1.4723                | 1.4723                      | 1000               | 1.5289                                                          | 1.5289                                                          | 1.5289                                                            | 0.0566     | 56.6        |
| 15     | Q3785-04    | WATER-TREATMEN DISCHARGE  | 1.4943                | 1.4943                      | 1500               | 1.4950                                                          | 1.4950                                                          | 1.4950                                                            | 0.0007     | 0.5         |

**TOTAL SUSPENDED SOLIDS - SM2540D**

**SUPERVISOR:** Iwona

**ANALYST:** jignesh

**Date:** 12/04/2025

**Run Number:** LB138118

**BalanceID:** WC SC-5

**OvenID:** WC OVEN-1

**FilterID:** 17416528

**ThermometerID:** WET OVEN#1

**TEMP1 IN:** 104 °C 12/04/2025 10:00 **TEMP1 OUT:** 103 °C 12/04/2025 11:00  
**TEMP2 IN:** 104 °C 12/04/2025 11:30 **TEMP2 OUT:** 103 °C 12/04/2025 12:30  
**TEMP3 IN:** 104 °C 12/04/2025 16:00 **TEMP3 OUT:** 103 °C 12/04/2025 17:30  
**TEMP4 IN:** 104 °C 12/04/2025 18:00 **TEMP4 OUT:** 103 °C 12/04/2025 19:35

| Dish # | Lab ID | Client ID | Empty Dish Weight (g) | Final Empty Dish Weight (g) | Sample Volume (ml) | 1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | 2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Weight (g) | Result mg/L |
|--------|--------|-----------|-----------------------|-----------------------------|--------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|------------|-------------|
|        |        |           |                       |                             |                    |                                                                 |                                                                 |                                                                   |            |             |

A = Sample Volume (ml)  
 B = Final Empty Dish Weight (g)  
 C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)  
 D = Weight (g)

Weight (g) = C - B

Result mg/L =  $\frac{D}{A} \times 1000 \times 1000$

# WORKLIST(Hardcopy Internal Chain)

UB 138118

WorkList Name : iss q3570      WorkList ID : 193461      Department : Wet-Chemistry      Date : 12-04-2025 08:30:33

| Sample   | Customer Sample             | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3760-01 | H 001 Willets Pt Blvd (DEc) | Water  | TSS  | Cool 4 deg C | TULL01   | A11                         | 12/02/2025   | SM2540 D |
| Q3760-02 | H 002 35th Ave (Dec)        | Water  | TSS  | Cool 4 deg C | TULL01   | A11                         | 12/02/2025   | SM2540 D |
| Q3771-02 | B Comp                      | Water  | TSS  | Cool 4 deg C | ARAM01   | A11                         | 12/04/2025   | SM2540 D |
| Q3772-01 | A EFFLUENT                  | Water  | TSS  | Cool 4 deg C | HOLL01   | A11                         | 12/03/2025   | SM2540 D |
| Q3772-04 | AERATION                    | Water  | TSS  | Cool 4 deg C | HOLL01   | A11                         | 12/03/2025   | SM2540 D |
| Q3773-01 | TOWER#1 A, C, D             | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3774-01 | E, C DSN002                 | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3774-03 | E, C DSN001                 | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3774-05 | E, C DSN003                 | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3777-01 | E SW-1                      | Water  | TSS  | Cool 4 deg C | ATGG01   | A11                         | 12/02/2025   | SM2540 D |
| Q3778-01 | E SW-2                      | Water  | TSS  | Cool 4 deg C | ATGG01   | A11                         | 12/02/2025   | SM2540 D |
| Q3785-04 | P, E WATER-TREATMEN DISCHAR | Water  | TSS  | Cool 4 deg C | VERI01   | A11                         | 12/04/2025   | SM2540 D |

58 12/04/25 13:45

Date/Time 12/04/25 13:45  
 Raw Sample Received by: J.P. (WCC)  
 Raw Sample Relinquished by: R3 CEA-Vahj

Date/Time 12/04/25 18:30  
 Raw Sample Received by: R3 CEA-Vahj  
 Raw Sample Relinquished by: J.P. (WCC)

## Analytical Summary Report

Analysis Method: SM4500 Cl G

ANALYST: rubina

Parameter: Residual Chlorine

SUPERVISOR REVIEW BY: Iwona

Run Number: LB138119

| Reagent/Standard                             | Lot/Log # |
|----------------------------------------------|-----------|
| Residual chlorine LOD, 0.05PPM               | WP115951  |
| Residual chlorine ICV-LCS, 0.4PPM            | WP115950  |
| Chlorine Calibration std, 0.1ppm             | WP115945  |
| Chlorine Calibration std, 0.2ppm             | WP115946  |
| Chlorine Calibration std, 0.8ppm             | WP115947  |
| Chlorine Calibration std, 0.0ppm             | WP115944  |
| Chlorine Calibration std, 1.6ppm             | WP115948  |
| Residual Chlorine Calibration and CCV std, 0 | WP115949  |
| Total Chlorine Powder Pillows                | W3147     |

Intercept: 0.0054

Slope: 0.9895

Regression: 0.999774

| Seq | Lab ID | True Val (mg/l) | DF | Initial Reading | Final Reading | Difference | Result (mg/l) | %D   | AnalDate   | Anal Time |
|-----|--------|-----------------|----|-----------------|---------------|------------|---------------|------|------------|-----------|
| 1   | CAL1   | 0               | 1  | 0.000           | 0.000         | 0.000      | -0.01         |      | 12/04/2025 | 16:50     |
| 2   | CAL2   | 0.1             | 1  | 0.000           | 0.110         | 0.110      | 0.11          | 6    | 12/04/2025 | 16:53     |
| 3   | CAL3   | 0.2             | 1  | 0.000           | 0.200         | 0.200      | 0.20          | -1.5 | 12/04/2025 | 16:56     |
| 4   | CAL4   | 0.4             | 1  | 0.000           | 0.390         | 0.390      | 0.39          | -2.8 | 12/04/2025 | 17:00     |
| 5   | CAL5   | 0.8             | 1  | 0.000           | 0.820         | 0.820      | 0.82          | 2.9  | 12/04/2025 | 17:03     |
| 6   | CAL6   | 1.6             | 1  | 0.000           | 1.580         | 1.580      | 1.59          | -0.6 | 12/04/2025 | 17:06     |

## Analytical Summary Report

Analysis Method: SM4500 Cl G

ANALYST: rubina

Parameter: Residual Chlorine

SUPERVISOR REVIEW BY: Iwona

Run Number: LB138119

| Seq | Lab ID      | Initial Weight | Final Vol | True Value (mg/L) | DF | Initial Reading | Final Reading | Diff.  | Result (mg/L) | Anal Date  | Anal Time |
|-----|-------------|----------------|-----------|-------------------|----|-----------------|---------------|--------|---------------|------------|-----------|
| 1   | ICV         |                |           | 0.4               | 1  | 0.0000          | 0.4100        | 0.4100 | 0.3860        | 12/04/2025 | 17:09     |
| 2   | ICB         |                |           |                   | 1  | 0.0000          | 0.0010        | 0.0010 | -0.0410       | 12/04/2025 | 17:13     |
| 3   | CCV1        |                |           | 0.4               | 1  | 0.0000          | 0.4200        | 0.4200 | 0.3970        | 12/04/2025 | 17:16     |
| 4   | CCB1        |                |           |                   | 1  | 0.0000          | 0.0010        | 0.0010 | -0.0410       | 12/04/2025 | 17:20     |
| 5   | LB138119BL  | 50             | 50        |                   | 1  | 0.0000          | 0.0010        | 0.0010 | -0.0410       | 12/04/2025 | 17:23     |
| 6   | LB138119BS  | 50             | 50        | 0.4               | 1  | 0.0000          | 0.4200        | 0.4200 | 0.4190        | 12/04/2025 | 17:26     |
| 7   | Q3530-09    | 50             | 50        |                   | 1  | 0.0000          | 0.0600        | 0.0600 | 0.0550        | 12/04/2025 | 17:29     |
| 8   | Q3785-04    | 50             | 50        |                   | 1  | 0.0000          | 0.6600        | 0.6600 | 0.6470        | 12/04/2025 | 17:32     |
| 9   | Q3785-04DUP | 50             | 50        |                   | 1  | 0.0000          | 0.6500        | 0.6500 | 0.6370        | 12/04/2025 | 17:35     |
| 10  | Q3785-04MS  | 50             | 50        | 0.4               | 1  | 0.0000          | 1.0100        | 1.0100 | 1.0120        | 12/04/2025 | 17:38     |
| 11  | Q3785-04MSD | 50             | 50        | 0.4               | 1  | 0.0000          | 1.0200        | 1.0200 | 1.0230        | 12/04/2025 | 17:42     |
| 12  | CCV2        |                |           | 0.4               | 1  | 0.0000          | 0.4100        | 0.4100 | 0.3860        | 12/04/2025 | 17:45     |
| 13  | CCB2        |                |           |                   | 1  | 0.0000          | 0.0010        | 0.0010 | -0.0410       | 12/04/2025 | 17:49     |

## Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: Sohil

Run Number: LB138124

| Reagent/Standard                        | Lot/Log # |
|-----------------------------------------|-----------|
| COD calibration std. 150 ppm            | WP114659  |
| COD calibration std. 100 ppm            | WP114658  |
| COD calibration std. 50 ppm             | WP114656  |
| COD calibration std. 10 ppm             | WP114655  |
| COD calibration std. 0 ppm              | WP114654  |
| COD ICV-LCS std, 50ppm                  | WP114661  |
| COD calibration std. 75 ppm             | WP114657  |
| COD CCV std, 50ppm                      | WP115958  |
| COD ICV-LCS std, 50ppm                  | WP115959  |
| RL CHECK                                | WP115960  |
| COD Digestion Vials Low Level 0-150Mg/L | W3259     |

|                   |                      |                 |
|-------------------|----------------------|-----------------|
| Temp In (C): 147  | Date In: 12/05/2025  | Time In: 09:35  |
| Temp Out (C): 151 | Date Out: 12/05/2025 | Time Out: 11:35 |

Intercept: 0.3943

Slope: 0.9887

Regression: 0.9996

| Seq | Lab ID | TrueValue (mg/l) | DF | MATRIX | Reading | Result (mg/l) | %D   | Anal Date  | Anal Time |
|-----|--------|------------------|----|--------|---------|---------------|------|------------|-----------|
| 1   | CAL1   | 0                | 1  | Water  | 0.000   | -0.399        |      | 09/08/2025 | 13:30     |
| 2   | CAL2   | 10               | 1  | Water  | 9.000   | 8.704         | -13  | 09/08/2025 | 13:30     |
| 3   | CAL3   | 50               | 1  | Water  | 51.000  | 51.184        | 2.4  | 09/08/2025 | 13:31     |
| 4   | CAL4   | 75               | 1  | Water  | 77.000  | 77.481        | 3.3  | 09/08/2025 | 13:31     |
| 5   | CAL5   | 100              | 1  | Water  | 98.000  | 98.721        | -1.3 | 09/08/2025 | 13:32     |
| 6   | CAL6   | 150              | 1  | Water  | 148.000 | 149.293       | -0.5 | 09/08/2025 | 13:32     |

## Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: Sohil

Run Number: LB138124

| Seq | Lab ID      | True Value (mg/l) | Initial Weight (g) | Final Vol (ml) | DF | MATRIX | Reading | Result  | AnalDate   | AnalTime |
|-----|-------------|-------------------|--------------------|----------------|----|--------|---------|---------|------------|----------|
| 1   | ICV         | 50                | NA                 | NA             | 1  | Water  | 50.000  | 50.173  | 09/08/2025 | 13:33    |
| 2   | ICB         |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613   | 09/08/2025 | 13:33    |
| 3   | CCV1        | 50                | NA                 | NA             | 1  | Water  | 48.000  | 48.150  | 12/05/2025 | 12:45    |
| 4   | CCB1        |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613   | 12/05/2025 | 12:45    |
| 5   | RL Check    | 10                | NA                 | NA             | 1  | Water  | 7.000   | 6.681   | 12/05/2025 | 12:46    |
| 6   | LB138124BL  |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613   | 12/05/2025 | 12:46    |
| 7   | LB138124BS  | 50                | NA                 | NA             | 1  | Water  | 50.000  | 50.173  | 12/05/2025 | 12:47    |
| 8   | Q3729-01    |                   | NA                 | NA             | 10 | Water  | 103.000 | 103.778 | 12/05/2025 | 12:47    |
| 9   | Q3774-01    |                   | NA                 | NA             | 1  | Water  | 46.000  | 46.127  | 12/05/2025 | 12:48    |
| 10  | Q3774-03    |                   | NA                 | NA             | 1  | Water  | 105.000 | 105.801 | 12/05/2025 | 12:48    |
| 11  | Q3774-04    |                   | NA                 | NA             | 1  | Water  | 111.000 | 111.870 | 12/05/2025 | 12:49    |
| 12  | Q3774-05    |                   | NA                 | NA             | 1  | Water  | 36.000  | 36.013  | 12/05/2025 | 12:49    |
| 13  | Q3785-04    |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613   | 12/05/2025 | 12:50    |
| 14  | Q3785-04DUP |                   | NA                 | NA             | 1  | Water  | 0.000   | -0.399  | 12/05/2025 | 12:50    |
| 15  | Q3785-04MS  | 50                | NA                 | NA             | 1  | Water  | 48.000  | 48.150  | 12/05/2025 | 12:51    |
| 16  | CCV2        | 50                | NA                 | NA             | 1  | Water  | 48.000  | 48.150  | 12/05/2025 | 12:51    |
| 17  | CCB2        |                   | NA                 | NA             | 1  | Water  | 0.000   | -0.399  | 12/05/2025 | 12:52    |
| 18  | Q3785-04MSD | 50                | NA                 | NA             | 1  | Water  | 47.000  | 47.138  | 12/05/2025 | 12:52    |
| 19  | CCV3        | 50                | NA                 | NA             | 1  | Water  | 49.000  | 49.161  | 12/05/2025 | 12:53    |
| 20  | CCB3        |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613   | 12/05/2025 | 12:53    |

# WORKLIST(Hardcopy Internal Chain)

LB138129

WorkList Name : COD-120325

WorkList ID : 193442

Department : Wet-Chemistry

Date : 12-03-2025 09:46:50

| Sample   | Customer Sample        | Matrix | Test | Preservative         | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|------------------------|--------|------|----------------------|----------|-----------------------------|--------------|----------|
| Q3729-01 | 1                      | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | A11                         | 11/25/2025   | SM5220 D |
| Q3774-01 | DSN002                 | Water  | COD  | Conc H2SO4 to pH < 2 | PSEG04   | A11                         | 12/03/2025   | SM5220 D |
| Q3774-03 | DSN001                 | Water  | COD  | Conc H2SO4 to pH < 2 | PSEG04   | A11                         | 12/03/2025   | SM5220 D |
| Q3774-04 | DSN001                 | Water  | COD  | Conc H2SO4 to pH < 2 | PSEG04   | A11                         | 12/03/2025   | SM5220 D |
| Q3774-05 | DSN003                 | Water  | COD  | Conc H2SO4 to pH < 2 | PSEG04   | A11                         | 12/03/2025   | SM5220 D |
| Q3785-04 | WATER-TREATMEN DISCHAR | Water  | COD  | Conc H2SO4 to pH < 2 | VERI01   | A11                         | 12/04/2025   | SM5220 D |

Date/Time 12/05/25 09:10

Raw Sample Received by: 12/05/25

Raw Sample Relinquished by: 12/05/25

Date/Time 12/05/25

Raw Sample Received by: 12/05/25

Raw Sample Relinquished by: 12/05/25

66138125

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

12/5/2025 12:22

Test: Ammonia-N

| Sample Id       | Result | Dil. 1 + | Response | Errors          |
|-----------------|--------|----------|----------|-----------------|
| ICV1            | 1.007  | 0.0      | 0.209    |                 |
| ICB1            | 0.011  | 0.0      | 0.017    |                 |
| CCV1            | 1.021  | 0.0      | 0.211    |                 |
| CCB1            | 0.011  | 0.0      | 0.017    |                 |
| RL CHECK        | 0.089  | 0.0      | 0.032    |                 |
| PB170830BL      | 0.013  | 0.0      | 0.018    |                 |
| PB170830BS      | 1.001  | 0.0      | 0.208    |                 |
| Q3760-01        | 2.924  | 0.0      | 0.577    | Test limit high |
| Q3760-01DUP     | 2.932  | 0.0      | 0.579    | Test limit high |
| Q3760-01MS      | 3.946  | 0.0      | 0.774    | Test limit high |
| Q3760-01MSD     | 3.972  | 0.0      | 0.779    | Test limit high |
| Q3760-02        | 3.450  | 0.0      | 0.678    | Test limit high |
| Q3772-01        | 9.817  | 0.0      | 1.903    | Test limit high |
| Q3772-05        | 5.076  | 0.0      | 0.991    | Test limit high |
| CCV2            | 1.009  | 0.0      | 0.209    |                 |
| CCB2            | 0.012  | 0.0      | 0.017    |                 |
| Q3785-04        | 0.037  | 0.0      | 0.022    |                 |
| CCV3            | 1.024  | 0.0      | 0.212    |                 |
| CCB3            | 0.014  | 0.0      | 0.018    |                 |
| Q3760-01DLX2    | 1.359  | 0.0      | 0.277    |                 |
| Q3760-01DUPDLX2 | 1.344  | 0.0      | 0.274    |                 |
| Q3760-02DLX2    | 1.627  | 0.0      | 0.328    |                 |
| Q3772-01DLX10   | 0.894  | 0.0      | 0.187    |                 |
| Q3772-05DLX5    | 0.925  | 0.0      | 0.193    |                 |
| CCV4            | 1.036  | 0.0      | 0.214    |                 |
| CCB4            | 0.013  | 0.0      | 0.018    |                 |

897. (50-150) 12/05/2025  
RM

N 26  
Mean 1.714  
SD 2.1937  
CV% 127.98

Aquakem v. 7.2AQ1

Results from time period:

Fri Dec 05 10:02:13 2025

Fri Dec 05 12:17:53 2025

| Sample Id       | Sam/Ctr/c | Test short r | Test type | Result | Result unit | Result date and time | Stat |
|-----------------|-----------|--------------|-----------|--------|-------------|----------------------|------|
| 0.0PPM          | A         | Ammonia-1 P  |           | 0.0176 | mg/l        | 12/5/2025 10:29:52   |      |
| 0.1PPM          | A         | Ammonia-1 P  |           | 0.1102 | mg/l        | 12/5/2025 10:29:53   |      |
| 0.2PPM          | A         | Ammonia-1 P  |           | 0.1979 | mg/l        | 12/5/2025 10:29:54   |      |
| 0.4PPM          | A         | Ammonia-1 P  |           | 0.3953 | mg/l        | 12/5/2025 10:29:55   |      |
| 1.0PPM          | A         | Ammonia-1 P  |           | 0.9793 | mg/l        | 12/5/2025 10:29:56   |      |
| 1.3PPM          | A         | Ammonia-1 P  |           | 1.2991 | mg/l        | 12/5/2025 10:29:57   |      |
| 2.0PPM          | A         | Ammonia-1 P  |           | 2.0338 | mg/l        | 12/5/2025 10:29:58   |      |
| ICV1            | S         | Ammonia-1 P  |           | 1.007  | mg/l        | 12/5/2025 11:18:56   |      |
| ICB1            | S         | Ammonia-1 P  |           | 0.0106 | mg/l        | 12/5/2025 11:18:57   |      |
| CCV1            | S         | Ammonia-1 P  |           | 1.0212 | mg/l        | 12/5/2025 11:19:00   |      |
| CCB1            | S         | Ammonia-1 P  |           | 0.011  | mg/l        | 12/5/2025 11:19:01   |      |
| RL CHECK        | S         | Ammonia-1 P  |           | 0.0889 | mg/l        | 12/5/2025 11:19:05   |      |
| PB170830BL      | S         | Ammonia-1 P  |           | 0.013  | mg/l        | 12/5/2025 11:29:39   |      |
| PB170830BS      | S         | Ammonia-1 P  |           | 1.0007 | mg/l        | 12/5/2025 11:29:41   |      |
| Q3760-01        | S         | Ammonia-1 P  |           | 2.9243 | mg/l        | 12/5/2025 11:29:43   |      |
| Q3760-01DUP     | S         | Ammonia-1 P  |           | 2.9318 | mg/l        | 12/5/2025 11:29:46   |      |
| Q3760-01MS      | S         | Ammonia-1 P  |           | 3.9455 | mg/l        | 12/5/2025 11:29:47   |      |
| Q3760-01MSD     | S         | Ammonia-1 P  |           | 3.9724 | mg/l        | 12/5/2025 11:29:48   |      |
| Q3760-02        | S         | Ammonia-1 P  |           | 3.4496 | mg/l        | 12/5/2025 11:29:49   |      |
| Q3772-01        | S         | Ammonia-1 P  |           | 9.8166 | mg/l        | 12/5/2025 11:29:50   |      |
| Q3772-05        | S         | Ammonia-1 P  |           | 5.0758 | mg/l        | 12/5/2025 11:40:21   |      |
| CCV2            | S         | Ammonia-1 P  |           | 1.0094 | mg/l        | 12/5/2025 11:40:23   |      |
| CCB2            | S         | Ammonia-1 P  |           | 0.0123 | mg/l        | 12/5/2025 11:40:26   |      |
| Q3785-04        | S         | Ammonia-1 P  |           | 0.0368 | mg/l        | 12/5/2025 11:40:28   |      |
| CCV3            | S         | Ammonia-1 P  |           | 1.0244 | mg/l        | 12/5/2025 11:40:29   |      |
| CCB3            | S         | Ammonia-1 P  |           | 0.0143 | mg/l        | 12/5/2025 11:40:31   |      |
| Q3760-01DLX2    | S         | Ammonia-1 P  |           | 1.3594 | mg/l        | 12/5/2025 12:10:34   |      |
| Q3760-01DUPDLX2 | S         | Ammonia-1 P  |           | 1.344  | mg/l        | 12/5/2025 12:10:37   |      |
| Q3760-02DLX2    | S         | Ammonia-1 P  |           | 1.6272 | mg/l        | 12/5/2025 12:10:39   |      |
| Q3772-01DLX10   | S         | Ammonia-1 P  |           | 0.894  | mg/l        | 12/5/2025 12:10:42   |      |
| Q3772-05DLX5    | S         | Ammonia-1 P  |           | 0.9255 | mg/l        | 12/5/2025 12:10:44   |      |
| CCV4            | S         | Ammonia-1 P  |           | 1.0361 | mg/l        | 12/5/2025 12:17:49   |      |
| CCB4            | S         | Ammonia-1 P  |           | 0.0127 | mg/l        | 12/5/2025 12:17:51   |      |

Calibration results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group  
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

