

## 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> Q3227             | <b>OrderDate:</b> 9/26/2025 12:09:00 PM             |
| <b>Client:</b> ATG-GREENVILLE AEC | <b>Project:</b> AEC-2025-0013- CSC 4026 Easthampton |
| <b>Contact:</b> Staci Bruce       | <b>Location:</b> J22                                |

| LabID    | ClientID    | Matrix | Test | Method   | Sample Date       | Prep Date | Anal Date         | Received |
|----------|-------------|--------|------|----------|-------------------|-----------|-------------------|----------|
| Q3227-01 | Outfall 001 | Water  |      |          | 09/25/25<br>13:10 |           |                   | 09/26/25 |
|          |             |        | COD  | SM5220 D |                   |           | 10/03/25<br>14:21 |          |
|          |             |        | TSS  | SM2540 D |                   |           | 09/30/25<br>10:00 |          |



# SAMPLE DATA

## Report of Analysis

|                   |                                     |                 |                |
|-------------------|-------------------------------------|-----------------|----------------|
| Client:           | ATG-GREENVILLE AEC                  | Date Collected: | 09/25/25 13:10 |
| Project:          | AEC-2025-0013- CSC 4026 Easthampton | Date Received:  | 09/26/25       |
| Client Sample ID: | Outfall 001                         | SDG No.:        | Q3227          |
| Lab Sample ID:    | Q3227-01                            | Matrix:         | Water          |
|                   |                                     | % Solid:        | 0              |

| Parameter | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Prep Date | Date Ana.      | Ana Met.     |
|-----------|-------|------|----|------|------------|-------|-----------|----------------|--------------|
| COD       | 41.1  |      | 1  | 1.50 | 10.0       | mg/L  |           | 10/03/25 14:21 | SM 5220 D-11 |
| TSS       | 85.4  |      | 1  | 1.00 | 4.00       | mg/L  |           | 09/30/25 10:00 | 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

### Initial and Continuing Calibration Verification

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3227

**Project:** AEC-2025-0013- CSC 4026 Easthampton

**RunNo.:** LB137422

| Analyte           |      | Units | Result | True Value | %<br>Recovery | Acceptance<br>Window (%R) | Analysis<br>Date |
|-------------------|------|-------|--------|------------|---------------|---------------------------|------------------|
| Sample ID:<br>COD | ICV  | mg/L  | 50.173 | 50         | 100           | 95-105                    | 09/08/2025       |
| Sample ID:<br>COD | CCV1 | mg/L  | 49.161 | 50         | 98            | 95-105                    | 10/03/2025       |
| Sample ID:<br>COD | CCV2 | mg/L  | 48.150 | 50         | 96            | 95-105                    | 10/03/2025       |
| Sample ID:<br>COD | CCV3 | mg/L  | 50.173 | 50         | 100           | 95-105                    | 10/03/2025       |

### Initial and Continuing Calibration Blank Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3227

**Project:** AEC-2025-0013- CSC 4026 Easthampton

**RunNo.:** LB137422

| Analyte    |             | Units | Result   | Acceptance<br>Limits | Conc<br>Qual | MDL  | RDL | Analysis<br>Date |
|------------|-------------|-------|----------|----------------------|--------------|------|-----|------------------|
| Sample ID: | <b>ICB</b>  |       |          |                      |              |      |     |                  |
| COD        |             | mg/L  | < 5.0000 | 5.0000               | U            | 1.50 | 10  | 09/08/2025       |
| Sample ID: | <b>CCB1</b> |       |          |                      |              |      |     |                  |
| COD        |             | mg/L  | < 5.0000 | 5.0000               | U            | 1.50 | 10  | 10/03/2025       |
| Sample ID: | <b>CCB2</b> |       |          |                      |              |      |     |                  |
| COD        |             | mg/L  | < 5.0000 | 5.0000               | U            | 1.50 | 10  | 10/03/2025       |
| Sample ID: | <b>CCB3</b> |       |          |                      |              |      |     |                  |
| COD        |             | mg/L  | < 5.0000 | 5.0000               | U            | 1.50 | 10  | 10/03/2025       |

## Preparation Blank Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3227

**Project:** AEC-2025-0013- CSC 4026 Easthampton

| Analyte                      | Units | Result   | Acceptance<br>Limits | Conc<br>Qual | MDL | RDL  | Analysis<br>Date |
|------------------------------|-------|----------|----------------------|--------------|-----|------|------------------|
| Sample ID: <b>LB137356BL</b> |       |          |                      |              |     |      |                  |
| TSS                          | mg/L  | 1        | 2.0000               | J            | 1   | 4    | 09/30/2025       |
| Sample ID: <b>LB137422BL</b> |       |          |                      |              |     |      |                  |
| COD                          | mg/L  | < 5.0000 | 5.0000               | U            | 1.5 | 10.0 | 10/03/2025       |

### Matrix Spike Summary

|                   |                                     |                                         |          |
|-------------------|-------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC                  | <b>SDG No.:</b>                         | Q3227    |
| <b>Project:</b>   | AEC-2025-0013- CSC 4026 Easthampton | <b>Sample ID:</b>                       | Q3263-02 |
| <b>Client ID:</b> | 266380MS                            | <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       |      | 10/03/2025       |

## Matrix Spike Summary

|                   |                                     |                                         |          |
|-------------------|-------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC                  | <b>SDG No.:</b>                         | Q3227    |
| <b>Project:</b>   | AEC-2025-0013- CSC 4026 Easthampton | <b>Sample ID:</b>                       | Q3263-02 |
| <b>Client ID:</b> | 266380MSD                           | <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       |      | 10/03/2025       |

### Duplicate Sample Summary

|                   |                                     |                                         |          |
|-------------------|-------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC                  | <b>SDG No.:</b>                         | Q3227    |
| <b>Project:</b>   | AEC-2025-0013- CSC 4026 Easthampton | <b>Sample ID:</b>                       | Q3202-11 |
| <b>Client ID:</b> | SY-3DDUP                            | <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                | 42.0             |                    | 42.2                |                    | 1                  | 0.48       |      | 09/30/2025       |

### Duplicate Sample Summary

|                   |                                     |                                         |          |
|-------------------|-------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC                  | <b>SDG No.:</b>                         | Q3227    |
| <b>Project:</b>   | AEC-2025-0013- CSC 4026 Easthampton | <b>Sample ID:</b>                       | Q3263-02 |
| <b>Client ID:</b> | 266380DUP                           | <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 |
|---------|-------|------------------|---------------|-----------------|------------------|-----------------|-----------------|---------|------|---------------|
| COD     | mg/L  | +/-20            | 1.50          | U               | 1.50             | U               | 1               | 0       |      | 10/03/2025    |

### Duplicate Sample Summary

|                   |                                     |                                         |          |
|-------------------|-------------------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC                  | <b>SDG No.:</b>                         | Q3227    |
| <b>Project:</b>   | AEC-2025-0013- CSC 4026 Easthampton | <b>Sample ID:</b>                       | Q3263-02 |
| <b>Client ID:</b> | 266380MSD                           | <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 |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| COD     | mg/L  | +/-20               | 48.2             |                    | 47.1                |                    | 1                  | 2.31       |      | 10/03/2025       |

### Laboratory Control Sample Summary

|                 |                                     |                 |          |
|-----------------|-------------------------------------|-----------------|----------|
| <b>Client:</b>  | ATG-GREENVILLE AEC                  | <b>SDG No.:</b> | Q3227    |
| <b>Project:</b> | AEC-2025-0013- CSC 4026 Easthampton | <b>Run No.:</b> | LB137356 |

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB137356BS |            |        |                 |            |                 |                     |               |
| TSS       | mg/L       | 550        | 532    |                 | 97         | 1               | 90-110              | 09/30/2025    |

### Laboratory Control Sample Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3227

**Project:** AEC-2025-0013- CSC 4026 Easthampton

**Run No.:** LB137422

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB137422BS |            |        |                 |            |                 |                     |               |
| COD       | mg/L       | 50         | 51.2   |                 | 102        | 1               | 90-110              | 10/03/2025    |