12/5/2025 10:42

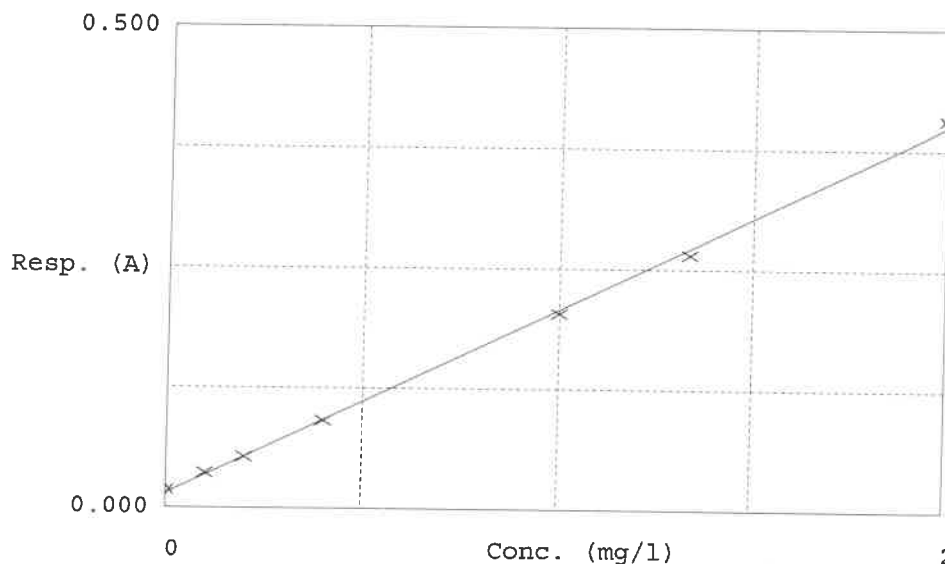
Test Ammonia-N

Accepted 12/5/2025 10:42

Factor 5.201  
Bias 0.015

Coeff. of det. 0.999055

Errors



|   | Calibrator | Response | Calc. con. | Conc.  | Errors |
|---|------------|----------|------------|--------|--------|
| 1 | 0.00PPM    | 0.019    | 0.0176     | 0.0000 | -      |
| 2 | NH3-2PPM   | 0.036    | 0.1102     | 0.1000 | 10.2   |
| 3 | NH3-2PPM   | 0.053    | 0.1979     | 0.2000 | -1.1   |
| 4 | NH3-2PPM   | 0.091    | 0.3953     | 0.4000 | -1.2   |
| 5 | NH3-2PPM   | 0.203    | 0.9793     | 1.0000 | -2.1   |
| 6 | NH3-2PPM   | 0.265    | 1.2991     | 1.3333 | -0.1   |
| 7 | NH3-2PPM   | 0.406    | 2.0338     | 2.0000 | 1.7    |

12/05/2025  
RM

# BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 12/05/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3248

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP115915

QC BATCH ID: LB138133

BOD Water: WP115977

Starch: W3149

Sulfuric acid, 1N: WP115342

POLYSEED: WP115979

GGA: WP115978

Chlorine Strips: W3155

pH Strips: W3241

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 9.6                | 9.6        | 9.6     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.7                  | 19.3               | 9.6        | 9.6     |

Meter Calibration1: 9.28 Zero DO Reading1: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure1: 765 mmHg DO Meter BOD fluid reading for winkler comparison: 9.64

## After Incubation

Meter Calibration2: 9.24 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 750 mmHg

QC BATCH ID: LB138133

INCUBATOR TEMP IN(C): 19.8

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 17:00

TIME OUT: 12:00

DATE IN: 12/05/2025

DATE OUT: 12/10/2025

| Lab SampleID | Bottle No. | Check CL | Initial PH | Final PH | Temp °C | Sam Vol. (mL) | D.O.1 Initial | D.O.2 Final | Depletion | BOD Result (mg/L) | Avg Result (mg/L) | Comment     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB138133BL   | 1          | No       | 6.57       | N/A      | 20.90   | 300           | 9.64          | 9.62        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.50          | 6.19        | 3.31      | 0.66              | 0.65              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.47          | 4.62        | 4.85      | 0.65              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.45          | 3.05        | 6.4       | 0.64              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.52          | 5.22        | 4.3       | 182.5             | 189.67            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.50          | 5.02        | 4.48      | 191.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.52          | 4.97        | 4.55      | 195               |                   |             |
| Q3785-04     | 1          | No       | 7.31       | N/A      | 20.00   | 5             | 9.54          | 8.82        | -         | 0                 |                   |             |
| Q3785-04     | 2          |          |            |          |         | 20            | 9.49          | 8.48        | -         | 0                 |                   |             |
| Q3785-04     | 3          |          |            |          |         | 50            | 9.38          | 8.29        | -         | 0                 |                   |             |
| Q3785-04     | 4          |          |            |          |         | 150           | 9.07          | 8.00        | -         | 0                 |                   |             |
| Q3785-04DUP  | 1          | No       | 7.31       | N/A      | 20.00   | 5             | 9.52          | 8.73        | -         | 0                 |                   |             |
| Q3785-04DUP  | 2          |          |            |          |         | 20            | 9.49          | 8.58        | -         | 0                 |                   |             |
| Q3785-04DUP  | 3          |          |            |          |         | 50            | 9.36          | 8.33        | -         | 0                 |                   |             |
| Q3785-04DUP  | 4          |          |            |          |         | 150           | 9.05          | 8.02        | -         | 0                 |                   |             |
| Q3793-01     | 1          | No       | 5.82       | 7.01     | 20.10   | 5             | 9.38          | 1.09        | 8.29      | 458.4             | 458.4             | pH Adjusted |
| Q3793-01     | 2          |          |            |          |         | 20            | 7.97          | 0.48        | -         | 0                 |                   |             |
| Q3793-01     | 3          |          |            |          |         | 50            | 7.51          | 0.20        | -         | 0                 |                   |             |
| Q3793-01     | 4          |          |            |          |         | 150           | 7.35          | 0.14        | -         | 0                 |                   |             |

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

LB138133

WorkList Name : BOD5-12-5.

WorkList ID : 193505

Department : Wet-Chemistry

Date : 12-05-2025 12:53:14

| Sample   | Customer Sample        | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|------------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3785-04 | WATER-TREATMEN DISCHAR | Water  | BOD5 | Cool 4 deg C | VERI01   | A11                         | 12/04/2025   | SM5210 B |
| Q3793-01 | MH-1252025             | Water  | BOD5 | Cool 4 deg C | EURO03   | D11                         | 12/05/2025   | SM5210 B |

Date/Time 12/15/2025 15:35  
Raw Sample Received by: R14  
Raw Sample Relinquished by: [Signature]

Date/Time 12/15/2025 16:44  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

## Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB138150

Analysis Date: 12/08/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 12/08/2025

Extraction IN Time: 11:15

Extraction OUT Time: 11:35

Thermometer ID: EXT OVEN#3

| Dish # | Lab ID     | Client ID              | Matrix | pH  | Sample Vol (ml) | Final Volume (ml) | Empty Dish Weight (g) | Final Empty Dish Weight (g) | Silica Gel Weight (g) | Weight After Drying (g) | Final Weight After Drying (g) | Change Weight (g) | Result in ppm |
|--------|------------|------------------------|--------|-----|-----------------|-------------------|-----------------------|-----------------------------|-----------------------|-------------------------|-------------------------------|-------------------|---------------|
| 1      | LB138150BL | LB138150BL             | WATER  | 1.3 | 1000            | 100               | 3.4217                | 3.4217                      | 0                     | 3.4218                  | 3.4218                        | 0.0001            | 0.1           |
| 2      | LB138150BS | LB138150BS             | WATER  | 1.3 | 1000            | 100               | 2.8563                | 2.8563                      | 0                     | 2.8730                  | 2.8730                        | 0.0167            | 16.7          |
| 3      | Q3760-01   | 001 Willets Pt Blvd (D | WATER  | 1.3 | 1000            | 100               | 3.0535                | 3.0535                      | 0                     | 3.0591                  | 3.0591                        | 0.0056            | 5.6           |
| 4      | Q3760-02   | 002 35th Ave (Dec)     | WATER  | 1.3 | 1000            | 100               | 3.0717                | 3.0717                      | 0                     | 3.0788                  | 3.0788                        | 0.0071            | 7.1           |
| 5      | Q3772-01   | EFFLUENT               | WATER  | 1.6 | 1000            | 100               | 3.0551                | 3.0551                      | 0                     | 3.0653                  | 3.0653                        | 0.0102            | 10.2          |
| 6      | Q3772-02   | Q3772-01MS             | WATER  | 1.6 | 1000            | 100               | 3.1658                | 3.1658                      | 0                     | 3.1969                  | 3.1969                        | 0.0311            | 31.1          |
| 7      | Q3772-03   | Q3772-01MSD            | WATER  | 1.6 | 1000            | 100               | 2.8413                | 2.8413                      | 0                     | 2.8722                  | 2.8722                        | 0.0309            | 30.9          |
| 8      | Q3777-01   | SW-1                   | WATER  | 1.6 | 400             | 100               | 3.1068                | 3.1068                      | 0                     | 3.1091                  | 3.1091                        | 0.0023            | 5.75          |
| 9      | Q3778-01   | SW-2                   | WATER  | 1.6 | 900             | 100               | 3.0328                | 3.0328                      | 0                     | 3.0332                  | 3.0332                        | 0.0004            | 0.44          |
| 10     | Q3785-01   | WATER-TREATMEN DISCHAF | WATER  | 1.6 | 1000            | 100               | 3.0354                | 3.0354                      | 0                     | 3.0387                  | 3.0387                        | 0.0033            | 3.3           |
| 11     | Q3785-02   | Q3785-01MS             | WATER  | 1.6 | 1000            | 100               | 3.1961                | 3.1961                      | 0                     | 3.2199                  | 3.2199                        | 0.0238            | 23.8          |
| 12     | Q3785-03   | Q3785-01MSD            | WATER  | 1.6 | 1000            | 100               | 2.7411                | 2.7411                      | 0                     | 2.7652                  | 2.7652                        | 0.0241            | 24.1          |
| 13     | Q3793-01   | MH-1252025             | WATER  | 1.6 | 1000            | 100               | 3.0778                | 3.0778                      | 0                     | 3.4545                  | 3.4545                        | 0.3767            | 376.7         |
| 14     | Q3793-02   | Q3793-01-MS            | WATER  | 1.6 | 1000            | 100               | 2.9633                | 2.9633                      | 0                     | 3.3605                  | 3.3605                        | 0.3972            | 397.2         |
| 15     | Q3793-03   | Q3793-01-MSD           | WATER  | 1.6 | 1000            | 100               | 2.9971                | 2.9971                      | 0                     | 3.3951                  | 3.3951                        | 0.3980            | 398           |

QC Batch# LB138150

**Test:** Oil and Grease

**Analysis Date:** 12/08/2025

### Chemicals Used:

| Chemical Name  | Chemical Lot # |
|----------------|----------------|
| HEXANE         | W3240          |
| pH Paper 0-14  | M6069          |
| Sodium Sulfate | EP2665         |
| 1:1 HCL        | WP115016       |
| Silica Gel     | N/A            |
| Sand           | N/A            |

### Standards Used:

| Standard Name | Amount Used | Standard Lot # |
|---------------|-------------|----------------|
| LCSW          | 2.5 ML      | WP115017       |
| LCSWD         | N/A         | N/A            |
| MS/MSD        | 2.5 ML      | WP115018       |

### BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

## Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 71 °C Dessicator Time In1 : 13:32

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 12:37

Bal Check Time: 11:20 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 14:00

Out Time1: 13:30

## After Analysis

0.0020 gram Balance: 0.002 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 15:16

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time2: 14:37

Bal Check Time: 16:02 Out OVEN TEMP2: 70 °C Dessicator Time Out2: 16:00

Out Time2: 15:15

WORKLIST(Hardcopy Internal Chain)

138151

WorkList Name : tph q3793

WorkList ID : 193530

Department : Wet-Chemistry

Date : 12-08-2025 10:57:19

| Sample     | Customer Sample | Matrix | Test | Preservative         | Customer | Raw Sample Storage Location | Collect Date | Method |
|------------|-----------------|--------|------|----------------------|----------|-----------------------------|--------------|--------|
| Q3752-01 D | 402             | Water  | TPH  | Conc H2SO4 to pH < 2 | PSEG04   | A13                         | 12/02/2025   | 1664A  |
| Q3771-01   | Grab            | Water  | TPH  | Conc H2SO4 to pH < 2 | ARAM01   | A11                         | 12/03/2025   | 1664A  |
| Q3793-01 E | MH-1252025      | Water  | TPH  | Conc H2SO4 to pH < 2 | EURO03   | D11                         | 12/05/2025   | 1664A  |

Date/Time 12/08/25 11:10

Raw Sample Received by: 70 (wec)

Raw Sample Relinquished by: CPD

Date/Time

12/08/25

Raw Sample Received by:

Raw Sample Relinquished by:

16:30

CPD

70 (wec)

LB138153

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

12/8/2025 13:48

Test: Total CN

| Sample Id    | Result  | Dil. 1 + | Response | Errors |
|--------------|---------|----------|----------|--------|
| ICV1         | 97.531  | 0.0      | 0.082    |        |
| ICB1         | 0.061   | 0.0      | 0.002    |        |
| CCV1         | 245.531 | 0.0      | 0.205    |        |
| CCB1         | 0.150   | 0.0      | 0.002    |        |
| PB170853BL   | 0.065   | 0.0      | 0.002    |        |
| PB170853BS   | 97.262  | 0.0      | 0.082    |        |
| LOWPB170853  | 9.409   | 0.0      | 0.009    |        |
| HIGHPB170853 | 489.626 | 0.0      | 0.406    |        |
| Q3785-01     | 0.901   | 0.0      | 0.002    |        |
| Q3785-01DUP  | 0.777   | 0.0      | 0.002    |        |
| Q3785-01MS   | 39.002  | 0.0      | 0.034    |        |
| S3785-01MSD  | 38.571  | 0.0      | 0.034    |        |
| PB170847BL   | -0.256  | 0.0      | 0.001    |        |
| PB170847BS   | 97.891  | 0.0      | 0.083    |        |
| CCV2         | 246.010 | 0.0      | 0.205    |        |
| CCB2         | 0.192   | 0.0      | 0.002    |        |
| Q3779-01     | -0.383  | 0.0      | 0.001    |        |
| Q3801-01     | 0.256   | 0.0      | 0.002    |        |
| Q3801-06     | 0.380   | 0.0      | 0.002    |        |
| Q3806-01     | -0.050  | 0.0      | 0.002    |        |
| Q3806-04     | -0.333  | 0.0      | 0.001    |        |
| Q3781-01     | -0.164  | 0.0      | 0.002    |        |
| Q3781-01DUP  | -0.319  | 0.0      | 0.001    |        |
| Q3781-01MS   | 38.675  | 0.0      | 0.034    |        |
| Q3781-01MSD  | 38.391  | 0.0      | 0.033    |        |
| CCV3         | 255.990 | 0.0      | 0.213    |        |
| CCB3         | -0.252  | 0.0      | 0.001    |        |

94% (90-110)  
98% (90-110) 12/8/2025 RM

N 27  
Mean 62.775  
SD 116.7341  
CV% 185.96

Aquakem v. 7.2AQ1

Results from time period:

Mon Dec 08 12:47:44 2025

Mon Dec 08 13:44:31 2025

| Sample Id    | Sam/Ctr/c/ | Test short r | Test type | Result   | Result unit | Result date and time | Stat |
|--------------|------------|--------------|-----------|----------|-------------|----------------------|------|
| 0.0PPBCN     | A          | Total CN     | P         | -0.2834  | µg/l        | 12/8/2025 10:45:03   |      |
| 5.0PPBCN     | A          | Total CN     | P         | 3.8071   | µg/l        | 12/8/2025 10:45:04   |      |
| 10PPBCN      | A          | Total CN     | P         | 9.438    | µg/l        | 12/8/2025 10:45:05   |      |
| 50PPBCN      | A          | Total CN     | P         | 49.9363  | µg/l        | 12/8/2025 10:45:06   |      |
| 100PPBCN     | A          | Total CN     | P         | 100.9069 | µg/l        | 12/8/2025 10:45:07   |      |
| 250PPBCN     | A          | Total CN     | P         | 252.6937 | µg/l        | 12/8/2025 10:45:08   |      |
| 500PPBCN     | A          | Total CN     | P         | 498.5013 | µg/l        | 12/8/2025 10:45:09   |      |
| ICV1         | S          | Total CN     | P         | 97.5311  | µg/l        | 12/8/2025 12:47:44   |      |
| ICB1         | S          | Total CN     | P         | 0.061    | µg/l        | 12/8/2025 12:47:47   |      |
| CCV1         | S          | Total CN     | P         | 245.5308 | µg/l        | 12/8/2025 12:47:48   |      |
| CCB1         | S          | Total CN     | P         | 0.1501   | µg/l        | 12/8/2025 12:47:50   |      |
| PB170853BL   | S          | Total CN     | P         | 0.0648   | µg/l        | 12/8/2025 12:47:52   |      |
| PB170853BS   | S          | Total CN     | P         | 97.2622  | µg/l        | 12/8/2025 12:47:54   |      |
| LOWPB170853  | S          | Total CN     | P         | 9.4094   | µg/l        | 12/8/2025 12:55:21   |      |
| HIGHPB170853 | S          | Total CN     | P         | 489.6263 | µg/l        | 12/8/2025 12:55:24   |      |
| Q3785-01     | S          | Total CN     | P         | 0.9006   | µg/l        | 12/8/2025 12:55:26   |      |
| Q3785-01DUP  | S          | Total CN     | P         | 0.777    | µg/l        | 12/8/2025 12:55:29   |      |
| Q3785-01MS   | S          | Total CN     | P         | 39.0015  | µg/l        | 12/8/2025 13:02:56   |      |
| S3785-01MSD  | S          | Total CN     | P         | 38.5708  | µg/l        | 12/8/2025 13:02:57   |      |
| PB170847BL   | S          | Total CN     | P         | -0.2559  | µg/l        | 12/8/2025 13:02:58   |      |
| PB170847BS   | S          | Total CN     | P         | 97.8912  | µg/l        | 12/8/2025 13:03:01   |      |
| CCV2         | S          | Total CN     | P         | 246.0103 | µg/l        | 12/8/2025 13:03:02   |      |
| CCB2         | S          | Total CN     | P         | 0.1924   | µg/l        | 12/8/2025 13:03:04   |      |
| Q3779-01     | S          | Total CN     | P         | -0.383   | µg/l        | 12/8/2025 13:10:27   |      |
| Q3801-01     | S          | Total CN     | P         | 0.2557   | µg/l        | 12/8/2025 13:10:36   |      |
| Q3801-06     | S          | Total CN     | P         | 0.38     | µg/l        | 12/8/2025 13:18:01   |      |
| Q3806-01     | S          | Total CN     | P         | -0.0504  | µg/l        | 12/8/2025 13:18:02   |      |
| Q3806-04     | S          | Total CN     | P         | -0.3331  | µg/l        | 12/8/2025 13:18:03   |      |
| Q3781-01     | S          | Total CN     | P         | -0.1638  | µg/l        | 12/8/2025 13:24:36   |      |
| Q3781-01DUP  | S          | Total CN     | P         | -0.3194  | µg/l        | 12/8/2025 13:33:46   |      |
| Q3781-01MS   | S          | Total CN     | P         | 38.6754  | µg/l        | 12/8/2025 13:33:47   |      |
| Q3781-01MSD  | S          | Total CN     | P         | 38.3908  | µg/l        | 12/8/2025 13:33:48   |      |
| CCV3         | S          | Total CN     | P         | 255.9901 | µg/l        | 12/8/2025 13:36:34   |      |
| CCB3         | S          | Total CN     | P         | -0.2523  | µg/l        | 12/8/2025 13:36:35   |      |

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

12/8/2025 10:48

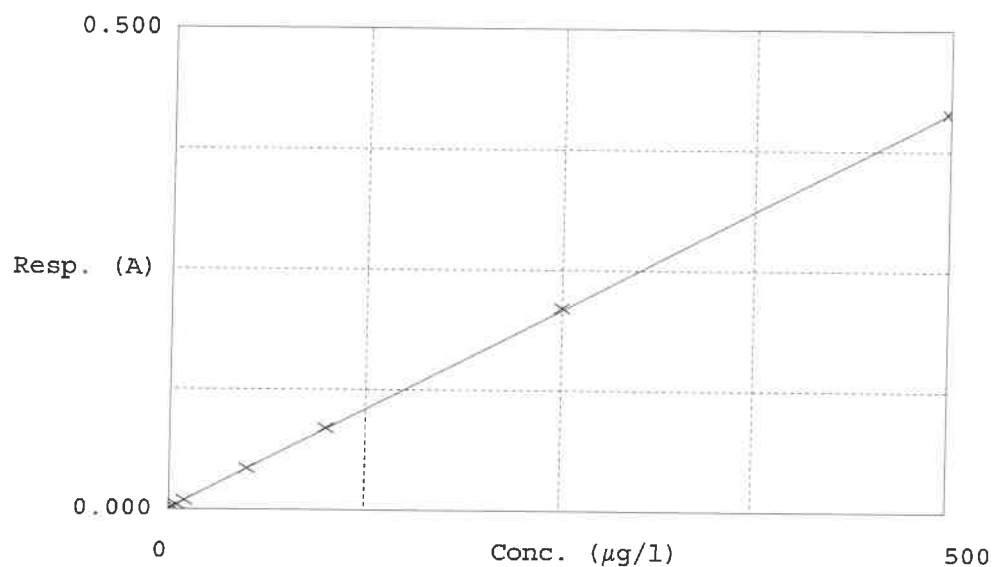
Test Total CN

Accepted 12/8/2025 10:48

Factor 1210  
Bias 0.002

Coeff. of det. 0.999941

Errors



|   | Calibrator | Response | Calc. con. | Conc.    | Errors |
|---|------------|----------|------------|----------|--------|
| 1 | 0.0PPBCN   | 0.001    | -0.2834    | 0.0000   | -      |
| 2 | 5.0PPBCN   | 0.005    | 3.8071     | 5.0000   | -23.9  |
| 3 | 10PPBCN    | 0.009    | 9.4380     | 10.0000  | -5.6   |
| 4 | 50PPBCN    | 0.043    | 49.9363    | 50.0000  | -0.1   |
| 5 | 100PPBCN   | 0.085    | 100.9069   | 100.0000 | 0.9    |
| 6 | 250PPBCN   | 0.210    | 252.6937   | 250.0000 | 1.1    |
| 7 | 500PPBCN   | 0.414    | 498.5013   | 500.0000 | -0.3   |