# RAW DATA

**TOTAL SUSPENDED SOLIDS - SM2540D**

**SUPERVISOR:** Iwona

**ANALYST:** JIGNESH

**Date:** 09/29/2025

**Run Number:** LB137356

**BalanceID:** WC SC-5

**OvenID:** WC OVEN-1

**FilterID:** 17416528

**ThermometerID:** WET OVEN#1

**TEMP1 IN:** 104 °C 09/29/2025 14:30 **TEMP1 OUT:** 103 °C 09/29/2025 15:30  
**TEMP2 IN:** 104 °C 09/29/2025 16:00 **TEMP2 OUT:** 104 °C 09/29/2025 17:00  
**TEMP3 IN:** 103 °C 09/30/2025 10:00 **TEMP3 OUT:** 103 °C 09/30/2025 11:40  
**TEMP4 IN:** 104 °C 09/30/2025 12:30 **TEMP4 OUT:** 103 °C 09/30/2025 14:00

| 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      | LB137356BL  | LB137356BL  | 1.4563                | 1.4563                      | 100                | 1.4564                                                          | 1.4564                                                          | 1.4564                                                            | 0.0001     | 1           |
| 2      | LB137356BS  | LB137356BS  | 1.4874                | 1.4874                      | 100                | 1.5406                                                          | 1.5406                                                          | 1.5406                                                            | 0.0532     | 532         |
| 3      | Q3202-01    | SY-6        | 1.4903                | 1.4904                      | 2000               | 1.5176                                                          | 1.5176                                                          | 1.5176                                                            | 0.0272     | 13.6        |
| 4      | Q3202-03    | SY-2R       | 1.4906                | 1.4907                      | 2000               | 1.4949                                                          | 1.4949                                                          | 1.4949                                                            | 0.0042     | 2.1         |
| 5      | Q3202-05    | SY-2D       | 1.4782                | 1.4782                      | 1000               | 1.5332                                                          | 1.5332                                                          | 1.5332                                                            | 0.0550     | 55          |
| 6      | Q3202-07    | SY-5        | 1.5019                | 1.5019                      | 1000               | 1.5608                                                          | 1.5608                                                          | 1.5608                                                            | 0.0589     | 58.9        |
| 7      | Q3202-09    | SY-3DD      | 1.4772                | 1.4772                      | 1000               | 1.4798                                                          | 1.4798                                                          | 1.4798                                                            | 0.0026     | 2.6         |
| 8      | Q3202-11    | SY-3D       | 1.4676                | 1.4677                      | 1000               | 1.5097                                                          | 1.5097                                                          | 1.5097                                                            | 0.0420     | 42          |
| 9      | Q3202-11DUP | SY-3DDUP    | 1.4000                | 1.4000                      | 1000               | 1.4422                                                          | 1.4422                                                          | 1.4422                                                            | 0.0422     | 42.2        |
| 10     | Q3202-17    | SY-3        | 1.3697                | 1.3698                      | 20                 | 2.3650                                                          | 2.3650                                                          | 2.3650                                                            | 0.9952     | 49760       |
| 11     | Q3219-01    | Outfall 001 | 1.4971                | 1.4971                      | 1000               | 1.5105                                                          | 1.5105                                                          | 1.5105                                                            | 0.0134     | 13.4        |
| 12     | Q3219-02    | Outfall 002 | 1.4269                | 1.4269                      | 1000               | 1.4334                                                          | 1.4334                                                          | 1.4334                                                            | 0.0065     | 6.5         |
| 13     | Q3219-03    | Outfall 003 | 1.3926                | 1.3926                      | 1000               | 1.4224                                                          | 1.4224                                                          | 1.4224                                                            | 0.0298     | 29.8        |
| 14     | Q3227-01    | Outfall 001 | 1.3916                | 1.3916                      | 500                | 1.4343                                                          | 1.4343                                                          | 1.4343                                                            | 0.0427     | 85.4        |
| 15     | Q3234-01    | DA-1        | 1.3970                | 1.3970                      | 500                | 1.7252                                                          | 1.7252                                                          | 1.7252                                                            | 0.3282     | 656.4       |

# TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: JIGNESH

Date: 09/29/2025

Run Number: LB137356

BalanceID: WC SC-5

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 09/29/2025 14:30 TEMP1 OUT: 103 °C 09/29/2025 15:30  
 TEMP2 IN: 104 °C 09/29/2025 16:00 TEMP2 OUT: 104 °C 09/29/2025 17:00  
 TEMP3 IN: 103 °C 09/30/2025 10:00 TEMP3 OUT: 103 °C 09/30/2025 11:40  
 TEMP4 IN: 104 °C 09/30/2025 12:30 TEMP4 OUT: 103 °C 09/30/2025 14:00

| 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 |
|--------|----------|--------------------|-----------------------|-----------------------------|--------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|------------|-------------|
| 16     | Q3234-02 | DA-2               | 1.4677                | 1.4677                      | 600                | 1.5919                                                          | 1.5919                                                          | 1.5919                                                            | 0.1242     | 207         |
| 17     | Q3237-01 | RW8-SP100-20250926 | 1.4998                | 1.4998                      | 1900               | 1.5008                                                          | 1.5008                                                          | 1.5008                                                            | 0.0010     | 0.5         |
| 18     | Q3237-02 | RW8-SP303-20250926 | 1.4894                | 1.4894                      | 1900               | 1.4899                                                          | 1.4899                                                          | 1.4899                                                            | 0.0005     | 0.3         |

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)

WB 13 7356

WorkList Name : tss q3202      WorkList ID : 192158      Department : Wet-Chemistry      Date : 09-30-2025 06:03:26

| Sample   | Customer Sample        | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|------------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3202-01 | SY-6 K.L               | Water  | TSS  | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM2540 D |
| Q3202-03 | SY-2R K.L              | Water  | TSS  | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM2540 D |
| Q3202-05 | SY-2D K                | Water  | TSS  | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM2540 D |
| Q3202-07 | SY-5 K                 | Water  | TSS  | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM2540 D |
| Q3202-09 | SY-3DD K.L             | Water  | TSS  | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM2540 D |
| Q3202-11 | SY-3D K.L              | Water  | TSS  | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM2540 D |
| Q3202-17 | SY-3 K                 | Water  | TSS  | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM2540 D |
| Q3219-01 | Outfall 001 B          | Water  | TSS  | Cool 4 deg C | ATGG01   | J32                         | 09/25/2025   | SM2540 D |
| Q3219-02 | Outfall 002 B          | Water  | TSS  | Cool 4 deg C | ATGG01   | J32                         | 09/25/2025   | SM2540 D |
| Q3219-03 | Outfall 003 B          | Water  | TSS  | Cool 4 deg C | ATGG01   | J32                         | 09/25/2025   | SM2540 D |
| Q3227-01 | Outfall 001 B          | Water  | TSS  | Cool 4 deg C | ATGG01   | J22                         | 09/25/2025   | SM2540 D |
| Q3234-01 | DA-1 B                 | Water  | TSS  | Cool 4 deg C | ATGG01   | D31                         | 09/29/2025   | SM2540 D |
| Q3234-02 | DA-2 B                 | Water  | TSS  | Cool 4 deg C | ATGG01   | D31                         | 09/29/2025   | SM2540 D |
| Q3237-01 | RW8-SP100-20250926 B,C | Water  | TSS  | Cool 4 deg C | TETR06   | D31                         | 09/26/2025   | SM2540 D |
| Q3237-02 | RW8-SP303-20250926 B,C | Water  | TSS  | Cool 4 deg C | TETR06   | D31                         | 09/26/2025   | SM2540 D |

Date/Time 09/30/25 06:25  
 Raw Sample Received by: [Signature]  
 Raw Sample Relinquished by: [Signature]

Date/Time 09/30/25 15:00  
 Raw Sample Received by: [Signature]  
 Raw Sample Relinquished by: [Signature]

## Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137422

| 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                      | WP114941  |
| COD ICV-LCS std, 50ppm                  | WP114942  |
| RL CHECK                                | WP114943  |
| COD Digestion Vials Low Level 0-150Mg/L | W3230     |

|                   |                      |                 |
|-------------------|----------------------|-----------------|
| Temp In (C): 148  | Date In: 10/03/2025  | Time In: 10:55  |
| Temp Out (C): 150 | Date Out: 10/03/2025 | Time Out: 12:55 |

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: jignesh

Run Number: LB137422

| 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  | 49.000  | 49.161 | 10/03/2025 | 14:15    |
| 4   | CCB1        |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613  | 10/03/2025 | 14:15    |
| 5   | RL Check    | 10                | NA                 | NA             | 1  | Water  | 7.000   | 6.681  | 10/03/2025 | 14:16    |
| 6   | LB137422BL  |                   | NA                 | NA             | 1  | Water  | 0.000   | -0.399 | 10/03/2025 | 14:16    |
| 7   | LB137422BS  | 50                | NA                 | NA             | 1  | Water  | 51.000  | 51.184 | 10/03/2025 | 14:17    |
| 8   | Q3217-01    |                   | NA                 | NA             | 5  | Water  | 36.000  | 36.013 | 10/03/2025 | 14:17    |
| 9   | Q3218-01    |                   | NA                 | NA             | 10 | Water  | 26.000  | 25.898 | 10/03/2025 | 14:18    |
| 10  | Q3218-02    |                   | NA                 | NA             | 1  | Water  | 69.000  | 69.390 | 10/03/2025 | 14:18    |
| 11  | Q3218-03    |                   | NA                 | NA             | 5  | Water  | 37.000  | 37.024 | 10/03/2025 | 14:19    |
| 12  | Q3219-01    |                   | NA                 | NA             | 1  | Water  | 30.000  | 29.944 | 10/03/2025 | 14:19    |
| 13  | Q3219-02    |                   | NA                 | NA             | 1  | Water  | 20.000  | 19.830 | 10/03/2025 | 14:20    |
| 14  | Q3219-03    |                   | NA                 | NA             | 1  | Water  | 19.000  | 18.818 | 10/03/2025 | 14:21    |
| 15  | Q3227-01    |                   | NA                 | NA             | 1  | Water  | 41.000  | 41.070 | 10/03/2025 | 14:21    |
| 16  | CCV2        | 50                | NA                 | NA             | 1  | Water  | 48.000  | 48.150 | 10/03/2025 | 14:22    |
| 17  | CCB2        |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613  | 10/03/2025 | 14:22    |
| 18  | Q3263-01    |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613  | 10/03/2025 | 14:23    |
| 19  | Q3263-02    |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613  | 10/03/2025 | 14:23    |
| 20  | Q3263-02DUP |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613  | 10/03/2025 | 14:24    |
| 21  | Q3263-02MS  | 50                | NA                 | NA             | 1  | Water  | 48.000  | 48.150 | 10/03/2025 | 14:24    |
| 22  | Q3263-02MSD | 50                | NA                 | NA             | 1  | Water  | 47.000  | 47.138 | 10/03/2025 | 14:25    |
| 23  | CCV3        | 50                | NA                 | NA             | 1  | Water  | 50.000  | 50.173 | 10/03/2025 | 14:25    |
| 24  | CCB3        |                   | NA                 | NA             | 1  | Water  | 1.000   | 0.613  | 10/03/2025 | 14:26    |

## WORKLIST(Hardcopy Internal Chain)

LB137422

WorkList Name : COD-100325

WorkList ID : 192281

Department : Wet-Chemistry

Date : 10-03-2025 09:59:13

| Sample   | Customer Sample | Matrix | Test | Preservative         | Customer | Raw Sample<br>Storage<br>Location | Collect Date | Method   |
|----------|-----------------|--------|------|----------------------|----------|-----------------------------------|--------------|----------|
| Q3217-01 | Outfall 1       | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J42                               | 09/25/2025   | SM5220 D |
| Q3218-01 | Outfall 1       | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J33                               | 09/25/2025   | SM5220 D |
| Q3218-02 | Outfall 2       | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J33                               | 09/25/2025   | SM5220 D |
| Q3218-03 | Outfall 3       | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J33                               | 09/25/2025   | SM5220 D |
| Q3219-01 | Outfall 001     | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J32                               | 09/25/2025   | SM5220 D |
| Q3219-02 | Outfall 002     | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J32                               | 09/25/2025   | SM5220 D |
| Q3219-03 | Outfall 003     | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J32                               | 09/25/2025   | SM5220 D |
| Q3227-01 | Outfall 001     | Water  | COD  | Conc H2SO4 to pH < 2 | ATGG01   | J22                               | 09/25/2025   | SM5220 D |
| Q3263-01 | 251818          | Water  | COD  | Conc H2SO4 to pH < 2 | PSEG03   | D31                               | 10/01/2025   | SM5220 D |
| Q3263-02 | 266380          | Water  | COD  | Conc H2SO4 to pH < 2 | PSEG03   | D31                               | 10/01/2025   | SM5220 D |

Date/Time

10/03/25 10:15

Raw Sample Received by:

12/20/25

Raw Sample Relinquished by:

206007

Date/Time

10/03/25 11:20

Raw Sample Received by:

206007

Raw Sample Relinquished by:

12/20/25

**Instrument ID:** WC SC-3

**Daily Analysis Runlog For Sequence/QC Batch ID # LB137356**

|                  |                  |              |                       |
|------------------|------------------|--------------|-----------------------|
| Review By        | JIGNESH          | Review On    | 10/1/2025 10:27:07 AM |
| Supervise By     | Iwona            | Supervise On | 10/1/2025 11:30:50 AM |
| SubDirectory     | LB137356         | 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   | LB137356BL  | LB137356BL        | MB     | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 2   | LB137356BS  | LB137356BS        | LCS    | 09/30/25 10:00 | 55 mg w3186+ 100ml w3112 | JIGNESH  | OK     |
| 3   | Q3202-01    | SY-6              | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 4   | Q3202-03    | SY-2R             | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 5   | Q3202-05    | SY-2D             | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 6   | Q3202-07    | SY-5              | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 7   | Q3202-09    | SY-3DD            | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 8   | Q3202-11    | SY-3D             | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 9   | Q3202-11DUP | SY-3DDUP          | DUP    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 10  | Q3202-17    | SY-3              | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 11  | Q3219-01    | Outfall 001       | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 12  | Q3219-02    | Outfall 002       | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 13  | Q3219-03    | Outfall 003       | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 14  | Q3227-01    | Outfall 001       | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 15  | Q3234-01    | DA-1              | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 16  | Q3234-02    | DA-2              | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 17  | Q3237-01    | RW8-SP100-2025092 | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |
| 18  | Q3237-02    | RW8-SP303-2025092 | SAM    | 09/30/25 10:00 |                          | JIGNESH  | OK     |

**Instrument ID:** SPECTROPHOTOMETER-2

**Daily Analysis Runlog For Sequence/QC Batch ID # LB137422**

|                  |                                                                                             |              |                      |
|------------------|---------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | Iwona                                                                                       | Review On    | 10/3/2025 4:10:07 PM |
| Supervise By     | jignesh                                                                                     | Supervise On | 10/3/2025 4:11:10 PM |
| SubDirectory     | LB137422                                                                                    | 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,WP114941,WP114942,WP114943,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    | 10/03/25 14:15 |         | Iwona    | OK     |
| 10  | CCB1       | CCB1        | CCB    | 10/03/25 14:15 |         | Iwona    | OK     |
| 11  | RL Check   | RL Check    | RL     | 10/03/25 14:16 |         | Iwona    | OK     |
| 12  | LB137422BL | LB137422BL  | MB     | 10/03/25 14:16 |         | Iwona    | OK     |
| 13  | LB137422BS | LB137422BS  | LCS    | 10/03/25 14:17 |         | Iwona    | OK     |
| 14  | Q3217-01   | Outfall 1   | SAM    | 10/03/25 14:17 |         | Iwona    | OK     |
| 15  | Q3218-01   | Outfall 1   | SAM    | 10/03/25 14:18 |         | Iwona    | OK     |
| 16  | Q3218-02   | Outfall 2   | SAM    | 10/03/25 14:18 |