12/8/2025  
RM

SOP ID : MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A

Start Digest Date: 12/04/2025 Time : 14:00 Temp : 150 °C

Matrix : WATER

End Digest Date: 12/04/2025 Time : 15:00 Temp : 160 °C

Pipette ID : WC

*1st batch* 12/04/2025 15.25 1542  
12/04/2025 16.25 1602

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    | WP115589            |
| MS/MSD SPIKE SOL. | 1.0ML    | WP115588            |
| PBW               | 50.0ML   | W3112               |
| RL CHECK          | 0.1ML    | WP115588            |
| N/A               | N/A      | N/A                 |

| Chemical Used    | ML/SAMPLE USED | Lot Number |
|------------------|----------------|------------|
| BORATE BUFFER    | 2.5ML          | WP113886   |
| NAOH 6N          | 0.5-2.0ML      | WP113887   |
| H2SO4 0.04N      | 5.0ML          | WP115336   |
| 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 WP114104. Due to bad matrix and client history 1ML was taken as an initial volume for Q3772-01 and Q3772-05.

| Date / Time     | Prepped Sample Relinquished By/Location | Received By/Location |
|-----------------|-----------------------------------------|----------------------|
| 12/4/2025 16:40 | <i>RM (WC)</i>                          | <i>RM (WC)</i>       |
|                 | Preparation Group                       | Analysis Group       |

| Lab Sample ID | Client Sample ID             | Initial Vol (ml) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment                        | Prep Pos |
|---------------|------------------------------|------------------|----------------|----|---------|-----------|------------------|--------------------------------|----------|
| PB170830BL    | PBW830                       | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| PB170830BS    | LCS830                       | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3760-01DUP   | 001 WILLETS PT BLVD (DEC)DUP | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3760-01MS    | 001 WILLETS PT BLVD (DEC)MS  | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3760-01MSD   | 001 WILLETS PT BLVD (DEC)MSD | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3760-01      | 001 WILLETS PT BLVD (DEC)    | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3760-02      | 002 35TH AVE (DEC)           | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3772-01      | EFFLUENT                     | 1                | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3772-05      | INFLUENT                     | 1                | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |
| Q3785-04      | WATER-TREATMEN DISCHARGE     | 50               | 50             | <2 | N/A     | Negative  | N/A              | AFTER ADDING 6N NAOH PH IS 9.5 | N/A      |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : ammonia-12-03

WorkList ID : 193480

Department : Distillation

Date : 12-04-2025 10:37:01

| Sample   | Customer Sample           | Matrix | Test    | Preservative         | Customer | Raw Sample Storage Location | Collect Date | Method     |
|----------|---------------------------|--------|---------|----------------------|----------|-----------------------------|--------------|------------|
| Q3760-01 | 001 Willets Pt Blvd (DEc) | Water  | Ammonia | Conc H2SO4 to pH < 2 | TULL01   | A11                         | 12/02/2025   | SM4500-NH3 |
| Q3760-02 | 002 35th Ave (Dec)        | Water  | Ammonia | Conc H2SO4 to pH < 2 | TULL01   | A11                         | 12/02/2025   | SM4500-NH3 |
| Q3772-01 | EFFLUENT                  | Water  | Ammonia | Conc H2SO4 to pH < 2 | HOLL01   | A11                         | 12/03/2025   | SM4500-NH3 |
| Q3772-05 | INFLUENT                  | Water  | Ammonia | Conc H2SO4 to pH < 2 | HOLL01   | A11                         | 12/03/2025   | SM4500-NH3 |

Date/Time 12/04/2025 13:00  
 Raw Sample Received by: RM (WC)  
 Raw Sample Relinquished by: JSC (WC)

Date/Time 12/04/2025 16:16  
 Raw Sample Received by: JSC (WC)  
 Raw Sample Relinquished by: RM (WC)

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : AMMONIA-Q3785

WorkList ID : 193482

Department : Distillation

Date : 12-04-2025 14:06:05

| Sample   | Customer Sample        | Matrix | Test    | Preservative         | Customer | Raw Sample Storage Location | Collect Date | Method     |
|----------|------------------------|--------|---------|----------------------|----------|-----------------------------|--------------|------------|
| Q3785-04 | WATER-TREATMEN DISCHAR | Water  | Ammonia | Conc H2SO4 to pH < 2 | VERI01   | A11                         | 12/04/2025   | SM4500-NH3 |

Date/Time 12/04/2025 14:55  
 Raw Sample Received by: RM LWO  
 Raw Sample Relinquished by: RM LWO

Date/Time 12/04/2025 16:10  
 Raw Sample Received by: RM LWO  
 Raw Sample Relinquished by: RM LWO

**SOP ID :** M9012B-Total, Amenable and Reactive Cyanide-21

**SDG No :** N/A

**Start Digest Date:** 12/08/2025 **Time :** 08:50 **Temp :** 123 °C

**Matrix :** WATER

**End Digest Date:** 12/08/2025 **Time :** 10:20 **Temp :** 127 °C

**Pipette ID :** WC

**Balance ID :** N/A

**Hood ID :** HOOD#1

**Digestion tube ID :** M5595

**Block Thermometer ID :** WC CYANIDE

**Block ID :** MC-2

**Filter paper ID :** N/A

**Prep Technician Signature:** 
**Weigh By :** N/A

**pH Meter ID :** N/A

**Supervisor Signature:** 

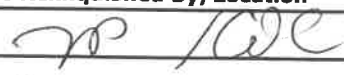
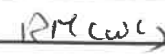
| Standard Name     | MLS USED | STD REF. # FROM LOG |
|-------------------|----------|---------------------|
| LCSW              | 1.0ML    | WP113838            |
| MS/MSD SPIKE SOL. | 0.40ML   | WP115851            |
| PBW               | 50.0ML   | W3112               |
| N/A               | N/A      | N/A                 |
| N/A               | N/A      | N/A                 |

| Chemical Used         | ML/SAMPLE USED | Lot Number |
|-----------------------|----------------|------------|
| 0.25N NaOH            | 50.0ML         | WP113836   |
| 50% v/v H2SO4         | 5.0ML          | WP115334   |
| 51% w/v MgCL2         | 2.0ML          | WP115335   |
| pH Paper 0-14         | N/A            | W3241      |
| Nitrate/Nitrite Strip | N/A            | W3182      |
| Lead Acetate strip    | N/A            | W3134      |
| Lead Acetate strip    | N/A            | W3155      |
| 0.4N Sulfamic Acid    | 5. ML          | WP115337   |
| N/A                   | N/A            | N/A        |
| N/A                   | N/A            | N/A        |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment  |
|---------------|------------------|---------------|----------|
| S0            | S0               | N/A           | N/A      |
| S5.0          | S5.0             | N/A           | N/A      |
| S10.0         | S10.0            | N/A           | N/A      |
| S100.0        | S100.0           | N/A           | N/A      |
| S250.0        | S250.0           | N/A           | N/A      |
| S500.0        | S500.0           | N/A           | N/A      |
| ICV           | ICV              | 0.5ML         | W3012    |
| ICB           | ICB              | N/A           | N/A      |
| CCV           | CCV              | N/A           | N/A      |
| CCB           | CCB              | N/A           | N/A      |
| Midrange      | Midrange         | N/A           | N/A      |
| HIGHSTD       | HIGHSTD          | 5.0ML         | WP115851 |
| LOWSTD        | LOWSTD           | 0.1ML         | WP115851 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time     | Prepped Sample Relinquished By/Location                                             | Received By/Location                                                                  |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 12/8/2025 10:30 |  |  |
|                 | Preparation Group                                                                   | Analysis Group                                                                        |

| Lab Sample ID | Client Sample ID               | Initial Vol (ml) | Final Vol (ml) | pH  | Sulfide  | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---------------|--------------------------------|------------------|----------------|-----|----------|-----------|------------------|---------|----------|
| PB170853BL    | PBW853                         | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| PB170853BS    | LCS853                         | 50               | 50             | >12 | Negative | Negative  | Negative         | N/A     | N/A      |
| Q3785-01DUP   | WATER-TREATMEN<br>DISCHARGEDUP | 50               | 50             | >12 | Negative | Negative  | Positive         | N/A     | N/A      |
| Q3785-01MS    | WATER-TREATMEN<br>DISCHARGEMS  | 50               | 50             | >12 | Negative | Negative  | Positive         | N/A     | N/A      |
| Q3785-01MSD   | WATER-TREATMEN<br>DISCHARGEMSD | 50               | 50             | >12 | Negative | Negative  | Positive         | N/A     | N/A      |
| Q3785-01      | WATER-TREATMEN<br>DISCHARGE    | 50               | 50             | >12 | Negative | Negative  | Positive         | N/A     | N/A      |

**Instrument ID:** WC SC-3

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138118**

|                  |                  |              |                      |
|------------------|------------------|--------------|----------------------|
| Review By        | jignesh          | Review On    | 12/5/2025 8:55:44 AM |
| Supervise By     | Iwona            | Supervise On | 12/5/2025 9:59:39 AM |
| SubDirectory     | LB138118         | Test         | TSS                  |
| <b>STD. NAME</b> | <b>STD REF.#</b> |              |                      |
| 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     | N/A              |              |                      |

| Sr# | SampleId    | ClientID               | QcType | Date           | Comment                    | Operator | Status |
|-----|-------------|------------------------|--------|----------------|----------------------------|----------|--------|
| 1   | LB138118BL  | LB138118BL             | MB     | 12/04/25 16:00 |                            | jignesh  | OK     |
| 2   | LB138118BS  | LB138118BS             | LCS    | 12/04/25 16:00 | 55 mg w3186 + 100 ml w3112 | jignesh  | OK     |
| 3   | Q3760-01    | 001 Willets Pt Blvd (D | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 4   | Q3760-02    | 002 35th Ave (Dec)     | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 5   | Q3760-02DUP | 002 35th Ave (Dec)DU   | DUP    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 6   | Q3771-02    | Comp                   | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 7   | Q3772-01    | EFFLUENT               | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 8   | Q3772-04    | AERATION               | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 9   | Q3773-01    | TOWER#1                | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 10  | Q3774-01    | DSN002                 | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 11  | Q3774-03    | DSN001                 | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 12  | Q3774-05    | DSN003                 | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 13  | Q3777-01    | SW-1                   | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 14  | Q3778-01    | SW-2                   | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 15  | Q3785-04    | WATER-TREATMENT        | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |

**Instrument ID:** SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138119**

|                  |                                                                               |              |                      |
|------------------|-------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | rubina                                                                        | Review On    | 12/5/2025 2:09:34 PM |
| Supervise By     | Iwona                                                                         | Supervise On | 12/5/2025 2:11:03 PM |
| SubDirectory     | LB138119                                                                      | Test         | Residual Chlorine    |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                              |              |                      |
| 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     | WP115951,WP115950,WP115945,WP115946,WP115947,WP115944,WP115948,WP115949,W3147 |              |                      |

| Sr# | SampleId    | ClientID         | QcType | Date           | Comment | Operator | Status |
|-----|-------------|------------------|--------|----------------|---------|----------|--------|
| 1   | CAL1        | CAL1             | CAL    | 12/04/25 16:50 |         | rubina   | OK     |
| 2   | CAL2        | CAL2             | CAL    | 12/04/25 16:53 |         | rubina   | OK     |
| 3   | CAL3        | CAL3             | CAL    | 12/04/25 16:56 |         | rubina   | OK     |
| 4   | CAL4        | CAL4             | CAL    | 12/04/25 17:00 |         | rubina   | OK     |
| 5   | CAL5        | CAL5             | CAL    | 12/04/25 17:03 |         | rubina   | OK     |
| 6   | CAL6        | CAL6             | CAL    | 12/04/25 17:06 |         | rubina   | OK     |
| 7   | ICV         | ICV              | ICV    | 12/04/25 17:09 |         | rubina   | OK     |
| 8   | ICB         | ICB              | ICB    | 12/04/25 17:13 |         | rubina   | OK     |
| 9   | CCV1        | CCV1             | CCV    | 12/04/25 17:16 |         | rubina   | OK     |
| 10  | CCB1        | CCB1             | CCB    | 12/04/25 17:20 |         | rubina   | OK     |
| 11  | LB138119BL  | LB138119BL       | MB     | 12/04/25 17:23 |         | rubina   | OK     |
| 12  | LB138119BS  | LB138119BS       | LCS    | 12/04/25 17:26 |         | rubina   | OK     |
| 13  | Q3530-09    | MDL-WATER-03-QT4 | SAM    | 12/04/25 17:29 |         | rubina   | OK     |
| 14  | Q3785-04    | WATER-TREATMENT  | SAM    | 12/04/25 17:32 |         | rubina   | OK     |
| 15  | Q3785-04DUP | WATER-TREATMENT  | DUP    | 12/04/25 17:35 |         | rubina   | OK     |
| 16  | Q3785-04MS  | WATER-TREATMENT  | MS     | 12/04/25 17:38 |         | rubina   | OK     |
| 17  | Q3785-04MSD | WATER-TREATMENT  | MSD    | 12/04/25 17:42 |         | rubina   | OK     |
| 18  | CCV2        | CCV2             | CCV    | 12/04/25 17:45 |         | rubina   | OK     |

**Instrument ID:** SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138119**

| Review By     | rubina                                                                        | Review On    | 12/5/2025 2:09:34 PM |
|---------------|-------------------------------------------------------------------------------|--------------|----------------------|
| Supervise By  | Iwona                                                                         | Supervise On | 12/5/2025 2:11:03 PM |
| SubDirectory  | LB138119                                                                      | 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  | WP115951,WP115950,WP115945,WP115946,WP115947,WP115944,WP115948,WP115949,W3147 |              |                      |

|    |      |      |     |                |  |        |    |
|----|------|------|-----|----------------|--|--------|----|
| 19 | CCB2 | CCB2 | CCB | 12/04/25 17:49 |  | rubina | OK |
|----|------|------|-----|----------------|--|--------|----|

**Instrument ID:** SPECTROPHOTOMETER-2

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138124**

|                  |                                                                                             |              |                      |
|------------------|---------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | Iwona                                                                                       | Review On    | 12/5/2025 1:06:59 PM |
| Supervise By     | Sohil                                                                                       | Supervise On | 12/5/2025 1:27:32 PM |
| SubDirectory     | LB138124                                                                                    | Test         | COD                  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                                            |              |                      |
| 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     | WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,WP115958,WP115959,WP115960,V |              |                      |

| Sr# | SampleId   | ClientID   | QcType | Date           | Comment | Operator | Status |
|-----|------------|------------|--------|----------------|---------|----------|--------|
| 1   | CAL1       | CAL1       | CAL    | 09/08/25 13:30 |         | Iwona    | OK     |
| 2   | CAL2       | CAL2       | CAL    | 09/08/25 13:30 |         | Iwona    | OK     |
| 3   | CAL3       | CAL3       | CAL    | 09/08/25 13:31 |         | Iwona    | OK     |
| 4   | CAL4       | CAL4       | CAL    | 09/08/25 13:31 |         | Iwona    | OK     |
| 5   | CAL5       | CAL5       | CAL    | 09/08/25 13:32 |         | Iwona    | OK     |
| 6   | CAL6       | CAL6       | CAL    | 09/08/25 13:32 |         | Iwona    | OK     |
| 7   | ICV        | ICV        | ICV    | 09/08/25 13:33 |         | Iwona    | OK     |
| 8   | ICB        | ICB        | ICB    | 09/08/25 13:33 |         | Iwona    | OK     |
| 9   | CCV1       | CCV1       | CCV    | 12/05/25 12:45 |         | Iwona    | OK     |
| 10  | CCB1       | CCB1       | CCB    | 12/05/25 12:45 |         | Iwona    | OK     |
| 11  | RL Check   | RL Check   | RL     | 12/05/25 12:46 |         | Iwona    | OK     |
| 12  | LB138124BL | LB138124BL | MB     | 12/05/25 12:46 |         | Iwona    | OK     |
| 13  | LB138124BS | LB138124BS | LCS    | 12/05/25 12:47 |         | Iwona    | OK     |
| 14  | Q3729-01   | 1          | SAM    | 12/05/25 12:47 |         | Iwona    | OK     |
| 15  | Q3774-01   | DSN002     | SAM    | 12/05/25 12:48 |         | Iwona    | OK     |
| 16  | Q3774-03   | DSN001     | SAM    | 12/05/25 12:48 |         | Iwona    | OK     |
| 17  | Q3774-04   | DSN001     | SAM    | 12/05/25 12:49 |         | Iwona    | OK     |
| 18  | Q3774-05   | DSN003     | SAM    | 12/05/25 12:49 |         | Iwona    | OK     |

**Instrument ID:** SPECTROPHOTOMETER-2

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138124**

|                  |                                                                                             |              |                      |
|------------------|---------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | Iwona                                                                                       | Review On    | 12/5/2025 1:06:59 PM |
| Supervise By     | Sohil                                                                                       | Supervise On | 12/5/2025 1:27:32 PM |
| SubDirectory     | LB138124                                                                                    | Test         | COD                  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                                            |              |                      |
| 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     | WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,WP115958,WP115959,WP115960,V |              |                      |

|    |             |                 |     |                |  |       |    |
|----|-------------|-----------------|-----|----------------|--|-------|----|
| 19 | Q3785-04    | WATER-TREATMENT | SAM | 12/05/25 12:50 |  | Iwona | OK |
| 20 | Q3785-04DUP | WATER-TREATMENT | DUP | 12/05/25 12:50 |  | Iwona | OK |
| 21 | Q3785-04MS  | WATER-TREATMENT | MS  | 12/05/25 12:51 |  | Iwona | OK |
| 22 | CCV2        | CCV2            | CCV | 12/05/25 12:51 |  | Iwona | OK |
| 23 | CCB2        | CCB2            | CCB | 12/05/25 12:52 |  | Iwona | OK |
| 24 | Q3785-04MSD | WATER-TREATMENT | MSD | 12/05/25 12:52 |  | Iwona | OK |
| 25 | CCV3        | CCV3            | CCV | 12/05/25 12:53 |  | Iwona | OK |
| 26 | CCB3        | CCB3            | CCB | 12/05/25 12:53 |  | Iwona | OK |

**Instrument ID:** KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138125**

|                  |                                     |              |                      |
|------------------|-------------------------------------|--------------|----------------------|
| Review By        | rubina                              | Review On    | 12/5/2025 4:26:35 PM |
| Supervise By     | Iwona                               | Supervise On | 12/5/2025 4:31:22 PM |
| SubDirectory     | LB138125                            | Test         | Ammonia              |
| <b>STD. NAME</b> | <b>STD REF.#</b>                    |              |                      |
| ICAL Standard    | WP115961                            |              |                      |
| ICV Standard     | WP115963                            |              |                      |
| CCV Standard     | WP115962                            |              |                      |
| ICSA Standard    | N/A                                 |              |                      |
| CRI Standard     | N/A                                 |              |                      |
| LCS Standard     | WP115589                            |              |                      |
| Chk Standard     | WP115821,WP114133,WP113929,WP114132 |              |                      |

| Sr# | SampleId    | ClientID               | QcType | Date           | Comment                     | Operator | Status   |
|-----|-------------|------------------------|--------|----------------|-----------------------------|----------|----------|
| 1   | 0.0PPM      | 0.0PPM                 | CAL1   | 12/05/25 10:29 |                             | rubina   | OK       |
| 2   | 0.1PPM      | 0.1PPM                 | CAL2   | 12/05/25 10:29 |                             | rubina   | OK       |
| 3   | 0.2PPM      | 0.2PPM                 | CAL3   | 12/05/25 10:29 |                             | rubina   | OK       |
| 4   | 0.4PPM      | 0.4PPM                 | CAL4   | 12/05/25 10:29 |                             | rubina   | OK       |
| 5   | 1.0PPM      | 1.0PPM                 | CAL5   | 12/05/25 10:29 |                             | rubina   | OK       |
| 6   | 1.3PPM      | 1.3PPM                 | CAL6   | 12/05/25 10:29 |                             | rubina   | OK       |
| 7   | 2.0PPM      | 2.0PPM                 | CAL7   | 12/05/25 10:29 |                             | rubina   | OK       |
| 8   | ICV1        | ICV1                   | ICV    | 12/05/25 11:18 |                             | rubina   | OK       |
| 9   | ICB1        | ICB1                   | ICB    | 12/05/25 11:18 |                             | rubina   | OK       |
| 10  | CCV1        | CCV1                   | CCV    | 12/05/25 11:19 |                             | rubina   | OK       |
| 11  | CCB1        | CCB1                   | CCB    | 12/05/25 11:19 |                             | rubina   | OK       |
| 12  | RL          | RL                     | LOQ    | 12/05/25 11:19 |                             | rubina   | OK       |
| 13  | PB170830BL  | PB170830BL             | MB     | 12/05/25 11:29 |                             | rubina   | OK       |
| 14  | PB170830BS  | PB170830BS             | LCS    | 12/05/25 11:29 |                             | rubina   | OK       |
| 15  | Q3760-01    | 001 Willets Pt Blvd (D | SAM    | 12/05/25 11:29 | NH3 is high, need dilution. | rubina   | Dilution |
| 16  | Q3760-01DUP | 001 Willets Pt Blvd (D | DUP    | 12/05/25 11:29 | NH3 is high, need dilution. | rubina   | Dilution |
| 17  | Q3760-01MS  | 001 Willets Pt Blvd (D | MS     | 12/05/25 11:29 |                             | rubina   | OK       |
| 18  | Q3760-01MSD | 001 Willets Pt Blvd (D | MSD    | 12/05/25 11:29 |                             | rubina   | OK       |

Instrument ID: KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138125**

|                  |                                     |              |                      |
|------------------|-------------------------------------|--------------|----------------------|
| Review By        | rubina                              | Review On    | 12/5/2025 4:26:35 PM |
| Supervise By     | Iwona                               | Supervise On | 12/5/2025 4:31:22 PM |
| SubDirectory     | LB138125                            | Test         | Ammonia              |
| <b>STD. NAME</b> | <b>STD REF.#</b>                    |              |                      |
| ICAL Standard    | WP115961                            |              |                      |
| ICV Standard     | WP115963                            |              |                      |
| CCV Standard     | WP115962                            |              |                      |
| ICSA Standard    | N/A                                 |              |                      |
| CRI Standard     | N/A                                 |              |                      |
| LCS Standard     | WP115589                            |              |                      |
| Chk Standard     | WP115821,WP114133,WP113929,WP114132 |              |                      |

|    |               |                        |     |                |                             |        |          |
|----|---------------|------------------------|-----|----------------|-----------------------------|--------|----------|
| 19 | Q3760-02      | 002 35th Ave (Dec)     | SAM | 12/05/25 11:29 | NH3 is high, need dilution. | rubina | Dilution |
| 20 | Q3772-01      | EFFLUENT               | SAM | 12/05/25 11:29 | NH3 is high, need dilution. | rubina | Dilution |
| 21 | Q3772-05      | INFLUENT               | SAM | 12/05/25 11:40 | NH3 is high, need dilution. | rubina | Dilution |
| 22 | CCV2          | CCV2                   | CCV | 12/05/25 11:40 |                             | rubina | OK       |
| 23 | CCB2          | CCB2                   | CCB | 12/05/25 11:40 |                             | rubina | OK       |
| 24 | Q3785-04      | WATER-TREATMENT        | SAM | 12/05/25 11:40 |                             | rubina | OK       |
| 25 | CCV3          | CCV3                   | CCV | 12/05/25 11:40 |                             | rubina | OK       |
| 26 | CCB3          | CCB3                   | CCB | 12/05/25 11:40 |                             | rubina | OK       |
| 27 | Q3760-01DL    | 001 Willets Pt Blvd (D | SAM | 12/05/25 12:10 | 2X For NH3                  | rubina | Confirms |
| 28 | Q3760-01DUPDL | 001 Willets Pt Blvd (D | DUP | 12/05/25 12:10 | 2X For NH3                  | rubina | Confirms |
| 29 | Q3760-02DL    | 002 35th Ave (Dec)DL   | SAM | 12/05/25 12:10 | 2X For NH3                  | rubina | Confirms |
| 30 | Q3772-01DL    | EFFLUENTDL             | SAM | 12/05/25 12:10 | 10X For NH3                 | rubina | Confirms |
| 31 | Q3772-05DL    | INFLUENTDL             | SAM | 12/05/25 12:10 | 5X For NH3                  | rubina | Confirms |
| 32 | CCV4          | CCV4                   | CCV | 12/05/25 12:17 |                             | rubina | OK       |
| 33 | CCB4          | CCB4                   | CCB | 12/05/25 12:17 |                             | rubina | OK       |

**Instrument ID:** DO METER

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138133**

|                  |                                                                      |              |                       |
|------------------|----------------------------------------------------------------------|--------------|-----------------------|
| Review By        | rubina                                                               | Review On    | 12/10/2025 3:44:22 PM |
| Supervise By     | Iwona                                                                | Supervise On | 12/10/2025 4:10:49 PM |
| SubDirectory     | LB138133                                                             | Test         | BOD5                  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                     |              |                       |
| 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     | WP115977,W3149,WP115342,W3103,W3109,W3248,WP115979,WP115978,WP113878 |              |                       |

| Sr# | SampleId    | ClientID        | QcType | Date           | Comment | Operator | Status |
|-----|-------------|-----------------|--------|----------------|---------|----------|--------|
| 1   | LB138133BL  | LB138133BL      | MB     | 12/05/25 17:00 |         | rubina   | OK     |
| 2   | LB138133BS  | LB138133BS      | LCS    | 12/05/25 17:00 |         | rubina   | OK     |
| 3   | Q3785-04    | WATER-TREATMENT | SAM    | 12/05/25 17:00 |         | rubina   | OK     |
| 4   | Q3785-04DUP | WATER-TREATMENT | DUP    | 12/05/25 17:00 |         | rubina   | OK     |
| 5   | Q3793-01    | MH-1252025      | SAM    | 12/05/25 17:00 |         | rubina   | OK     |

**Instrument ID:** WC SC-3

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138150**

|                  |                                                           |              |                       |
|------------------|-----------------------------------------------------------|--------------|-----------------------|
| Review By        | jignesh                                                   | Review On    | 12/8/2025 12:52:51 PM |
| Supervise By     | Iwona                                                     | Supervise On | 12/8/2025 1:29:53 PM  |
| SubDirectory     | LB138150                                                  | Test         | Oil and Grease        |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                          |              |                       |
| 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     | W3240,M6069,EP2665,WP115016,N/A,N/A,WP115017,N/A,WP115018 |              |                       |

| Sr# | SampleId   | ClientID               | QcType | Date           | Comment | Operator | Status |
|-----|------------|------------------------|--------|----------------|---------|----------|--------|
| 1   | LB138150BL | LB138150BL             | MB     | 12/08/25 12:37 |         | jignesh  | OK     |
| 2   | LB138150BS | LB138150BS             | LCS    | 12/08/25 12:37 |         | jignesh  | OK     |
| 3   | Q3760-01   | 001 Willets Pt Blvd (D | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 4   | Q3760-02   | 002 35th Ave (Dec)     | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 5   | Q3772-01   | EFFLUENT               | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 6   | Q3772-02   | Q3772-01MS             | MS     | 12/08/25 12:37 |         | jignesh  | OK     |
| 7   | Q3772-03   | Q3772-01MSD            | MSD    | 12/08/25 12:37 |         | jignesh  | OK     |
| 8   | Q3777-01   | SW-1                   | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 9   | Q3778-01   | SW-2                   | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 10  | Q3785-01   | WATER-TREATMENT        | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 11  | Q3785-02   | Q3785-01MS             | MS     | 12/08/25 12:37 |         | jignesh  | OK     |
| 12  | Q3785-03   | Q3785-01MSD            | MSD    | 12/08/25 12:37 |         | jignesh  | OK     |
| 13  | Q3793-01   | MH-1252025             | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 14  | Q3793-02   | Q3793-01MS             | MS     | 12/08/25 12:37 |         | jignesh  | OK     |
| 15  | Q3793-03   | Q3793-01MSD            | MSD    | 12/08/25 12:37 |         | jignesh  | OK     |

**Instrument ID:** KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138153**

|                  |                                                                |              |                      |
|------------------|----------------------------------------------------------------|--------------|----------------------|
| Review By        | rubina                                                         | Review On    | 12/8/2025 2:37:51 PM |
| Supervise By     | Iwona                                                          | Supervise On | 12/8/2025 4:06:20 PM |
| SubDirectory     | LB138153                                                       | Test         | Cyanide              |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                               |              |                      |
| ICAL Standard    | WP115986,WP115987,WP115988,WP115989,WP115990,WP115991,WP115992 |              |                      |
| ICV Standard     | W3012                                                          |              |                      |
| CCV Standard     | WP115987                                                       |              |                      |
| ICSA Standard    | N/A                                                            |              |                      |
| CRI Standard     | N/A                                                            |              |                      |
| LCS Standard     | WP113838                                                       |              |                      |
| Chk Standard     | WP115976,WP114324,WP115994                                     |              |                      |

| Sr# | SampleId     | ClientID        | QcType | Date           | Comment | Operator | Status |
|-----|--------------|-----------------|--------|----------------|---------|----------|--------|
| 1   | 0.0PPBCN     | 0.0PPBCN        | CAL1   | 12/08/25 10:45 |         | rubina   | OK     |
| 2   | 5.0PPBCN     | 5.0PPBCN        | CAL2   | 12/08/25 10:45 |         | rubina   | OK     |
| 3   | 10PPBCN      | 10PPBCN         | CAL3   | 12/08/25 10:45 |         | rubina   | OK     |
| 4   | 50PPBCN      | 50PPBCN         | CAL4   | 12/08/25 10:45 |         | rubina   | OK     |
| 5   | 100PPBCN     | 100PPBCN        | CAL5   | 12/08/25 10:45 |         | rubina   | OK     |
| 6   | 250PPBCN     | 250PPBCN        | CAL6   | 12/08/25 10:45 |         | rubina   | OK     |
| 7   | 500PPBCN     | 500PPBCN        | CAL7   | 12/08/25 10:45 |         | rubina   | OK     |
| 8   | ICV1         | ICV1            | ICV    | 12/08/25 12:47 |         | rubina   | OK     |
| 9   | ICB1         | ICB1            | ICB    | 12/08/25 12:47 |         | rubina   | OK     |
| 10  | CCV1         | CCV1            | CCV    | 12/08/25 12:47 |         | rubina   | OK     |
| 11  | CCB1         | CCB1            | CCB    | 12/08/25 12:47 |         | rubina   | OK     |
| 12  | PB170853BL   | PB170853BL      | MB     | 12/08/25 12:47 |         | rubina   | OK     |
| 13  | PB170853BS   | PB170853BS      | LCS    | 12/08/25 12:47 |         | rubina   | OK     |
| 14  | LOWPB170853  | LOWPB170853     | SAM    | 12/08/25 12:55 |         | rubina   | OK     |
| 15  | HIGHPB170853 | HIGHPB170853    | SAM    | 12/08/25 12:55 |         | rubina   | OK     |
| 16  | Q3785-01     | WATER-TREATMENT | SAM    | 12/08/25 12:55 |         | rubina   | OK     |
| 17  | Q3785-01DUP  | WATER-TREATMENT | DUP    | 12/08/25 12:55 |         | rubina   | OK     |
| 18  | Q3785-01MS   | WATER-TREATMENT | MS     | 12/08/25 13:02 |         | rubina   | OK     |

Instrument ID: KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138153**

|                  |                                                                |              |                      |
|------------------|----------------------------------------------------------------|--------------|----------------------|
| Review By        | rubina                                                         | Review On    | 12/8/2025 2:37:51 PM |
| Supervise By     | Iwona                                                          | Supervise On | 12/8/2025 4:06:20 PM |
| SubDirectory     | LB138153                                                       | Test         | Cyanide              |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                               |              |                      |
| ICAL Standard    | WP115986,WP115987,WP115988,WP115989,WP115990,WP115991,WP115992 |              |                      |
| ICV Standard     | W3012                                                          |              |                      |
| CCV Standard     | WP115987                                                       |              |                      |
| ICSA Standard    | N/A                                                            |              |                      |
| CRI Standard     | N/A                                                            |              |                      |
| LCS Standard     | WP113838                                                       |              |                      |
| Chk Standard     | WP115976,WP114324,WP115994                                     |              |                      |

|    |             |                 |     |                |  |        |    |
|----|-------------|-----------------|-----|----------------|--|--------|----|
| 19 | Q3785-01MSD | WATER-TREATMENT | MSD | 12/08/25 13:02 |  | rubina | OK |
| 20 | PB170847BL  | PB170847BL      | MB  | 12/08/25 13:02 |  | rubina | OK |
| 21 | PB170847BS  | PB170847BS      | LCS | 12/08/25 13:03 |  | rubina | OK |
| 22 | CCV2        | CCV2            | CCV | 12/08/25 13:03 |  | rubina | OK |
| 23 | CCB2        | CCB2            | CCB | 12/08/25 13:03 |  | rubina | OK |
| 24 | Q3779-01    | OILY STONE DRUM | SAM | 12/08/25 13:10 |  | rubina | OK |
| 25 | Q3801-01    | SOIL#1          | SAM | 12/08/25 13:10 |  | rubina | OK |
| 26 | Q3801-06    | SOIL#2          | SAM | 12/08/25 13:18 |  | rubina | OK |
| 27 | Q3806-01    | TR-01-12-5-2025 | SAM | 12/08/25 13:18 |  | rubina | OK |
| 28 | Q3806-04    | TR-05-12-5-2025 | SAM | 12/08/25 13:18 |  | rubina | OK |
| 29 | Q3781-01    | OK-1242025-1    | SAM | 12/08/25 13:24 |  | rubina | OK |
| 30 | Q3781-01DUP | OK-1242025-1DUP | DUP | 12/08/25 13:33 |  | rubina | OK |
| 31 | Q3781-01MS  | OK-1242025-1MS  | MS  | 12/08/25 13:33 |  | rubina | OK |
| 32 | Q3781-01MSD | OK-1242025-1MSD | MSD | 12/08/25 13:33 |  | rubina | OK |
| 33 | CCV3        | CCV3            | CCV | 12/08/25 13:36 |  | rubina | OK |
| 34 | CCB3        | CCB3            | CCB | 12/08/25 13:36 |  | rubina | OK |

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3785

**Test :** Ammonia,BOD5,COD,Cyanide,Oil and Grease,Residual Chlorine,TSS

**Prepbatch ID :** PB170830,PB170853,

**Sequence ID/Qc Batch ID:** LB138118,LB138119,LB138124,LB138125,LB138133,LB138150,LB138153,

**Standard ID :**

EP2665,WP113836,WP113838,WP113878,WP113885,WP113886,WP113887,WP113929,WP114132,WP114133,WP114324,WP114652,WP114653,WP114654,WP114655,WP114656,WP114657,WP114658,WP114659,WP114661,WP115016,WP115017,WP115018,WP115085,WP115086,WP115334,WP115335,WP115336,WP115342,WP115588,WP115589,WP115821,WP115851,WP115942,WP115943,WP115944,WP115945,WP115946,WP115947,WP115948,WP115949,WP115950,WP115951,WP115956,WP115957,WP115958,WP115959,WP115960,WP115961,WP115962,WP115963,WP115976,WP115977,WP115978,WP115979,WP115985,WP115986,WP115987,WP115988,WP115989,WP115990,WP115991,WP115992,WP115994,

**Chemical ID :**

E3875,E3972,M6069,M6151,M6186,W2653,W2654,W2663,W2666,W2817,W2871,W3009,W3012,W3019,W3082,W3103,W3109,W3112,W3113,W3130,W3131,W3132,W3133,W3139,W3147,W3149,W3152,W3155,W3169,W3182,W3195,W3196,W3201,W3203,W3219,W3222,W3224,W3240,W3241,W3248,W3252,W3253,W3254,W3257,W3259,



| <u>Recipe ID</u>                                                           | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>                |
|----------------------------------------------------------------------------|----------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-------------------------------------|
| 3923                                                                       | Baked Sodium Sulfate | <a href="#">EP2665</a> | 12/05/2025       | 06/05/2026             | RUPESHKUMAR SHAH   | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>12/05/2025 |
| <b><u>FROM</u></b> 4000.00000gram of E3875 = Final Quantity: 4000.000 gram |                      |                        |                  |                        |                    |                                     |                  |                                     |

| <u>Recipe ID</u>                                                                          | <u>NAME</u>                                | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>       |
|-------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------------|
| 11                                                                                        | Sodium hydroxide absorbing solution 0.25 N | <a href="#">WP113836</a> | 07/08/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>07/08/2025 |
| <b><u>FROM</u></b> 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L |                                            |                          |                  |                        |                    |                           |                  |                            |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>       | <u>Supervised By</u>       |
|------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------------|----------------------------|
| 3371             | Cyanide LCS Spike Solution, 5PPM | <a href="#">WP113838</a> | 07/08/2025       | 12/24/2025             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3 (WC) | Iwona Zarych<br>07/08/2025 |

**FROM** 1.00000ml of W3224 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|----------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|------------------------------|
| 1571             | Sodium hydroxide, 1N | <a href="#">WP113878</a> | 07/09/2025       | 12/31/2025             | Iwona Zarych       | WETCHEM_SCALE_7 (WC SC-6) | None             | Jignesh Parikh<br>07/09/2025 |

**FROM** 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml



| <u>Recipe ID</u>                                                                             | <u>NAME</u> | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                   | <u>PipetteID</u> | <u>Supervised By</u>           |
|----------------------------------------------------------------------------------------------|-------------|--------------------------|------------------|------------------------|--------------------|----------------------------------|------------------|--------------------------------|
| 1796                                                                                         | NaOH, 0.1N  | <a href="#">WP113885</a> | 07/10/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_S<br>CALE_8 (WC<br>SC-7) | None             | Iwona Zarych<br><br>07/10/2025 |
| <b><u>FROM</u></b> 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml |             |                          |                  |                        |                    |                                  |                  |                                |

| <u>Recipe ID</u>                                                                                               | <u>NAME</u>   | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                   | <u>PipetteID</u> | <u>Supervised By</u>           |
|----------------------------------------------------------------------------------------------------------------|---------------|--------------------------|------------------|------------------------|--------------------|----------------------------------|------------------|--------------------------------|
| 1494                                                                                                           | BORATE BUFFER | <a href="#">WP113886</a> | 07/10/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_S<br>CALE_8 (WC<br>SC-7) | None             | Iwona Zarych<br><br>07/10/2025 |
| <b><u>FROM</u></b> 0.90250L of W3112 + 9.50000gram of W3201 + 88.00000ml of WP113885 = Final Quantity: 1.000 L |               |                          |                  |                        |                    |                                  |                  |                                |



| <u>Recipe ID</u>                                                                               | <u>NAME</u>       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------------------------------------------------------------------------------------|-------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------------|
| 1471                                                                                           | NaOH Solution, 6N | <a href="#">WP113887</a> | 07/10/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>07/10/2025 |
| <b><u>FROM</u></b> 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml |                   |                          |                  |                        |                    |                           |                  |                            |

| <u>Recipe ID</u>                                                                                                  | <u>NAME</u>                | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>         | <u>PipetteID</u> | <u>Supervised By</u>       |
|-------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------|------------------------|--------------------|------------------------|------------------|----------------------------|
| 290                                                                                                               | Phenol reagent for Ammonia | <a href="#">WP113929</a> | 07/14/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_SCALE_8 (WC-7) | None             | Iwona Zarych<br>07/15/2025 |
| <b><u>FROM</u></b> 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml of W3112 = Final Quantity: 100.000 ml |                            |                          |                  |                        |                    |                        |                  |                            |



| <u>Recipe ID</u>                                                                                                     | <u>NAME</u>             | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>       |
|----------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------------|
| 635                                                                                                                  | EDTA BUFFER FOR AMMONIA | <a href="#">WP114132</a> | 07/31/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>07/31/2025 |
| <b><u>FROM</u></b> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml |                         |                          |                  |                        |                    |                           |                  |                            |

| <u>Recipe ID</u>                                                                          | <u>NAME</u>                     | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|-------------------------------------------------------------------------------------------|---------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 289                                                                                       | Sodium Hypochlorite for Ammonia | <a href="#">WP114133</a> | 07/31/2025       | 12/31/2025             | Rubina Mughal      | None           | None             | Iwona Zarych<br>08/04/2025 |
| <b><u>FROM</u></b> 50.00000ml of W3112 + 50.00000ml of W3222 = Final Quantity: 100.000 ml |                                 |                          |                  |                        |                    |                |                  |                            |



| <u>Recipe ID</u>   | <u>NAME</u>                                                                                                           | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>          | <u>PipetteID</u> | <u>Supervised By</u>         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|------------------------------|
| 607                | PYRIDINE-BARBITURIC ACID                                                                                              | <a href="#">WP114324</a> | 08/19/2025       | 02/17/2026             | Rubina Mughal      | WETCHEM_SCALE_5 (WCS-5) | Glass Pipette-A  | Jignesh Parikh<br>08/19/2025 |
| <b><u>FROM</u></b> | 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000 ml |                          |                  |                        |                    |                         |                  |                              |

| <u>Recipe ID</u>                                                                            | <u>NAME</u>            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>         | <u>PipetteID</u> | <u>Supervised By</u> |
|---------------------------------------------------------------------------------------------|------------------------|--------------------------|------------------|------------------------|--------------------|------------------------|------------------|----------------------|
| 2456                                                                                        | COD Stock std, 1000ppm | <a href="#">WP114652</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | WETCHEM_SCALE_5 (WC-5) | None             | Jignesh Parikh       |
| <b><u>FROM</u></b> 0.08500gram of W3219 + 100.00000ml of W3112 = Final Quantity: 100.000 ml |                        |                          |                  |                        |                    |                        |                  |                      |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                   | <u>PipetteID</u> | <u>Supervised By</u>             |
|------------------|---------------------------|--------------------------|------------------|------------------------|--------------------|----------------------------------|------------------|----------------------------------|
| 2457             | COD Stock std-SS, 1000ppm | <a href="#">WP114653</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | WETCHEM_S<br>CALE_5 (WC<br>SC-5) | None             | Jignesh Parikh<br><br>09/11/2025 |

**FROM** 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>             |
|------------------|----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------------|
| 139              | COD calibration std. 0 ppm | <a href="#">WP114654</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | None             | Jignesh Parikh<br><br>09/11/2025 |

**FROM** 10.00000ml of W3112 = Final Quantity: 10.000 ml



| <u>Recipe ID</u> | <u>NAME</u>                                                            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|------------------|------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 138              | COD calibration std. 10 ppm                                            | <a href="#">WP114655</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3 | Jignesh Parikh       |
| (WC)             |                                                                        |                          |                  |                        |                    |                |                   |                      |
| <u>FROM</u>      | 9.90000ml of W3112 + 0.10000ml of WP114652 = Final Quantity: 10.000 ml |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u>                                                                          | <u>NAME</u>                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|-------------------------------------------------------------------------------------------|-----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 137                                                                                       | COD calibration std. 50 ppm | <a href="#">WP114656</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | WETCHEM_FIPETTE_3<br>(WC) | Jignesh Parikh<br>09/11/2025 |
| <b><u>FROM</u></b> 9.50000ml of W3112 + 0.50000ml of WP114652 = Final Quantity: 10.000 ml |                             |                          |                  |                        |                    |                |                           |                              |



| <u>Recipe ID</u>                                                                          | <u>NAME</u>                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|-------------------------------------------------------------------------------------------|-----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 4161                                                                                      | COD calibration std. 75 ppm | <a href="#">WP114657</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | WETCHEM_FIPETTE_3<br>(WC) | Jignesh Parikh<br>09/11/2025 |
| <b><u>FROM</u></b> 9.25000ml of W3112 + 0.75000ml of WP114652 = Final Quantity: 10.000 ml |                             |                          |                  |                        |                    |                |                           |                              |

| <u>Recipe ID</u>                                                                          | <u>NAME</u>                  | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|-------------------------------------------------------------------------------------------|------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 136                                                                                       | COD calibration std. 100 ppm | <a href="#">WP114658</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | WETCHEM_FIPETTE_3<br>(WC) | Jignesh Parikh<br>09/11/2025 |
| <b><u>FROM</u></b> 9.00000ml of W3112 + 1.00000ml of WP114652 = Final Quantity: 10.000 ml |                              |                          |                  |                        |                    |                |                           |                              |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                  | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|------------------|------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 135              | COD calibration std. 150 ppm | <a href="#">WP114659</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>09/11/2025 |

**FROM** 8.50000ml of W3112 + 1.50000ml of WP114652 = Final Quantity: 10.000 ml

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|------------------|------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 2459             | COD ICV-LCS std, 50ppm | <a href="#">WP114661</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>09/11/2025 |

**FROM** 9.50000ml of W3112 + 0.50000ml of WP114653 = Final Quantity: 10.000 ml

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 229              | 1:1 HCL     | <a href="#">WP115016</a> | 10/02/2025       | 02/17/2026             | Jignesh Parikh     | None           | None             | Iwona Zarych         |
|                  |             |                          |                  |                        |                    |                |                  | 10/02/2025           |

**FROM** 500.00000ml of M6151 + 500.00000ml of W3112 = Final Quantity: 1.000 L

| <u>Recipe ID</u> | <u>NAME</u>        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                   | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------|--------------------------|------------------|------------------------|--------------------|----------------------------------|------------------|----------------------|
| 2470             | 1664A SPIKING SOLN | <a href="#">WP115017</a> | 10/02/2025       | 04/02/2026             | Jignesh Parikh     | WETCHEM_S<br>CALE_7 (WC<br>SC-6) | None             | Iwona Zarych         |
|                  |                    |                          |                  |                        |                    |                                  |                  | 10/02/2025           |

**FROM** 1000.00000ml of E3972 + 4.00000gram of W2817 + 4.00000gram of W2871 = Final Quantity: 1000.000 ml



| <u>Recipe ID</u>                                                                                                     | <u>NAME</u>                   | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>       |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------------|
| 3374                                                                                                                 | 1664A QCS spiking solution-SS | <a href="#">WP115018</a> | 10/02/2025       | 04/02/2026             | Jignesh Parikh     | WETCHEM_SCALE_7 (WC SC-6) | None             | Iwona Zarych<br>10/02/2025 |
| <b><u>FROM</u></b> 1000.00000ml of E3972 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml |                               |                          |                  |                        |                    |                           |                  |                            |

| <u>Recipe ID</u> | <u>NAME</u>                                                               | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|---------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------------|
| 153              | Ammonia Stock Std. (1000 ppm)                                             | <a href="#">WP115085</a> | 10/08/2025       | 04/08/2026             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>10/08/2025 |
| <u>FROM</u>      | 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml |                          |                  |                        |                    |                           |                  |                            |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                   | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------|
| 1895             | Ammonia Stock Std, 1000PPM-SS | <a href="#">WP115086</a> | 10/08/2025       | 04/08/2026             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych         |

**FROM** 3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

| <u>Recipe ID</u> | <u>NAME</u>              | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1714             | Sulfuric Acid, 50% (v/v) | <a href="#">WP115334</a> | 10/27/2025       | 04/27/2026             | Rubina Mughal      | None           | None             | Jignesh Parikh       |

**FROM** 500.00000ml of M6186 + 500.00000ml of W3112 = Final Quantity: 1000.000 ml



| <u>Recipe ID</u>                                                                               | <u>NAME</u>                                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|------------------------------|
| 3214                                                                                           | Magnesium Chloride For Cyanide 2.5M(51%W/V) | <a href="#">WP115335</a> | 10/27/2025       | 04/27/2026             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Jignesh Parikh<br>10/27/2025 |
| <b><u>FROM</u></b> 500.00000ml of W3112 + 510.00000gram of W3152 = Final Quantity: 1000.000 ml |                                             |                          |                  |                        |                    |                           |                  |                              |

| <u>Recipe ID</u>                                                                           | <u>NAME</u>  | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|--------------------------------------------------------------------------------------------|--------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 1597                                                                                       | 0.04 N H2SO4 | <a href="#">WP115336</a> | 10/27/2025       | 04/27/2026             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>10/27/2025 |
| <b><u>FROM</u></b> 1.00000ml of M6186 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml |              |                          |                  |                        |                    |                |                           |                              |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|------------------|-------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 1841             | Sulfuric Acid, 1N | <a href="#">WP115342</a> | 10/27/2025       | 04/27/2026             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3<br>(WC) | Jignesh Parikh<br>10/27/2025 |

**FROM** 2.80000ml of M6186 + 97.20000ml of W3112 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                     | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|------------------|---------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 1322             | Ammonia Intermediate Std, 50PPM | <a href="#">WP115588</a> | 11/10/2025       | 12/10/2025             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3<br>(WC) | Jignesh Parikh<br>11/11/2025 |

**FROM** 95.00000ml of W3112 + 5.00000ml of WP115085 = Final Quantity: 100.000 ml



| <u>Recipe ID</u>                                                                            | <u>NAME</u>                                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|---------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 1639                                                                                        | Ammonia Intermediate<br>Std-Second source, 50PPM | <a href="#">WP115589</a> | 11/10/2025       | 12/10/2025             | Rubina Mughal      | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>11/11/2025 |
| <b><u>FROM</u></b> 95.00000ml of W3112 + 5.00000ml of WP115086 = Final Quantity: 100.000 ml |                                                  |                          |                  |                        |                    |                |                               |                                  |

| <u>Recipe ID</u>                                                                    | <u>NAME</u>                          | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>          | <u>PipetteID</u> | <u>Supervised By</u>       |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|----------------------------|
| 740                                                                                 | sodium nitroferricyanide for ammonia | <a href="#">WP115821</a> | 11/25/2025       | 12/25/2025             | Rubina Mughal      | WETCHEM_SCALE_5 (WCS-5) | None             | Iwona Zarych<br>11/25/2025 |
| <b>FROM</b> 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml |                                      |                          |                  |                        |                    |                         |                  |                            |



| <u>Recipe ID</u>                                                                                         | <u>NAME</u>                           | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|----------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3850                                                                                                     | Cyanide MS-MSD spiking solution, 5PPM | <a href="#">WP115851</a> | 12/01/2025       | 12/31/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <p>(WC)</p> <p><b>FROM</b> 1.00000ml of W3257 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml</p> |                                       |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u>                                                     | <u>NAME</u>                               | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|----------------------------------------------------------------------|-------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3443                                                                 | Residual chlorine std, Intermediate 10PPM | <a href="#">WP115942</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <u>FROM</u>                                                          |                                           | (WC)                     |                  |                        |                    |                |                   |                      |
| 42.75000ml of W3112 + 7.25000ml of W3130 = Final Quantity: 50.000 ml |                                           |                          |                  |                        |                    |                |                   |                      |



| <u>Recipe ID</u>                                                     | <u>NAME</u>                                  | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|----------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3444                                                                 | Residual chlorine std, Intermediate-SS 10PPM | <a href="#">WP115943</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <u>FROM</u>                                                          |                                              | (WC)                     |                  |                        |                    |                |                   |                      |
| 42.50000ml of W3112 + 7.50000ml of W3131 = Final Quantity: 50.000 ml |                                              |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u>                                                   | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|--------------------------------------------------------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 3710                                                               | Chlorine Calibration std, 0.0ppm | <a href="#">WP115944</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | None             | Iwona Zarych<br>12/05/2025 |
| <b><u>FROM</u></b> 50.00000ml of W3112 = Final Quantity: 50.000 ml |                                  |                          |                  |                        |                    |                |                  |                            |



| <u>Recipe ID</u>                                                                           | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>       |
|--------------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|----------------------------|
| 3707                                                                                       | Chlorine Calibration std, 0.1ppm | <a href="#">WP115945</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3<br>(WC) | Iwona Zarych<br>12/05/2025 |
| <b><u>FROM</u></b> 49.50000ml of W3112 + 0.50000ml of WP115942 = Final Quantity: 50.000 ml |                                  |                          |                  |                        |                    |                |                           |                            |

| <u>Recipe ID</u>                                                                           | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>       |
|--------------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|----------------------------|
| 3708                                                                                       | Chlorine Calibration std, 0.2ppm | <a href="#">WP115946</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3<br>(WC) | Iwona Zarych<br>12/05/2025 |
| <b><u>FROM</u></b> 49.00000ml of W3112 + 1.00000ml of WP115942 = Final Quantity: 50.000 ml |                                  |                          |                  |                        |                    |                |                           |                            |



| <u>Recipe ID</u>                                                                           | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>       |
|--------------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|----------------------------|
| 3709                                                                                       | Chlorine Calibration std, 0.8ppm | <a href="#">WP115947</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3<br>(WC) | Iwona Zarych<br>12/05/2025 |
| <b><u>FROM</u></b> 46.00000ml of W3112 + 4.00000ml of WP115942 = Final Quantity: 50.000 ml |                                  |                          |                  |                        |                    |                |                           |                            |

| <u>Recipe ID</u>                                                                           | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>       |
|--------------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|----------------------------|
| 3711                                                                                       | Chlorine Calibration std, 1.6ppm | <a href="#">WP115948</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3<br>(WC) | Iwona Zarych<br>12/05/2025 |
| <b><u>FROM</u></b> 42.00000ml of W3112 + 8.00000ml of WP115942 = Final Quantity: 50.000 ml |                                  |                          |                  |                        |                    |                |                           |                            |



| <u>Recipe ID</u>                                                         | <u>NAME</u>                                       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|--------------------------------------------------------------------------|---------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3799                                                                     | Residual Chlorine Calibration and CCV std, 0.4PPM | <a href="#">WP115949</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <u>FROM</u>                                                              |                                                   | (WC)                     |                  |                        |                    |                |                   |                      |
| 96.00000ml of W3112 + 4.00000ml of WP115942 = Final Quantity: 100.000 ml |                                                   |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u>                                                                                   | <u>NAME</u>                       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|----------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3452                                                                                               | Residual chlorine ICV-LCS, 0.4PPM | <a href="#">WP115950</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <b>FROM</b> 48.00000ml of W3112 + 2.00000ml of WP115943 = Final Quantity: 50.000 ml<br><div></div> |                                   |                          |                  |                        |                    |                |                   |                      |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>       |
|------------------|--------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|----------------------------|
| 3450             | Residual chlorine LOD, 0.05PPM | <a href="#">WP115951</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3<br>(WC) | Iwona Zarych<br>12/05/2025 |

**FROM** 49.75000ml of W3112 + 0.25000ml of WP115942 = Final Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>               | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|------------------------|--------------------------|------------------|------------------------|--------------------|------------------------------|------------------|------------------------------|
| 2456             | COD Stock std, 1000ppm | <a href="#">WP115956</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | WETCHEM_SCALE_5 (WC<br>SC-5) | None             | Jignesh Parikh<br>12/05/2025 |

**FROM** 0.08500gram of W3219 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



| <u>Recipe ID</u> | <u>NAME</u>                                                              | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|--------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|------------------------------|
| 2457             | COD Stock std-SS, 1000ppm                                                | <a href="#">WP115957</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | WETCHEM_SCALE_5 (WC SC-5) | None             | Jignesh Parikh<br>12/05/2025 |
| <u>FROM</u>      | 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml |                          |                  |                        |                    |                           |                  |                              |

| <u>Recipe ID</u>                                                                          | <u>NAME</u>        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|-------------------------------------------------------------------------------------------|--------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 2458                                                                                      | COD CCV std, 50ppm | <a href="#">WP115958</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/05/2025 |
| <b><u>FROM</u></b> 9.50000ml of W3112 + 0.50000ml of WP115956 = Final Quantity: 10.000 ml |                    |                          |                  |                        |                    |                |                           |                              |



| <u>Recipe ID</u> | <u>NAME</u>                                                            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|------------------|------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 2459             | COD ICV-LCS std, 50ppm                                                 | <a href="#">WP115959</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/05/2025 |
| <u>FROM</u>      | 9.50000ml of W3112 + 0.50000ml of WP115957 = Final Quantity: 10.000 ml |                          |                  |                        |                    |                |                           |                              |

| <u>Recipe ID</u>                                                                          | <u>NAME</u> | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|-------------------------------------------------------------------------------------------|-------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 4162                                                                                      | RL CHECK    | <a href="#">WP115960</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/05/2025 |
| <b><u>FROM</u></b> 9.90000ml of W3112 + 0.10000ml of WP115956 = Final Quantity: 10.000 ml |             |                          |                  |                        |                    |                |                           |                              |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                    | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>           |
|-------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|--------------------------------|
| 275                                                                                 | Ammonia Calibration Std. (2 ppm) | <a href="#">WP115961</a> | 12/05/2025       | 12/06/2025             | Rubina Mughal      | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Iwona Zarych<br><br>12/05/2025 |
| <b>FROM</b> 48.00000ml of W3112 + 2.00000ml of WP115588 = Final Quantity: 50.000 ml |                                  |                          |                  |                        |                    |                |                               |                                |

| <u>Recipe ID</u>                                                                    | <u>NAME</u>              | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>           |
|-------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|--------------------------------|
| 285                                                                                 | Ammonia CCV Std. (1 ppm) | <a href="#">WP115962</a> | 12/05/2025       | 12/06/2025             | Rubina Mughal      | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Iwona Zarych<br><br>12/05/2025 |
| <b>FROM</b> 49.00000ml of W3112 + 1.00000ml of WP115588 = Final Quantity: 50.000 ml |                          |                          |                  |                        |                    |                |                               |                                |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>              | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>           |
|------------------|--------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|--------------------------------|
| 286              | Ammonia ICV Std. (1 ppm) | <a href="#">WP115963</a> | 12/05/2025       | 12/06/2025             | Rubina Mughal      | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Iwona Zarych<br><br>12/05/2025 |

**FROM** 49.00000ml of W3112 + 1.00000ml of WP115589 = Final Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                  | <u>PipetteID</u> | <u>Supervised By</u>             |
|------------------|-------------|--------------------------|------------------|------------------------|--------------------|---------------------------------|------------------|----------------------------------|
| 539              | CN BUFFER   | <a href="#">WP115976</a> | 12/04/2025       | 06/05/2026             | Rubina Mughal      | WETCHEM_S<br>CALE_6 (M<br>SC-4) | None             | Jignesh Parikh<br><br>12/05/2025 |

**FROM** 138.00000gram of W3254 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 127              | BOD Dilution fluid | <a href="#">WP115977</a> | 12/05/2025       | 12/06/2025             | Rubina Mughal      | None           | None             | Jignesh Parikh       |
|                  |                    |                          |                  |                        |                    |                |                  | 12/05/2025           |

**FROM** 18.00000L of W3112 + 3.00000PILLOW of W3253 = Final Quantity: 18.000 L

| <u>Recipe ID</u> | <u>NAME</u>                       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------|
| 129              | Glutamic acid-glucose mix for BOD | <a href="#">WP115978</a> | 12/05/2025       | 12/06/2025             | Rubina Mughal      | WETCHEM_SCALE_7 (WC SC-6) | None             | Jignesh Parikh       |
|                  |                                   |                          |                  |                        |                    |                           |                  | 12/05/2025           |

**FROM** 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 128              | polyseed seed control | <a href="#">WP115979</a> | 12/05/2025       | 12/06/2025             | Rubina Mughal      | None           | None             | Jignesh Parikh       |
|                  |                       |                          |                  |                        |                    |                |                  | 12/05/2025           |

**FROM** 1.00000PILLOW of W3252 + 300.00000ml of WP115977 = Final Quantity: 300.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|------------------|----------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3456             | Cyanide Intermediate Working Std, 5PPM | <a href="#">WP115985</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3 | Iwona Zarych         |
|                  |                                        |                          |                  |                        |                    |                | (WC)              | 12/08/2025           |

**FROM** 0.25000ml of W3257 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml



| <u>Recipe ID</u>                                                                                          | <u>NAME</u>                  | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|-----------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 4                                                                                                         | Calibration standard 500 ppb | <a href="#">WP115986</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <p>(WC)</p> <p><b>FROM</b> 45.00000ml of WP113836 + 5.00000ml of WP115985 = Final Quantity: 50.000 ml</p> |                              |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u>                                                                              | <u>NAME</u>                         | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>       |
|-----------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|----------------------------|
| 3761                                                                                          | Calibration-CCV CN Standard 250 ppb | <a href="#">WP115987</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3<br>(WC) | Iwona Zarych<br>12/08/2025 |
| <b><u>FROM</u></b> 2.50000ml of WP115985 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml |                                     |                          |                  |                        |                    |                |                           |                            |



| <u>Recipe ID</u>                                                                                          | <u>NAME</u>                  | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|-----------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 6                                                                                                         | Calibration Standard 100 ppb | <a href="#">WP115988</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <p>(WC)</p> <p><b>FROM</b> 1.00000ml of WP115985 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml</p> |                              |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u>                                                                                      | <u>NAME</u>                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|-------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 7                                                                                                     | Calibration Standard 50 ppb | <a href="#">WP115989</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <b>FROM</b> 0.50000ml of WP115985 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml<br><div></div> |                             |                          |                  |                        |                    |                |                   |                      |



| <u>Recipe ID</u>                                                                                          | <u>NAME</u>                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|-----------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 8                                                                                                         | Calibration Standard 10 ppb | <a href="#">WP115990</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <p>(WC)</p> <p><b>FROM</b> 1.00000ml of WP115986 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml</p> |                             |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u>                                                                              | <u>NAME</u>                | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>       |
|-----------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|----------------------------|
| 9                                                                                             | Calibration Standard 5 ppb | <a href="#">WP115991</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3<br>(WC) | Iwona Zarych<br>12/08/2025 |
| <b><u>FROM</u></b> 0.50000ml of WP115986 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml |                            |                          |                  |                        |                    |                |                           |                            |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>              | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>           |
|------------------|--------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|--------------------------------|
| 167              | 0 ppb CN calibration std | <a href="#">WP115992</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Iwona Zarych<br><br>12/08/2025 |

**FROM** 50.00000ml of WP113836 = Final Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                   | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                   | <u>PipetteID</u>   | <u>Supervised By</u>           |
|------------------|-------------------------------|--------------------------|------------------|------------------------|--------------------|----------------------------------|--------------------|--------------------------------|
| 1582             | Chloramine T solution, 0.014M | <a href="#">WP115994</a> | 12/08/2025       | 12/09/2025             | Rubina Mughal      | WETCHEM_S<br>CALE_5 (WC<br>SC-5) | Glass<br>Pipette-A | Iwona Zarych<br><br>12/08/2025 |

**FROM** 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 417203 | 07/28/2026      | 07/28/2025 / RUPESH     | 01/29/2025 / Rajesh         | E3875          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 05/24/2027      | 09/16/2025 / Evelyn     | 09/04/2025 / Riteshkumar    | E3972          |

| Supplier                    | ItemCode / ItemName                          | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|----------------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK | 80A0441 | 02/29/2028      | 09/03/2024 / jignesh    | 08/19/2024 / Jaswal         | M6069          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22G2862015 | 02/17/2026      | 02/18/2025 / Sagar      | 01/15/2025 / Sagar          | M6151          |

| Supplier         | ItemCode / ItemName                                     | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 23D2462010 | 07/12/2026      | 08/13/2025 / Sagar      | 08/06/2025 / Sagar          | M6186          |

| Supplier                    | ItemCode / ItemName                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G | A0405990 | 01/24/2030      | 01/24/2020 / apatel     | 01/24/2020 / apatel         | W2653          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                 | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-----------------------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New) | 186122A | 01/24/2030      | 01/24/2020 / apatel     | 01/24/2020 / apatel         | W2654          |

| Supplier                    | ItemCode / ItemName          | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | P1060-10 / PHENOL, ACS, 500G | 2HD0179 | 01/27/2030      | 01/27/2020 / apatel     | 01/27/2020 / apatel         | W2663          |

| Supplier                    | ItemCode / ItemName                   | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|---------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 87683 / Sodium Nitroferricyanide 250g | W12F013 | 02/10/2030      | 02/10/2020 / apatel     | 02/10/2020 / apatel         | W2666          |

| Supplier                    | ItemCode / ItemName               | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-----------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | A12244 / Stearic acid, 98%, 100 g | U20E006 | 04/02/2026      | 04/02/2021 / apatel     | 04/02/2021 / apatel         | W2817          |

| Supplier         | ItemCode / ItemName         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-----------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | H223-57 / Hexadecane, 99.0% | 0000266903 | 05/04/2027      | 09/07/2021 / apatel     | 08/26/2021 / apatel         | W2871          |

| Supplier         | ItemCode / ItemName         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-----------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | H223-57 / Hexadecane, 99.0% | SHBP8192 | 02/27/2028      | 02/27/2023 / lwona      | 02/27/2023 / lwona          | W3009          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| EPA      | / ICV-CN            | ICV6-400 | 12/31/2025      | 01/08/2025 / lwona      | 02/20/2020 / lwona          | W3012          |

| Supplier      | ItemCode / ItemName     | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------|-------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| SIGMA ALDRICH | 270970-1L / Pyridine 1L | SHBQ2113 | 04/03/2028      | 04/03/2023 / lwona      | 04/03/2023 / lwona          | W3019          |

| Supplier                    | ItemCode / ItemName               | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-----------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | A12244 / Stearic acid, 98%, 100 g | U23E020 | 02/26/2029      | 02/26/2024 / lwona      | 02/26/2024 / lwona          | W3082          |

| Supplier                    | ItemCode / ItemName                      | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 4620-32 / MANGANOUS SULFATE SOLUTION-364 | 2403J02 | 03/31/2026      | 04/22/2024 / lwona      | 04/22/2024 / lwona          | W3103          |

| Supplier                    | ItemCode / ItemName                    | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|----------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | AL04100-4 / Alkaline Iodide Azide, 1 L | 1405D67 | 04/30/2026      | 05/23/2024 / lwona      | 05/23/2024 / lwona          | W3109          |

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 / lwona      | 07/03/2024 / lwona          | W3112          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19510-7 / Sodium Hydroxide Pellets 12 Kg | 23B1556310 | 12/31/2025      | 07/08/2024 / Iwona      | 07/08/2024 / Iwona          | W3113          |

| Supplier | ItemCode / ItemName               | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-----------------------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| HACH     | 14268-10 / Chlorine Std, Pk of 16 | A4144 | 01/31/2026      | 07/25/2024 / Iwona      | 07/25/2024 / Iwona          | W3130          |

| Supplier | ItemCode / ItemName               | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-----------------------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| HACH     | 14268-10 / Chlorine Std, Pk of 16 | A4166 | 02/28/2026      | 07/25/2024 / Iwona      | 07/25/2024 / Iwona          | W3131          |

| Supplier                    | ItemCode / ItemName                             | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-------------------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC05050-1 / EDTA, disodium salt, dihydrate 1 lb | 2ND0156 | 07/10/2026      | 07/26/2024 / Iwona      | 07/26/2024 / Iwona          | W3132          |

| Supplier                    | ItemCode / ItemName                         | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|---------------------------------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 140476 / Test Paper,PH Short Range 9.0/10.0 | L23   | 08/22/2029      | 08/22/2024 / Iwona      | 08/22/2024 / Iwona          | W3133          |

| Supplier                    | ItemCode / ItemName                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | JTE494-6 / CHLORAMINE-T BAKER 250GM | 10239484 | 09/09/2029      | 09/09/2024 / Iwona      | 09/09/2024 / Iwona          | W3139          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                      | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| HACH     | 14064-99 / Total Chlorine Powder Pillows | A4230 | 08/31/2029      | 10/01/2024 / lwona      | 10/01/2024 / lwona          | W3147          |

| Supplier                    | ItemCode / ItemName             | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|---------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | AL70850-8 / Starch Solution, 4L | 4408P62 | 08/31/2026      | 10/16/2024 / lwona      | 10/16/2024 / lwona          | W3149          |

| Supplier                    | ItemCode / ItemName                                  | Lot #           | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------------------------------|-----------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG | 002126-2019-201 | 11/25/2029      | 11/25/2024 / lwona      | 11/25/2024 / lwona          | W3152          |

| Supplier                    | ItemCode / ItemName                           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-----------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12 | 14-860 | 12/02/2029      | 12/02/2024 / lwona      | 12/02/2024 / lwona          | W3155          |

| Supplier                    | ItemCode / ItemName                              | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 24H0956262 | 04/28/2026      | 01/03/2025 / lwona      | 01/03/2025 / lwona          | W3169          |

| Supplier                    | ItemCode / ItemName                              | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50 | 436101 | 04/30/2027      | 08/05/2025 / lwona      | 02/26/2025 / lwona          | W3182          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                    | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|----------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J0660-1 / AMMONIUM CHLORIDE, ACS, 500G | 24L0356561 | 08/31/2027      | 03/19/2025 / Iwona      | 03/19/2025 / Iwona          | W3195          |

| Supplier                    | ItemCode / ItemName                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|----------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J0660-1 / AMMONIUM CHLORIDE, ACS, 500G | MKCV1009 | 09/30/2026      | 03/19/2025 / Iwona      | 03/19/2025 / Iwona          | W3196          |

| Supplier                    | ItemCode / ItemName              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|----------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J3568-1 / Sodium Borate, 500 gms | BCCL9613 | 05/31/2029      | 04/16/2025 / Iwona      | 04/16/2025 / Iwona          | W3201          |

| Supplier                    | ItemCode / ItemName                    | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|----------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | EM-BX0035-3 / Barbituric Acid, 100 gms | WXBFB3271V | 05/16/2029      | 04/21/2025 / Iwona      | 04/21/2025 / Iwona          | W3203          |

| Supplier                    | ItemCode / ItemName                              | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 2025040493 | 06/30/2030      | 06/26/2025 / Iwona      | 06/26/2025 / Iwona          | W3219          |

| Supplier                    | ItemCode / ItemName                  | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J9416-1 / Sodium Hypochlorite 500 ml | 2506M51 | 12/31/2025      | 07/02/2025 / Iwona      | 07/02/2025 / Iwona          | W3222          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | LC135457 / Cyanide Standard, 1000 PPM, Second Source | 45060288 | 12/24/2025      | 07/07/2025 / Iwona      | 07/07/2025 / Iwona          | W3224          |

| Supplier         | ItemCode / ItemName                       | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 25C0362006 | 04/30/2026      | 09/15/2025 / JIGNESH    | 09/12/2025 / JIGNESH        | W3240          |

| Supplier                    | ItemCode / ItemName                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|---------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK | 10BDH15251 | 04/30/2029      | 10/02/2025 / Iwona      | 10/02/2025 / Iwona          | W3241          |

| Supplier                    | ItemCode / ItemName                           | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-----------------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE | 250904J | 02/28/2027      | 10/03/2025 / Iwona      | 10/03/2025 / Iwona          | W3248          |

| Supplier                    | ItemCode / ItemName  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|----------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 136742-80 / POLYSEED | 072505 | 05/31/2027      | 10/31/2025 / Iwona      | 10/31/2025 / Iwona          | W3252          |

| Supplier | ItemCode / ItemName                                                        | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| HACH     | 1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk | A5219 | 08/31/2030      | 11/19/2025 / Iwona      | 11/19/2025 / Iwona          | W3253          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG | 25E0756587 | 07/10/2028      | 12/01/2025 / lwona      | 11/19/2025 / lwona          | W3254          |

| Supplier                    | ItemCode / ItemName                | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | RC2543-4 / CYANIDE STD 1000PPM 4OZ | 15100125 | 03/31/2026      | 11/19/2025 / lwona      | 11/19/2025 / lwona          | W3257          |

| Supplier                  | ItemCode / ItemName                             | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------------|-------------------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| Environmental Express LTD | B1010 / COD Digestion Vials Low Level 0-150Mg/L | 5GE0004 | 05/31/2030      | 11/25/2025 / lwona      | 11/25/2025 / lwona          | W3259          |



# Certificate Of Analysis

|                   |                                     |                  |         |
|-------------------|-------------------------------------|------------------|---------|
| Item Number       | P1060                               | Lot Number       | 2HD0179 |
| Item              | Phenol, Loose Crystal, Reagent, ACS |                  |         |
| CAS Number        | 108-95-2                            |                  |         |
| Molecular Formula | C <sub>6</sub> H <sub>6</sub> O     | Molecular Weight | 94.11   |

| Test                                     | Specification |        | Result      |
|------------------------------------------|---------------|--------|-------------|
|                                          | min           | max    |             |
| ASSAY (C <sub>6</sub> H <sub>5</sub> OH) | 99.0 %        |        | 100.02 %    |
| FREEZING POINT (DRY)                     | 40.5 C        |        | 40.5°C      |
| CLARITY OF SOLUTION                      | TO PASS TEST  |        | PASSES TEST |
| RESIDUE AFTER EVAPORATION                |               | 0.05 % | <0.05 %     |
| WATER                                    |               | 0.5 %  | 0.0087 %    |
| DATE OF MANUFACTURE                      |               |        | 06-MAR-2018 |

Spectrum Chemical Mfg Corp  
755 Jersey Avenue  
New Brunswick 08901 NJ



Certificate Of Analysis Results Certified by

Ibad Tirmizi  
Director of Quality  
Spectrum Chemical Mfg. Corp.

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

Hexadecane, 99.0%



Material No.: H223-57  
Batch No.: 0000266903  
Manufactured Date: 2020/05/05  
Retest Date: 2027/05/04  
Revision No: 1

## Certificate of Analysis

| Test                                                         | Specification  | Result |
|--------------------------------------------------------------|----------------|--------|
| Assay ( $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$ ) (by GC) | $\geq 99.0 \%$ | 99.3   |
| Infrared Spectrum                                            | Passes Test    | PT     |

For Laboratory, Research or Manufacturing Use

Country of Origin: US  
Packaging Site: Paris Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700  
Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

W2666 Recived on 02/10/2020 by AP

Product No.: 87683

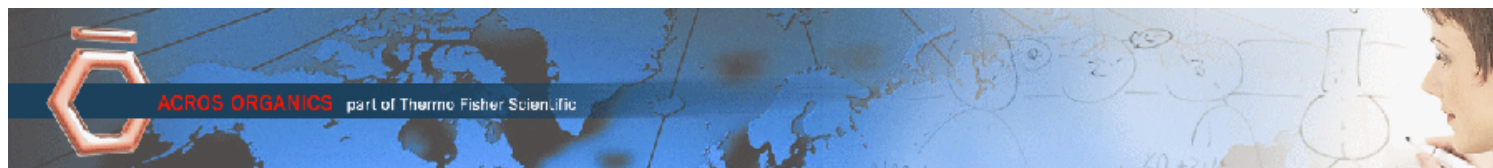
Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,  
99.0-102.0%

Lot No.: W12F013

| Test                  | Limits         | Results      |
|-----------------------|----------------|--------------|
| Assay                 | 99.0 - 102.0 % | 99.67 %      |
| Insoluble             | 0.01 % max     | 0.0079 %     |
| Chloride              | 0.02 % max     | Not detected |
| Sulfate               | To pass test   | Passes test  |
| Aqueous solubility    | To pass test   | Passes test  |
| Limit on Ferricyanide | To pass test   | Passes test  |
| Limit on Ferrocyanide | To pass test   | Passes test  |

Order our products online [alfa.com](https://www.alfa.com)**This document has been electronically generated and does not require a signature.**

This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.



**ACROS**  
**ORGANICS**

**Version** 0  
**Molecular weight** 147.13  
**Molecular formula** C<sub>5</sub> H<sub>9</sub> N O<sub>4</sub>  
**CAS No** 56-86-0  
**Linear formula** HO<sub>2</sub>CCH<sub>2</sub>CH<sub>2</sub>CH(NH<sub>2</sub>)CO<sub>2</sub>H  
**Flash point (°C)**

## Certificate of Analysis

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to human or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

|                              |                         |                                    |               |
|------------------------------|-------------------------|------------------------------------|---------------|
| <b>Catalog Number</b>        | 15621                   | <b>Quality Test / Release Date</b> | 13 March 2019 |
| <b>Lot Number</b>            | A0405990                | <b>Suggested Retest Date</b>       | March 2022    |
| <b>Description</b>           | L(+)-Glutamic acid, 99% |                                    |               |
| <b>Country of Origin</b>     | CHINA                   |                                    |               |
| <b>Declaration of Origin</b> | plant                   |                                    |               |

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <b>Origin Comment</b> | The product is made by fermentation of sugar molasses |
|-----------------------|-------------------------------------------------------|

| Result Name                                     | Specifications                                       | Test Value                               |
|-------------------------------------------------|------------------------------------------------------|------------------------------------------|
| Appearance (Color)                              | White                                                | White                                    |
| Appearance (Form)                               | Powder                                               | Powder                                   |
| Infrared spectrum                               | Conforms                                             | Conforms                                 |
| Titration with NaOH                             | 98.5 to 100.5 % (On dried substance)                 | 99.32 % (On dried substance)             |
| Loss on drying                                  | =<0.5 % (105°C, 3 hrs)                               | 0.002 % (105°C, 3 hrs)                   |
| Heavy metals (as Pb)                            | =<10 ppm                                             | =<10 ppm                                 |
| Sulfated ash                                    | =<0.1 %                                              | 0.08 %                                   |
| Other amino acids                               | not detectable                                       | not detectable                           |
| Specific optical rotation                       | +30.5° to +32.5° (20°C, 589 nm) (on dried substance) | +32° (20°C, 589 nm) (on dried substance) |
| Specific optical rotation                       | (c=10, 2N HCl)                                       | (c=10, 2N HCl)                           |
| Chloride (Cl)                                   | =<200 ppm                                            | =<200 ppm                                |
| Iron (Fe)                                       | =<30 ppm                                             | =<10 ppm                                 |
| Sulfate (SO <sub>4</sub> )                      | =<300 ppm                                            | =<200 ppm                                |
| Ammonium (NH <sub>4</sub> )                     | =<200 ppm                                            | =<200 ppm                                |
| Arsenic oxide (As <sub>2</sub> O <sub>3</sub> ) | =<1 ppm                                              | =<1 ppm                                  |



A handwritten signature in black ink, which appears to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 24 January 2020

Acros Organics

ENA23, zone 1, nr 1350, Janssen Pharmaceuticaaan 3a, B-2440 Geel, Belgium

Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: <http://www.acros.com>

1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

**Product Name:** Stearic acid, 98%, Thermo Scientific Chemicals  
**Catalog Number:** A12244.14

**CAS Number:** 57-11-4  
**Molecular Formula:** C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>  
**Molecular Weight:** 284.48  
**InChI Key:** QIQXTHQIDYTRH-UHFFFAOYSA-N  
**SMILES:** CCCCCCCCCCCCCCCC(O)=O  
**Synonym:** stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016  
stearic acid, ion(1-) (8Cl) glycon TP glycon DP acidum stearinicum hydrofol acid 150

### Product Specification

**Appearance (Color):** White  
**Form:** Crystals or powder or crystalline powder or flakes or waxy solid  
**Assay (Silylated GC):** ≥97.5%  
**Melting Point (clear melt):** 67.0-74.0°C

**Date Of Print:** 11/30/2023

*Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.*

W3009  
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

## Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

 $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$ 

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

| Test                       | Specification         | Result    |
|----------------------------|-----------------------|-----------|
| Appearance (Color)         | Colorless or White    | Colorless |
| Appearance (Form)          | Liquid or Solid       | Liquid    |
| Infrared Spectrum          | Conforms to Structure | Conforms  |
| Refractive index at 20 ° C | 1.432 - 1.436         | 1.435     |
| Purity (GC)                | ≥ 98.5 %              | 99.3 %    |
| Color Test                 | ≤ 20 APHA             | < 5 APHA  |

  
Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



W3019  
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

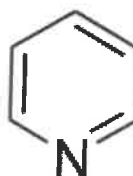
C<sub>5</sub>H<sub>5</sub>N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



| Test                    | Specification         | Result     |
|-------------------------|-----------------------|------------|
| Appearance (Color)      | Colorless             | Colorless  |
| Appearance (Form)       | Liquid                | Liquid     |
| Infrared Spectrum       | Conforms to Structure | Conforms   |
| Purity (GC)             | ≥ 99.75 %             | 99.99 %    |
| Water (by Karl Fischer) | ≤ 0.003 %             | 0.002 %    |
| Residue on Evaporation  | ≤ 0.0005 %            | < 0.0001 % |

  
Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





## Certificate of Analysis

1 Reagent Lane  
Fair Lawn, NJ 07410  
201.796.7100 tel  
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System  
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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|                   |                                                                                                                                                                                                   |                             |            |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|
| Catalog Number    | D16                                                                                                                                                                                               | Quality Test / Release Date | 03/19/2019 |
| Lot Number        | 186122A                                                                                                                                                                                           |                             |            |
| Description       | DEXTROSE, ANHYDROUS, A.C.S.                                                                                                                                                                       |                             |            |
| Country of Origin | United States                                                                                                                                                                                     | Suggested Retest Date       | Mar/2022   |
| Chemical Origin   | Organic - Plant                                                                                                                                                                                   |                             |            |
| BSE/TSE Comment   | No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product. |                             |            |
| Chemical Comment  |                                                                                                                                                                                                   |                             |            |

| N/A                      |                  |                                 |                        |
|--------------------------|------------------|---------------------------------|------------------------|
| Result Name              | Units            | Specifications                  | Test Value             |
| APPEARANCE               |                  | REPORT                          | White, granular powder |
| TITRATABLE ACID          | MEQ/G            | <= 0.002                        | <0.002                 |
| STARCH                   |                  | = PASS TEST                     | pass test              |
| SPECIFIC ROTATION @ 25 C | DEGREES (+ OR -) | Inclusive Between +52.5 - +53.0 | 53.0                   |
| SULFATE & SULFITE        | %                | <= 0.005                        | <0.005                 |
| IRON (Fe)                | ppm              | <= 5                            | <5                     |
| CHLORIDE                 | %                | <= 0.01                         | <0.01                  |
| IGNITION RESIDUE         | %                | <= 0.02                         | <0.02                  |
| IDENTIFICATION           | PASS/FAIL        | = PASS TEST                     | pass test              |
| HEAVY METALS (as Pb)     | ppm              | <= 5                            | <5                     |
| LOSS ON DRYING @ 105 C   | %                | <= 0.2                          | <0.2                   |
| INSOLUBLE MATTER         | %                | <= 0.005                        | 0.002                  |

*Jerisa Bailey-Wyche*

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701.

\*Based on suggested storage condition.



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MÉXICO  
CP 64070  
TEL +52 81 13 52 67 67  
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

|                       |                                   |               |                                 |
|-----------------------|-----------------------------------|---------------|---------------------------------|
| PRODUCT :             | SODIUM SULFATE CRYSTALS ANHYDROUS |               |                                 |
| QUALITY :             | ACS (CODE RMB3375)                | FORMULA :     | Na <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER: | 6399                              | RELEASE DATE: | MAY/23/2024                     |
| LOT NUMBER :          | 417203                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.8 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.2         |
| Insoluble matter                         | Max. 0.01%     | 0.001 %     |
| Loss on ignition                         | Max. 0.5%      | 0.1 %       |
| Chloride (Cl)                            | Max. 0.001%    | <0.001 %    |
| Nitrogen compounds (as N)                | Max. 5 ppm     | <5 ppm      |
| Phosphate (PO <sub>4</sub> )             | Max. 0.001%    | <0.001 %    |
| Heavy metals (as Pb)                     | Max. 5 ppm     | <5 ppm      |
| Iron (Fe)                                | Max. 0.001%    | <0.001 %    |
| Calcium (Ca)                             | Max. 0.01%     | 0.001 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.001 %     |
| Extraction-concentration suitability     | Passes test    | Passes test |
| Appearance                               | Passes test    | Passes test |
| Identification                           | Passes test    | Passes test |
| Solubility and foreign matter            | Passes test    | Passes test |
| Retained on US Standard No. 10 sieve     | Max. 1%        | 0.2 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 96.2 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 3.5 %       |
| Through US Standard No. 100 sieve        | Max. 10%       | 0.1 %       |

## COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 99.4 %     | 99.8 %      |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.2 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (µeq/g)                                                  | <= 0.3        | 0.2         |
| Titration Base (µeq/g)                                                  | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                                | <= 0.5 %      | 0.2 %       |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)    | <= 5          | <1          |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)    | <= 10         | 1           |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



R: 02/20/20  
53

**Instructions for QATS Reference Material: Inorganic ICV Solutions**

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

**ICV5-0415**

For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v)  $K_2Cr_2O_7$  and 5% (v/v) nitric acid.

**ICV6-0400**

For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from  $K_3Fe(CN)_6$ , Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

**NOTE:** USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

**(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS**

| ICV1-1014 |                                                  |                                                  |
|-----------|--------------------------------------------------|--------------------------------------------------|
| Element   | Concentration (µg/L)<br>(after 10-fold dilution) | Concentration (µg/L)<br>(after 50-fold dilution) |
| Al        | 2520                                             | 504                                              |
| Sb        | 1010                                             | 202                                              |
| As        | 997                                              | 199                                              |
| Ba        | 518                                              | 104                                              |
| Be        | 514                                              | 103                                              |
| Cd        | 514                                              | 103                                              |
| Ca        | 10000                                            | 2000                                             |
| Cr        | 517                                              | 103                                              |
| Co        | 521                                              | 104                                              |
| Cu        | 505                                              | 101                                              |
| Fe        | 10100                                            | 2020                                             |
| Pb        | 1030                                             | 206                                              |
| Mg        | 5990                                             | 1198                                             |
| Mn        | 524                                              | 105                                              |
| Ni        | 525                                              | 105                                              |
| K         | 9940                                             | 1988                                             |
| Se        | 1030                                             | 206                                              |
| Ag        | 252                                              | 50                                               |
| Na        | 10100                                            | 2020                                             |
| Tl        | 1040                                             | 208                                              |
| V         | 504                                              | 101                                              |
| Zn        | 1010                                             | 202                                              |

| ICV5-0415 |                                                   | ICV6-0400       |                                                   |
|-----------|---------------------------------------------------|-----------------|---------------------------------------------------|
| Element   | Concentration (µg/L)<br>(after 100-fold dilution) | Analyte         | Concentration (µg/L)<br>(after 100-fold dilution) |
| Hg        | 4.0                                               | CN <sup>-</sup> | 99                                                |

W3011  
W3012  
W3013  
W3014  
W3015



## Certificate of Analysis

### Product information

|                      |                                |
|----------------------|--------------------------------|
| Product              | pH-Fix 0.3-2.3                 |
| REF                  | 92180                          |
| LOT                  | 80A0441                        |
| Expiration date:     | 29.02.2028                     |
| Date of examination: | 23.01.2024                     |
| Gradation:           | pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3 |

### Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.



Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantor™**



M6151

R → 11/15/25

Material No.: 9530-33  
Batch No.: 22G2862015  
Manufactured Date: 2022-06-15  
Retest Date: 2027-06-14  
Revision No.: 0

## Certificate of Analysis

| Test                                      | Specification | Result      |
|-------------------------------------------|---------------|-------------|
| ACS – Assay (as HCl) (by acid–base titrn) | 36.5 – 38.0 % | 37.9 %      |
| ACS – Color (APHA)                        | ≤ 10          | 5           |
| ACS – Residue after Ignition              | ≤ 3 ppm       | < 1 ppm     |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.191       |
| ACS – Bromide (Br)                        | ≤ 0.005 %     | < 0.005 %   |
| ACS – Extractable Organic Substances      | ≤ 5 ppm       | < 1 ppm     |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | ≤ 0.5 ppm     | < 0.5 ppm   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3 ppm   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3 ppm     |
| Ammonium (NH <sub>4</sub> )               | ≤ 3 ppm       | < 1 ppm     |
| Trace Impurities – Arsenic (As)           | ≤ 0.010 ppm   | < 0.003 ppm |
| Trace Impurities – Aluminum (Al)          | ≤ 10.0 ppb    | 1.3 ppb     |
| Arsenic and Antimony (as As)              | ≤ 5.0 ppb     | < 3.0 ppb   |
| Trace Impurities – Barium (Ba)            | ≤ 1.0 ppb     | 0.2 ppb     |
| Trace Impurities – Beryllium (Be)         | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Bismuth (Bi)           | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Boron (B)              | ≤ 20.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)           | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Calcium (Ca)           | ≤ 50.0 ppb    | 163.0 ppb   |
| Trace Impurities – Chromium (Cr)          | ≤ 1.0 ppb     | 0.7 ppb     |
| Trace Impurities – Cobalt (Co)            | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Copper (Cu)            | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities – Gallium (Ga)           | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Germanium (Ge)         | ≤ 3.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Gold (Au)              | ≤ 4.0 ppb     | 0.6 ppb     |
| Heavy Metals (as Pb)                      | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)              | ≤ 15 ppb      | 6 ppb       |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33  
Batch No.: 22G2862015

| Test                                                   | Specification | Result     |
|--------------------------------------------------------|---------------|------------|
| Trace Impurities – Lead (Pb)                           | ≤ 1.0 ppb     | < 0.5 ppb  |
| Trace Impurities – Lithium (Li)                        | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Magnesium (Mg)                      | ≤ 10.0 ppb    | 2.9 ppb    |
| Trace Impurities – Manganese (Mn)                      | ≤ 1.0 ppb     | < 0.4 ppb  |
| Trace Impurities – Mercury (Hg)                        | ≤ 0.5 ppb     | 0.1 ppb    |
| Trace Impurities – Molybdenum (Mo)                     | ≤ 10.0 ppb    | < 3.0 ppb  |
| Trace Impurities – Nickel (Ni)                         | ≤ 4.0 ppb     | < 0.3 ppb  |
| Trace Impurities – Niobium (Nb)                        | ≤ 1.0 ppb     | 0.8 ppb    |
| Trace Impurities – Potassium (K)                       | ≤ 9.0 ppb     | < 2.0 ppb  |
| Trace Impurities – Selenium (Se), For Information Only |               | < 1.0 ppb  |
| Trace Impurities – Silicon (Si)                        | ≤ 100.0 ppb   | < 10.0 ppb |
| Trace Impurities – Silver (Ag)                         | ≤ 1.0 ppb     | 0.5 ppb    |
| Trace Impurities – Sodium (Na)                         | ≤ 100.0 ppb   | 2.3 ppb    |
| Trace Impurities – Strontium (Sr)                      | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Tantalum (Ta)                       | ≤ 1.0 ppb     | 1.6 ppb    |
| Trace Impurities – Thallium (Tl)                       | ≤ 5.0 ppb     | < 2.0 ppb  |
| Trace Impurities – Tin (Sn)                            | ≤ 5.0 ppb     | 4.0 ppb    |
| Trace Impurities – Titanium (Ti)                       | ≤ 1.0 ppb     | 1.5 ppb    |
| Trace Impurities – Vanadium (V)                        | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Zinc (Zn)                           | ≤ 5.0 ppb     | 0.8 ppb    |
| Trace Impurities – Zirconium (Zr)                      | ≤ 1.0 ppb     | 0.3 ppb    |

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA–ANALYZED® Reagent  
For Trace Metal Analysis



Material No.: 9530-33  
Batch No.: 22G2862015

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Laboratory, Research, or Manufacturing Use  
Product Information (not specifications):  
Appearance (clear, fuming liquid)  
Meets ACS Specifications  
Storage Condition: Store below 25 °C.

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in cursive script that reads 'Jamie Ethier'.  
Jamie Ethier  
Vice President Global Quality

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

avantor™



M6186

Reciev Date :- 08/06/25

Material No.: 9673-33  
Batch No.: 23D2462010  
Manufactured Date: 2023-03-22  
Retest Date: 2028-03-20  
Revision No.: 0

## Certificate of Analysis

| Test                                                         | Specification | Result      |
|--------------------------------------------------------------|---------------|-------------|
| ACS - Assay (H <sub>2</sub> SO <sub>4</sub> )                | 95.0 - 98.0 % | 96.1 %      |
| Appearance                                                   | Passes Test   | Passes Test |
| ACS - Color (APHA)                                           | ≤ 10          | 5           |
| ACS - Residue after Ignition                                 | ≤ 3 ppm       | < 1 ppm     |
| ACS - Substances Reducing Permanganate (as SO <sub>2</sub> ) | ≤ 2 ppm       | < 2 ppm     |
| Ammonium (NH <sub>4</sub> )                                  | ≤ 1 ppm       | 1 ppm       |
| Chloride (Cl)                                                | ≤ 0.1 ppm     | < 0.1 ppm   |
| Nitrate (NO <sub>3</sub> )                                   | ≤ 0.2 ppm     | < 0.1 ppm   |
| Phosphate (PO <sub>4</sub> )                                 | ≤ 0.5 ppm     | < 0.1 ppm   |
| Trace Impurities - Aluminum (Al)                             | ≤ 30.0 ppb    | < 5.0 ppb   |
| Arsenic and Antimony (as As)                                 | ≤ 4.0 ppb     | < 2.0 ppb   |
| Trace Impurities - Boron (B)                                 | ≤ 10.0 ppb    | 8.5 ppb     |
| Trace Impurities - Cadmium (Cd)                              | ≤ 2.0 ppb     | < 0.3 ppb   |
| Trace Impurities - Chromium (Cr)                             | ≤ 6.0 ppb     | < 0.4 ppb   |
| Trace Impurities - Cobalt (Co)                               | ≤ 0.5 ppb     | < 0.3 ppb   |
| Trace Impurities - Copper (Cu)                               | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities - Gold (Au)                                 | ≤ 10.0 ppb    | 0.5 ppb     |
| Heavy Metals (as Pb)                                         | ≤ 500.0 ppb   | < 100.0 ppb |
| Trace Impurities - Iron (Fe)                                 | ≤ 50.0 ppb    | 1.3 ppb     |
| Trace Impurities - Lead (Pb)                                 | ≤ 0.5 ppb     | < 0.5 ppb   |
| Trace Impurities - Magnesium (Mg)                            | ≤ 7.0 ppb     | 0.8 ppb     |
| Trace Impurities - Manganese (Mn)                            | ≤ 1.0 ppb     | < 0.4 ppb   |
| Trace Impurities - Mercury (Hg)                              | ≤ 0.5 ppb     | < 0.1 ppb   |
| Trace Impurities - Nickel (Ni)                               | ≤ 2.0 ppb     | 0.3 ppb     |
| Trace Impurities - Potassium (K)                             | ≤ 500.0 ppb   | < 2.0 ppb   |
| Trace Impurities - Selenium (Se)                             | ≤ 50.0 ppb    | < 0.1 ppb   |
| Trace Impurities - Silicon (Si)                              | ≤ 100.0 ppb   | 31.5 ppb    |
| Trace Impurities - Silver (Ag)                               | ≤ 1.0 ppb     | < 0.3 ppb   |

>>> Continued on page 2 >>>

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

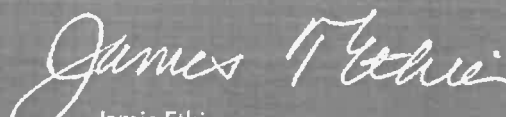


Material No.: 9673-33  
Batch No.: 23D2462010

| Test                              | Specification    | Result      |
|-----------------------------------|------------------|-------------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | 5.4 ppb     |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 0.2$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | $< 0.8$ ppb |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ ppb   | 0.4 ppb     |

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality

# Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244  
Product: Stearic acid, 98%  
Lot No.: U23E020

Appearance White flakes  
Assay 98.7 %

This document has been electronically generated and does not require a signature.

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**ThermoFisher**  
S C I E N T I F I C



# Certificate of Analysis

**Manganous Sulfate Solution, 364 g/L****Lot Number:** 2403J02**Product Number:** 4620**Manufacture Date:** MAR 15, 2024**Expiration Date:** MAR 2026

| Name                          | CAS#       | Grade           |
|-------------------------------|------------|-----------------|
| Water                         | 7732-18-5  | ACS/ASTM/USP/EP |
| Manganous Sulfate Monohydrate | 10034-96-5 | Reagent         |
| Sulfuric Acid                 | 7664-93-9  | ACS             |

| Test                        | Specification | Result  |
|-----------------------------|---------------|---------|
| Appearance                  | Pink liquid   | Passed  |
| Assay (by Refractive Index) | 360-368 g/L   | 367 g/L |

| Specification              | Reference       |
|----------------------------|-----------------|
| Manganous Sulfate Solution | ASTM (D 888 A)  |
| Manganous Sulfate Solution | ASTM (D 888 A)  |
| Manganous Sulfate Solution | APHA (4500-O E) |
| Manganous Sulfate Solution | APHA (4500-O F) |
| Manganous Sulfate Solution | APHA (4500-O D) |
| Manganous Sulfate Solution | APHA (4500-O E) |
| Manganous Sulfate Solution | APHA (4500-O F) |
| Manganous Sulfate Solution | APHA (4500-O D) |
| Manganous Sulfate Solution | APHA (4500-O C) |
| Manganous Sulfate Solution | APHA (4500-O C) |
| Manganous Sulfate Solution | EPA (360.2)     |
| Manganous Sulfate Solution | EPA (360.2)     |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 4620-32     | 1 L natural poly    | 24 months                       |

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Jose Pena (03/15/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --  
Contents of Certificates and Labels."

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# Certificate of Analysis

## Alkaline-Iodide-Azide, Pomeroy Formulation for Dissolved Oxygen (DO) Analysis

**Lot Number:** 1405D67

**Product Number:** 535

**Manufacture Date:** APR 05, 2024

**Expiration Date:** APR 2026

This solution is intended for use with samples with high Dissolved Oxygen content (above 15 mg/L) and for samples with high concentrations of organic material.

| Name             | CAS#       | Grade           |
|------------------|------------|-----------------|
| Water            | 7732-18-5  | ACS/ASTM/USP/EP |
| Sodium Iodide    | 7681-82-5  | ACS             |
| Sodium Hydroxide | 1310-73-2  | ACS             |
| Sodium Azide     | 26628-22-8 | Reagent         |

| Test        | Specification    | Result |
|-------------|------------------|--------|
| Appearance  | Colorless liquid | Passed |
| Free Iodine | To Pass Test     | Passed |

| Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Reference      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Alkaline Iodide-Sodium Azide Solution II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASTM (D 888 A) |
| Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured. |                |

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 535-32      | 1 L natural poly    | 24 months                       |

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Heidi J Green (04/05/2024)  
Operations Manager

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# Certificate of Analysis



## Sodium Hydroxide (Pellets)

**Material:** 0583  
**Grade:** ACS GRADE  
**Batch Number:** 23B1556310

Chemical Formula: NaOH  
Molecular Weight: 40  
CAS #: 1310-73-2  
Appearance:

Manufacture Date: 12/14/2022  
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

| TEST               | SPECIFICATION | ANALYSIS | DISPOSITION |
|--------------------|---------------|----------|-------------|
| Calcium            | <= 0.005 %    | <0.005 % | PASS        |
| Chloride           | <= 0.005 %    | 0.002 %  | PASS        |
| Heavy Metals       | <= 0.002 %    | <0.002 % | PASS        |
| Iron               | <= 0.001 %    | <0.001 % | PASS        |
| Magnesium          | <= 0.002 %    | <0.002 % | PASS        |
| Mercury            | <= 0.1 ppm    | <0.1 ppm | PASS        |
| Nickel             | <= 0.001 %    | <0.001 % | PASS        |
| Nitrogen Compounds | <= 0.001 %    | <0.001 % | PASS        |
| Phosphate          | <= 0.001 %    | <0.001 % | PASS        |
| Potassium          | <= 0.02 %     | <0.02 %  | PASS        |
| Purity             | >= 97.0 %     | 99.2 %   | PASS        |
| Sodium Carbonate   | <= 1.0 %      | 0.5 %    | PASS        |
| Sulfate            | <= 0.003 %    | <0.003 % | PASS        |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon  
VWR Chemicals, LLC.  
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



## Sodium Hydroxide (Pellets)

**Material:** 0583  
**Grade:** ACS GRADE  
**Batch Number:** 23B1556310

Chemical Formula: NaOH  
Molecular Weight: 40  
CAS #: 1310-73-2  
Appearance:

Manufacture Date: 12/14/2022  
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon  
VWR Chemicals, LLC.  
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



An ISO 9001 Certified Company

Loveland, CO 80539

(970) 669-3050

## Certificate of Analysis

**PRODUCT:** Chlorine Solution Ampule 50-75 mg/l

**PRODUCT NUMBER:** 1426810

**LOT NUMBER:** A4144

**MANUFACTURE DATE:** 05/28/2024

**DATE OF ANALYSIS:** 05/30/2024

| TEST                                         | SPECIFICATIONS | RESULTS   |
|----------------------------------------------|----------------|-----------|
| Standard Deviation for the ampules sampled   | 0 to 0.4 mg/L  | 0.10 mg/L |
| Mean Chlorine Concentration ampules sampled. | 50 to 75 mg/L  | 60.9 mg/L |

The expiration date is Jan 2026

Certified by: *Scott Als*

Analytical Services Chemist



An ISO 9001 Certified Company

Loveland, CO 80539

(970) 669-3050

## Certificate of Analysis

**PRODUCT:** Chlorine Solution Ampule 50-75 mg/l

**PRODUCT NUMBER:** 1426810

**LOT NUMBER:** A4166

**MANUFACTURE DATE:** 06/24/2024

**DATE OF ANALYSIS:** 06/25/2024

| TEST                                         | SPECIFICATIONS | RESULTS   |
|----------------------------------------------|----------------|-----------|
| Standard Deviation for the ampules sampled   | 0 to 0.4 mg/L  | 0.10 mg/L |
| Mean Chlorine Concentration ampules sampled. | 50 to 75 mg/L  | 61.9 mg/L |

The expiration date is Feb 2026

Certified by: *Scott Als*

Analytical Services Chemist

|                   |                                                                                                  |                  |           |
|-------------------|--------------------------------------------------------------------------------------------------|------------------|-----------|
| Item Number       | ED150                                                                                            | Lot Number       | 2ND0156   |
| Item              | Edetate Disodium, Dihydrate, USP                                                                 | CAS Number       | 6381-92-6 |
| Molecular Formula | C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub> •2H <sub>2</sub> O | Molecular Weight | 372.24    |

| TEST                                                           | SPECIFICATION                                         |             | RESULT                                                |
|----------------------------------------------------------------|-------------------------------------------------------|-------------|-------------------------------------------------------|
|                                                                | MIN                                                   | MAX         |                                                       |
| ASSAY (DRIED BASIS)                                            | 99.0                                                  | 101.0 %     | 99.5 %                                                |
| pH OF A 5% SOLUTION @ 25°C                                     | 4.0                                                   | 6.0         | 4.6                                                   |
| LOSS ON DRYING                                                 | 8.7                                                   | 11.4 %      | 8.90 %                                                |
| CALCIUM (Ca)                                                   | NO PRECIPITATE IS FORMED                              |             | NO PRECIPITATE IS FORMED                              |
| ELEMENTAL IMPURITIES:                                          |                                                       |             | .                                                     |
| NICKEL (Ni)                                                    | AS REPORTED                                           |             | <0.3 ppm                                              |
| CHROMIUM (Cr)                                                  | AS REPORTED                                           |             | <0.3 ppm                                              |
| NITRILOTRIACETIC ACID[n[(HOCOCH <sub>2</sub> ) <sub>3</sub> N] |                                                       | 0.1 %       | <0.10 %                                               |
| IDENTIFICATION A                                               | MATCHES REFERENCE                                     |             | MATCHES REFERENCE                                     |
| IDENTIFICATION B                                               | RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION |             | RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION |
| IDENTIFICATION C                                               | MEETS THE REQUIREMENTS FOR SODIUM                     |             | MEETS THE REQUIREMENTS FOR SODIUM                     |
| CERTIFIED HALAL                                                |                                                       |             | CERTIFIED HALAL                                       |
| EXPIRATION DATE                                                |                                                       |             | 10-JUL-2026                                           |
| DATE OF MANUFACTURE                                            |                                                       |             | 11-JUL-2023                                           |
| APPEARANCE                                                     |                                                       |             | WHITE CRYSTALLINE POWDER                              |
| RESIDUAL SOLVENTS                                              |                                                       | AS REPORTED | NO RESIDUAL SOLVENTS PRESENT                          |
| MONOGRAPH EDITION                                              |                                                       |             | USP 2024                                              |

Certificate of Analysis Results Entered By:

CACEVEDO  
Charmian Acevedo  
22-MAY-24 08:12:30

Certificate of Analysis Results Approved By:

GHERRERA  
Genaro Herrera  
22-MAY-24 12:32:01

Spectrum Chemical Mfg Corp  
755 Jersey Avenue  
New Brunswick 08901 NJ



**All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.**

**Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.**

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

W3139 Received on 9/9/24 by IZ

Product No.: A12044  
Product: Chloramine-T trihydrate, 98%  
Lot No.: 10239484

|                               |              |
|-------------------------------|--------------|
| Appearance:                   | White powder |
| Melting Point:                | 166°C(dec)   |
| Assay (Iodometric titration): | 100.5%       |
| Identification (FTIR):        | Conforms     |

Order our products online [thermofisher.com/chemicals](https://thermofisher.com/chemicals)

**This document has been electronically generated and does not require a signature.**

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.



An ISO 9001 Certified Company

Loveland, CO 80539

(970) 669-3050

## Certificate of Analysis

**PRODUCT:** DPD Total Chlorine Reagent

**PRODUCT NUMBER:** 1406499

**LOT NUMBER:** A4230

**MANUFACTURE DATE:** 08/27/2024

**DATE OF ANALYSIS:** 08/28/2024

| TEST                                                                                                                       | SPECIFICATIONS | RESULTS    |
|----------------------------------------------------------------------------------------------------------------------------|----------------|------------|
| Percent Recovery for a 2.5 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration. | 93 to 107 %    | 95.7 %     |
| pH of reagent in 50 mL of DI water.                                                                                        | 6.2 to 6.5     | 6.40       |
| Percent Recovery for a 5.0 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration. | 93 to 107 %    | 96.2 %     |
| Hardness Blank: 1000 ppm as Calcium Carbonate Hardness standard vs DI water measured at 530 nm in 1 cm cells.              | 0 to 0.009 abs | 0.0020 abs |

The expiration date is Aug 2029

Certified by: *Scott Als*

Analytical Services Chemist



# Certificate of Analysis

## Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

| Name            | CAS#      | Grade           |
|-----------------|-----------|-----------------|
| Water           | 7732-18-5 | ACS/ASTM/USP/EP |
| Starch, soluble | 9005-84-9 | ACS             |
| Salicylic Acid  | 69-72-7   | ACS             |

| Test                | Specification                                        | Result |
|---------------------|------------------------------------------------------|--------|
| Appearance          | White translucent liquid                             | Passed |
| Suitability for Use | Colorless (Iodine absent) - Blue<br>(Iodine present) | Passed |

| Specification             | Reference           |
|---------------------------|---------------------|
| Starch Solution           | APHA (4500-S2- F)   |
| Starch Indicator Solution | APHA (4500-CI B)    |
| Starch Indicator          | APHA (4500-SO32- B) |
| Starch indicator solution | APHA (2350 B)       |
| Starch indicator solution | APHA (2350 E)       |
| Starch Solution           | APHA (510 B)        |
| Starch Solution           | APHA (5530 C)       |
| Starch Indicator          | APHA (4500-CI C)    |
| Starch Indicator          | EPA (345.1)         |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 8000-1      | 4 L natural poly    | 24 months                       |
| 8000-16     | 500 mL natural poly | 24 months                       |
| 8000-32     | 1 L natural poly    | 24 months                       |

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

A handwritten signature in blue ink that reads "Paul Brandon". The signature is fluid and cursive, with the first name "Paul" and last name "Brandon" clearly distinguishable.

Paul Brandon (08/28/2024)  
Production Manager

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# Chem-Impex International, Inc.

---

**Tel:** (630) 766-2112**E-mail:** sales@chemimpex.com**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218**Web site:** www.chemimpex.com**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Catalogue Number</b> | 01237                                 |
| <b>Lot Number</b>       | 002126-2019-201                       |
| <b>Product</b>          | <b>Magnesium chloride hexahydrate</b> |

Magnesium chloride•6H<sub>2</sub>O

|                          |                                      |
|--------------------------|--------------------------------------|
| <b>CAS Number</b>        | 7791-18-6                            |
| <b>Molecular Formula</b> | MgCl <sub>2</sub> •6H <sub>2</sub> O |
| <b>Molecular Weight</b>  | 203.3                                |

---

|                           |                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>         | White crystals                                                                                                                                                                                                              |
| <b>Solubility</b>         | 167 g in 100 mL water                                                                                                                                                                                                       |
| <b>Melting Point</b>      | ~ 115 °C                                                                                                                                                                                                                    |
| <b>Heavy Metals</b>       | 4.393 ppm                                                                                                                                                                                                                   |
| <b>Anion</b>              | Nitrate (NO <sub>3</sub> ) : < 0.001%<br>Phosphate (PO <sub>4</sub> ) : < 5 ppm<br>Sulfate (SO <sub>4</sub> ) : < 0.002%                                                                                                    |
| <b>Cation</b>             | Ammonium (NH <sub>4</sub> ) : < 0.002%<br>Barium (Ba) : 0.005%<br>Calcium (Ca) : 0.01%<br>Iron (Fe) : 4.5 ppm<br>Manganese (Mn) : 0.624 ppm<br>Potassium (K) : 0.004%<br>Sodium (Na) : 0.000003%<br>Strontium (Sr) : 0.005% |
| <b>Insoluble material</b> | 0.0021%                                                                                                                                                                                                                     |
| <b>Assay by titration</b> | 100.83%                                                                                                                                                                                                                     |
| <b>Grade</b>              | ACS reagent                                                                                                                                                                                                                 |
| <b>Storage</b>            | Store at RT                                                                                                                                                                                                                 |

## ***Certificate of Analysis***

**Catalog Number: 01237**

**Lot Number: 002126-2019-201**

---

**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**



|                      |                                |
|----------------------|--------------------------------|
| Material             | BDH9260-500G                   |
| Material Description | BDH POTASS HYDRGN PHTHLTE 500G |
| Grade                | ACS GRADE                      |
| Batch                | 24H0956262                     |
| Reassay Date         | 04/28/2026                     |
| CAS Number           | 877-24-7                       |
| Molecular Formula    | HOCC6H4COOK                    |
| Molecular Mass       | 204.22                         |
| Date of Manufacture  | 04/29/2023                     |
| Storage              | Room Temperature               |

| Characteristics        | Specifications   | Measured Values |
|------------------------|------------------|-----------------|
| Appearance             | White crystals.  | White crystals. |
| Assay (dried basis)    | 99.95 - 100.05 % | 99.98 %         |
| Chlorine Compounds     | <= 0.003 %       | <0.003 %        |
| Heavy Metals (as Pb)   | <= 5 ppm         | <5 ppm          |
| Insoluble Matter       | <= 0.005 %       | 0.003 %         |
| Iron                   | <= 5 ppm         | <5 ppm          |
| pH (0.05M, Water) @25C | 4.00 - 4.02      | 4.00            |
| Sodium                 | <= 0.005 %       | <0.005 %        |
| Sulfur Compounds       | <= 0.002 %       | <0.002 %        |

Internal ID #: 322

| Signature                                                                                                                                                                                                                                                                                                 | Additional Information                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>We certify that this batch conforms to the specifications listed above.</p> <p>This document has been electronically produced and is valid without a signature.</p> <p>Leona Edwardson, Quality Control Sr. Manager - Solon<br/>VWR Chemicals, LLC.<br/>28600 Fountain Parkway, Solon OH 44139 USA</p> | <p>Analysis may have been rounded to significant digits in specification limits</p> <p>Product meets analytical specifications of the grades listed.</p> |

# Certificate of Analysis



|                      |                                |
|----------------------|--------------------------------|
| Material             | BDH9208-500G                   |
| Material Description | BDH AMMONIUM CHLORIDE ACS 500G |
| Grade                | U S P REAGENT (ACS GRADE)      |
| Batch                | 24L0356561                     |
| Reassay Date         | 08/31/2027                     |
| CAS Number           | 12125-02-9                     |
| Molecular Formula    | NH <sub>4</sub> Cl             |
| Molecular Mass       | 53.49                          |
| Date of Manufacture  | 08/01/2024                     |
| Storage              | Room Temperature               |

| Characteristics      | Specifications                                             | Measured Values       |
|----------------------|------------------------------------------------------------|-----------------------|
| Appearance           | White granular powder                                      | White granular powder |
| Calcium              | <= 0.001 %                                                 | 0.001 %               |
| Heavy Metals (as Pb) | <= 0.0005 %                                                | <0.0002 %             |
| Insolubles           | <= 0.005 %                                                 | 0.001 %               |
| Iron                 | <= 0.0002 %                                                | <0.0002 %             |
| Magnesium            | <= 0.0005 %                                                | 0.0001 %              |
| pH (5%, Water) @25C  | 4.5 - 5.5                                                  | 4.8                   |
| Phosphate            | <= 0.0002 %                                                | <0.0002 %             |
| Purity               | >= 99.5 %                                                  | 99.8 %                |
| Residue on Ignition  | <= 0.01 %                                                  | 0.003 %               |
| Sulfate              | <= 0.002 %                                                 | <0.002 %              |
| Extra Description:   | Meets Reagent Specifications for testing USP/NF monographs |                       |

Internal ID #: 710

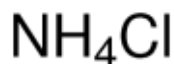
| Signature                                                                                                                                                                                                                                                                                                 | Additional Information                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>We certify that this batch conforms to the specifications listed above.</p> <p>This document has been electronically produced and is valid without a signature.</p> <p>Leona Edwardson, Quality Control Sr. Manager - Solon<br/>VWR Chemicals, LLC.<br/>28600 Fountain Parkway, Solon OH 44139 USA</p> | <p>Analysis may have been rounded to significant digits in specification limits</p> <p>Product meets analytical specifications of the grades listed.</p> |

W3196 Received on 03/19/2025 by IZ

## Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



**Product Number:** 213330  
**Batch Number:** MKCV1009  
**Brand:** SIGALD  
**CAS Number:** 12125-02-9  
**MDL Number:** MFCD00011420  
**Formula:** H4ClN  
**Formula Weight:** 53.49 g/mol  
**Quality Release Date:** 23 OCT 2023  
**Recommended Retest Date:** SEP 2026

| Test                           | Specification                  | Result    |
|--------------------------------|--------------------------------|-----------|
| Appearance (Color)             | White                          | White     |
| Appearance (Form)              | Powder or Crystals or Chunk(s) | Crystals  |
| Titration by AgNO <sub>3</sub> | ≥ 99.5 %                       | 100.2 %   |
| pH                             | 4.5 - 5.5                      | 4.9       |
| @ 25 Deg c (5% Solution)       |                                |           |
| Insoluble Matter               | ≤ 0.005 %                      | 0.001 %   |
| 10%, H <sub>2</sub> O          |                                |           |
| Residue on ignition (Ash)      | ≤ 0.01 %                       | < 0.01 %  |
| Calcium (Ca)                   | ≤ 0.001 %                      | < 0.001 % |
| Magnesium (Mg)                 | ≤ 5 ppm                        | 1 ppm     |
| Heavy Metals                   | ≤ 5 ppm                        | < 1 ppm   |
| by ICP                         |                                |           |
| Iron (Fe)                      | ≤ 2 ppm                        | < 1 ppm   |
| Phosphate (PO <sub>4</sub> )   | ≤ 2 ppm                        | < 2 ppm   |
| Sulfate (SO <sub>4</sub> )     | ≤ 0.002 %                      | < 0.002 % |
| Meets ACS Requirements         | Current ACS Specification      | Conforms  |
| Recommended Retest Period      | -----                          | -----     |
| 3 Years                        |                                |           |



Larry Coers, Director

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



## Certificate of Analysis

**Product Number:** 213330  
**Batch Number:** MKCV1009

---

Quality Control  
Milwaukee, WI US

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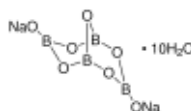
W3201 Received on 4/16/25 by IZ

## Certificate of Analysis

Product Name:

Sodium tetraborate decahydrate - ACS reagent, ≥99.5%

**Product Number:** S9640  
**Batch Number:** BCCL9613  
**Brand:** SIGALD  
**CAS Number:** 1303-96-4  
**Formula:** B<sub>4</sub>Na<sub>2</sub>O<sub>7</sub> · 10H<sub>2</sub>O  
**Formula Weight:** 381,37 g/mol  
**Quality Release Date:** 05 JUL 2024  
**Recommended Retest Date:** MAY 2029



| Test                              | Specification               | Result      |
|-----------------------------------|-----------------------------|-------------|
| Appearance (Color)                | White                       | White       |
| Appearance (Form)                 | Powder or Crystals          | Powder      |
| Titration with NaOH               | 99.5 - 105.0 %              | 100.7 %     |
| pH                                | 9.15 - 9.20                 | 9.20        |
| 0.01 m Solution at 25 Deg C       |                             |             |
| Meets ACS Requirements            | Corresponds to Requirements | Corresponds |
| ACS Specifications                | Corresponds to Requirements | Corresponds |
| Insoluble Matter ≤ 0.005% / Heavy |                             |             |
| Metals (As Pb) ≤ 0.001%           |                             |             |
| Calcium (Ca)                      | ≤ 50 mg/kg                  | < 50 mg/kg  |
| Iron (Fe)                         | ≤ 5 mg/kg                   | < 5 mg/kg   |
| Total Sulfur                      | ≤ 50 mg/kg                  | < 50 mg/kg  |
| as SO <sub>4</sub> (ICP)          |                             |             |
| Chloride (Cl)                     | ≤ 10 mg/kg                  | < 10 mg/kg  |
| Phosphate (PO <sub>4</sub> )      | ≤ 10 mg/kg                  | < 10 mg/kg  |

Dr. Reinhold Schwenninger  
Quality Assurance  
Buchs, Switzerland CH

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

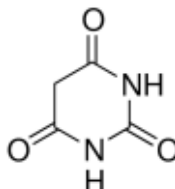


## Certificate of Analysis

Product Name:

Barbituric acid - ReagentPlus®, 99%

Product Number: 185698  
Batch Number: WXBFB3271V  
Brand: SIAL  
CAS Number: 67-52-7  
Formula: C<sub>4</sub>H<sub>4</sub>N<sub>2</sub>O<sub>3</sub>  
Formula Weight: 128.09 g/mol  
Quality Release Date: 16 MAY 2024



| Test                       | Specification         | Result   |
|----------------------------|-----------------------|----------|
| Appearance (Colour)        | White to Off-White    | White    |
| Appearance (Form)          | Powder                | Powder   |
| Infrared spectrum          | Conforms to Structure | Conforms |
| Purity (Titration by NaOH) | 98.5 - 101.5 %        | 100.4 %  |
| GC (area %)                | ≥ 98 %                | 100 %    |
| VPCT                       |                       |          |



Kang Chen  
Quality Manager  
Wuxi, China CN

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# Certificate Of Analysis



Date of Release: 4/8/2025

Name: **Potassium Hydrogen Phthalate**

ACS

Item No: **PX1476 All Sizes**

Lot / Batch No: **2025040493**

Country of Origin: **USA**

| Item                           | Specifications | Analysis    |
|--------------------------------|----------------|-------------|
| Assay (Dried Basis)            | 99.95-100.05%  | 99.98%      |
| Chlorine compounds (as Cl)     | 0.003% max.    | <0.003%     |
| Color                          | White          | Passes Test |
| Form                           | Crystals       | Passes Test |
| Heavy metals (by ICP-OES)      | 5 ppm max.     | <5 ppm      |
| Insoluble Matter               | 0.005% max.    | <0.005%     |
| Iron (Fe)                      | 5 ppm max.     | <5 ppm      |
| pH of a 0.05m solution @ 25.0C | 4.00-4.02      | 4.00        |
| Sodium (Na)                    | 0.005% max.    | <0.005%     |
| Sulfur compounds (as S)        | 0.002% max.    | <0.002%     |

Joe Schoellkopf

-----  
Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

400 Summit Drive  
Burlington, MA 01803  
U.S.A.

Form number: 00005624CA, Rev. 2.0

# Certificate of Analysis

## Sodium Hypochlorite Solution, 5% available Chlorine

**Lot Number:** 2506M51**Product Number:** 7495.5**Manufacture Date:** JUN 18, 2025**Expiration Date:** DEC 2025

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability.  
When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

| Name                | CAS#      | Grade      |
|---------------------|-----------|------------|
| Water               | 7732-18-5 | Commercial |
| Sodium Hypochlorite | 7681-52-9 | Commercial |

| Test                                  | Specification                       | Result                       | NIST SRM# |
|---------------------------------------|-------------------------------------|------------------------------|-----------|
| Appearance                            | Colorless to greenish-yellow liquid | Passed                       |           |
| Assay (vs. Sodium Thiosulfate/Starch) | 4.75-5.25 % (w/w) Cl <sub>2</sub>   | 5.17 % (w/w) Cl <sub>2</sub> | 136       |

| Specification           | Reference         |
|-------------------------|-------------------|
| Sodium Hypochlorite, 5% | APHA (4500-NH3 F) |
| Sodium Hypochlorite     | ASTM (D 4785)     |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 7495.5-1    | 4 L black poly      | 6 months                        |
| 7495.5-16   | 500 mL amber poly   | 6 months                        |
| 7495.5-32   | 1 L amber poly      | 6 months                        |

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

Jose Pena (06/18/2025)  
Operations Manager

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Part of TCP Analytical Group

Jackson's Pointe Commerce Park- Building 1000  
1010 Jackson's Pointe Court, Zelienople, PA 16063

## Certificate of Analysis

### Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: June 25, 2025

Lot Number: **45060288**

Expiration Date: December 24, 2025

| Test                  | Specification      | Result         |
|-----------------------|--------------------|----------------|
| Appearance (clarity)  | clear solution     | clear solution |
| Appearance (color)    | colorless          | colorless      |
| Concentration (CN)    | 0.990 - 1.010mg/mL | 1.000mg/mL     |
| Concentration (CN)    | 990 - 1,010ppm     | 1,000ppm       |
| Traceable to NIST SRM | Report             | 999b           |

**Intended Use** - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

**Storage Information** - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

**Instructions for Handling and Use** - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

**Preparation** - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST

\*The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit [LabChem.com](http://LabChem.com) for more information\*

| Suffix | 1         | 2         | 3/3S/36/36S                           | 4/4C | 5   | 6   | 7     | 8   | 9    | 20      | 44   | 200  | 246    | 486    |
|--------|-----------|-----------|---------------------------------------|------|-----|-----|-------|-----|------|---------|------|------|--------|--------|
| Size   | 500mL org | 1L or 1kg | 2.5L/2.5L Coated/6x2.5L/6x2.5L Coated | 4L   | 20L | 10L | 125mL | 25g | 100g | 20x20mL | 4x4L | 200L | 24x6mL | 48x6mL |

*Michael Monteleone*

Michael Monteleone  
Chemistry Supervisor - Quality Control  
20250703 15:30:45ahoffman-0-0

ISO9001:2015 Registration #0306-01

n-Hexane 95%  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis

 **avantors<sup>TM</sup>**



W3240  
JP  
Op4tel. 07/15/2025

Material No.: 9262-03  
Batch No.: 25C0362006  
Manufactured Date: 2025-01-29  
Expiration Date: 2026-04-30  
Revision No.: 0

## Certificate of Analysis

| Test                                                                           | Specification  | Result      |
|--------------------------------------------------------------------------------|----------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)           | $\leq 5$       | 1           |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)            | $\leq 10$      | 6           |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | $\leq 5$       | 4           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)    | $\geq 99.5 \%$ | 100.0 %     |
| Assay (as n-Hexane) (by GC, corrected for water)                               | $\geq 95 \%$   | 100 %       |
| Color (APHA)                                                                   | $\leq 10$      | 10          |
| Residue after Evaporation                                                      | $\leq 1.0$ ppm | 0.2 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                          | Passes Test    | Passes Test |
| Water (by KF, coulometric)                                                     | $\leq 0.05 \%$ | $< 0.01 \%$ |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

# Certificate of Analysis

## Sodium Thiosulfate, 0.0250 Normal (N/40)

**Lot Number:** 250904J

**Product Number:** 7900

**Manufacture Date:** SEP 03, 2025

**Expiration Date:** FEB 2027

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

| Name                            | CAS#        | Grade           |
|---------------------------------|-------------|-----------------|
| Water                           | 7732-18-5   | ACS/ASTM/USP/EP |
| Organic Preservative            | Proprietary |                 |
| Sodium Carbonate                | 497-19-8    | ACS             |
| Sodium Thiosulfate Pentahydrate | 10102-17-7  | ACS             |

| Test                                | Specification             | Result            | NIST SRM# |
|-------------------------------------|---------------------------|-------------------|-----------|
| Appearance                          | Colorless liquid          | Passed            |           |
| Assay (vs. Potassium Iodate/Starch) | 0.02499-0.02501 N at 20°C | 0.02501 N at 20°C | 136       |

| Specification                                  | Reference           |
|------------------------------------------------|---------------------|
| Standard Sodium Thiosulfate Solution, 0.0250 N | APHA (4500-S2- F)   |
| Standard Sodium Thiosulfate Titrant            | APHA (4500-O D)     |
| Standard Sodium Thiosulfate Titrant            | APHA (4500-O E)     |
| Standard Sodium Thiosulfate Titrant            | APHA (4500-O F)     |
| Standard Sodium Thiosulfate Titrant, 0.025 N   | APHA (4500-CI B)    |
| Standard Sodium Thiosulfate Titrant            | APHA (4500-O C)     |
| Standard Sodium Thiosulfate Titrant, 0.025 M   | APHA (5530 C)       |
| Standard Sodium Thiosulfate Solution (0.025 N) | EPA (SW-846) (9031) |
| Standard Sodium Thiosulfate solution (0.025 N) | EPA (SW-846) (9034) |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

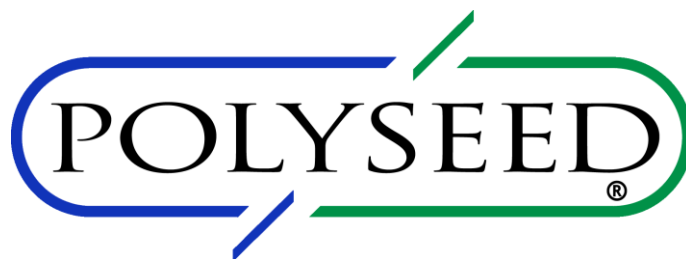
| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 7900-1      | 4 L natural poly    | 18 months                       |
| 7900-16     | 500 mL natural poly | 18 months                       |
| 7900-32     | 1 L natural poly    | 18 months                       |

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Jose Pena (09/03/2025)  
Operations Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



## CERTIFICATE OF ANALYSIS

PO BOX 130549 Spring, TX 77393  
Phone: (281) 298-9410 Fax: (281) 298-9411

**FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE:**

PolySeed® • Part No. P-110 • Lot 072505 • Mfg. Date: 05/2025 • Exp. Date: 05/2027

**FORMULATION:**

The formulation for this product contains a range of naturally occurring microorganisms, which are known to be non-pathogenic to man or animals.

**VIABLE COUNT, FINAL TEST RESULT:**

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of  $4.00 \times 10^9$  cfu/g.

**GLUCOSE/GLUTAMIC-ACID RESULTS:**

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# 43100020 – Average Test Result: 203

See [www.polyseed.com](http://www.polyseed.com) for details.

**SEED CONTROL FACTOR:**

Tested results within acceptable range 0.6 – 1.0 see [www.polyseed.com](http://www.polyseed.com) for details

**SALMONELLA TEST RESULT:**

The product has been shown to be Salmonella negative using procedures recommended in the Microbiology Laboratory Guidebook, published by the USDA Food Safety and Inspection Service.

The purpose of this document is to ensure that the Finished Product conforms to the above specifications.

Signature: \_\_\_\_\_

*Quality Control Department*

Date: 05/07/2025

POLYSEED.Ref.1.19

Revised Jan 25



An ISO 9001 Certified Company

P.O. Box 389  
Loveland, CO 80539  
(970) 669-3050

## ***Certificate of Analysis***

***This is a Component of 1486266 / LOT A5219***

**PRODUCT:** BOD Nutrient Buffer Pillows

**PRODUCT NUMBER:** 1486227

**LOT NUMBER:** A5219

**MANUFACTURE DATE:** 08/26/2025

**DATE OF ANALYSIS:** 09/15/2025

---

| TEST                                              | SPECIFICATIONS   | RESULTS |
|---------------------------------------------------|------------------|---------|
| Ammonia Concentration of a diluted pillow         | 0.57 to 0.79 ppm | 0.581   |
| Calcium Concentration of a diluted pillow         | 0.93 to 1.29 ppm | 1.050   |
| Iron Concentration of a diluted pillow            | 0.27 to 0.36 ppm | 0.323   |
| Magnesium Concentration of a diluted pillow       | 0.35 to 0.48 ppm | 0.400   |
| Phosphorus Concentration of a diluted pillow      | 7.6 to 10.3 ppm  | 8.85    |
| pH in a 6 L of DI water                           | 7.1 to 7.6 ph    | 7.20    |
| Five Day Change in Dissolved Oxygen Concentration | -0.2 to 0.2 ppm  | 0.15    |
| Sterility                                         | To Pass          | Passed  |

The expiration date is Aug 2030

Certified by: *Scott Als*

Analytical Service Chemist



## SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE

**Material:** 0823-2.5KG  
**Grade:** ACS GRADE  
**Batch Number:** 25E0756587

|                   |                                                    |                   |                  |
|-------------------|----------------------------------------------------|-------------------|------------------|
| Chemical Formula: | NaH <sub>2</sub> PO <sub>4</sub> .H <sub>2</sub> O | Manufacture Date: | 07-10-2024       |
| Molecular Weight: | 137.99                                             | Reassay Date:     | 07-10-2028       |
| CAS#:             | 10049-21-5                                         |                   |                  |
| Appearance:       | White crystalline powder                           | Storage:          | Room Temperature |

| TEST                | SPECIFICATION | ANALYSIS | DISPOSITION |
|---------------------|---------------|----------|-------------|
| Calcium             | <=0.005 %     | <0.001 % | PASS        |
| Chloride            | <=0.0005 %    | 0.0003 % | PASS        |
| Heavy metals        | <=0.001 %     | <0.001 % | PASS        |
| Insolubles          | <=0.01 %      | <0.01 %  | PASS        |
| Iron                | <=0.001 %     | <0.000 % | PASS        |
| pH (5%, Water) @25C | 4.1-4.5       | 4.3      | PASS        |
| Potassium           | <=0.01 %      | <0.01 %  | PASS        |
| Purity              | 98.0-102.0 %  | 99.0 %   | PASS        |
| Sulfate             | <=0.003 %     | <0.003 % | PASS        |

Spec Set: 0823-2.5KGACS

### Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature

Leona Edwardson, Quality Control Sr. Manager - Solon  
 VWR Chemicals, LLC.  
 28600 Fountain Parkway, Solon OH 44139 USA

### Additional information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

# Certificate of Analysis

## Cyanide Standard, 1000 ppm CN<sup>-</sup>

**Lot Number:** 15100125

**Product Number:** 2543

**Manufacture Date:** OCT 06, 2025

**Expiration Date:** MAR 2026

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

| Name              | CAS#      | Grade              |
|-------------------|-----------|--------------------|
| Water             | 7732-18-5 | ACS/ASTM/USP/EP    |
| Sodium Hydroxide  | 1310-73-2 | Reagent (from ACS) |
| Potassium Cyanide | 151-50-8  | ACS                |

| Test                       | Specification    | Result   |
|----------------------------|------------------|----------|
| Appearance                 | Colorless liquid | Passed   |
| Cyanide (CN <sup>-</sup> ) | 995-1005 ppm     | 1000 ppm |

| Specification                                                    | Reference              |
|------------------------------------------------------------------|------------------------|
| Stock Standard Cyanide Solution                                  | APHA (4500-CN- F)      |
| Stock Cyanide Solution                                           | APHA (4500-CN- E)      |
| Stock Cyanide Solution                                           | APHA (4500-CN- K)      |
| Stock Cyanide Solution                                           | APHA (4500-CN- H)      |
| Cyanide Reference Solution (1000 mg/L)                           | EPA (SW-846) (7.3.3.2) |
| Cyanide Calibration Stock Solution (1,000 mg/L CN <sup>-</sup> ) | EPA (SW-846) (9213)    |
| Stock Cyanide Solution                                           | EPA (335.3)            |
| Stock Cyanide Solution                                           | EPA (335.2)            |
| Cyanide Solution Stock                                           | ASTM (D 4282)          |
| Simple Cyanide Solution, Stock (1.0 g/L CN <sup>-</sup> )        | ASTM (D 4374)          |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 2543-4      | 120 mL amber poly   | 6 months                        |

**Recommended Storage:** 2°C - 8°C (36°F - 46°F)



Ernest Mahan (10/06/2025)  
Plant Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

W 3259

W 3260

W 3261

Received on 11/25/25 by 12



2345A Charleston Regional  
Charleston, South Carolina 29492  
environmentalexpress.com  
+1 843.881.6560

May 1, 2025

#### CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable, quality results.

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20<sup>th</sup>, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

| <u>Cat. No.</u> | <u>Lot No.</u> | <u>Product Description</u>        | <u>Expiration Date</u> |
|-----------------|----------------|-----------------------------------|------------------------|
| B1010           | 5GE0004        | COD Reagent Vials,<br>0 - 150 ppm | May-30                 |



# SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: VERINA CONSULTING GROUP  
ADDRESS: 1011 US HIGHWAY 22, SUITE 302  
CITY BRIDGEWATER STATE: NJ ZIP: 08807  
ATTENTION: MICHAEL VALENZI  
PHONE: 908-864-4400 FAX: 908-864-4401

PROJECT NAME: ROTOR CLIP  
PROJECT NO.: 5183-0001 LOCATION: NJ  
PROJECT MANAGER: MICHAEL VALENZI  
e-mail: MVALENZIE VCG-LLC.COM  
PHONE: 908-864-4400 FAX: 908-864-4401

BILL TO: SEE LEFT PO#:  
ADDRESS:  
CITY STATE: ZIP:  
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS\*  
HARDCOPY (DATA PACKAGE): 5 DAYS\*  
EDD: 5 DAYS\*

\*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP  
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other  
☐ EDD FORMAT

1. 20.Cu.Ni.Cr.Cd.  
2. TSS  
3. BOD  
4. COD  
5. CHLORINE DEMAND  
6. AMMONIA  
7. OIL & GREASE  
8. TOTAL CHLORINE  
9.

PRESERVATIVES

COMMENTS

| ALLIANCE<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |          | SAMPLE<br>COLLECTION |              | # OF BOTTLES | PRESERVATIVES |          |          |          |          |          |   |          |          | COMMENTS |  |
|--------------------------|----------------------------------|------------------|----------------|----------|----------------------|--------------|--------------|---------------|----------|----------|----------|----------|----------|---|----------|----------|----------|--|
|                          |                                  |                  | COMP           | GRAB     | DATE                 | TIME         |              | B             | E        | E        | C        | E        | C        | C | D        |          |          |  |
| 1.                       | <u>WATER TREATMENT DISCHARGE</u> | <u>WW</u>        |                | <u>X</u> | <u>12/14/25</u>      | <u>11:00</u> | <u>4</u>     |               |          |          |          |          |          |   | <u>X</u> | <u>X</u> |          |  |
| 2.                       | <u>WATER TREATMENT DISCHARGE</u> | <u>WW</u>        | <u>X</u>       |          | <u>12/14/25</u>      | <u>11:05</u> | <u>6</u>     | <u>X</u>      | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> |   |          |          |          |  |
| 3.                       |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |
| 4.                       |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |
| 5.                       |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |
| 6.                       |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |
| 7.                       |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |
| 8.                       |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |
| 9.                       |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |
| 10.                      |                                  |                  |                |          |                      |              |              |               |          |          |          |          |          |   |          |          |          |  |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                                   |                                     |                                    |                                                                                                                                                                           |
|---------------------------------------------------|-------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER:<br>1. <u>MVA</u>         | DATE/TIME:<br><u>12/14/25 11:05</u> | RECEIVED BY:<br><u>[Signature]</u> | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP <u>3.6</u> °C |
| RELINQUISHED BY SAMPLER:<br>2.                    | DATE/TIME: <u>-</u>                 | RECEIVED BY:<br><u>[Signature]</u> | Comments: <u>PH = 9.2</u><br><u>FLOW RATE = 45</u><br><u>TEMPERATURE = 58.5</u>                                                                                           |
| RELINQUISHED BY SAMPLER:<br>3. <u>[Signature]</u> | DATE/TIME: <u>12-14-25</u>          | RECEIVED BY:<br><u>[Signature]</u> | <u>METALS GROUP 5 = 20, Cu, Ni, Cr, Cd, Pb, Ag</u>                                                                                                                        |

Page 1 of 1 CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |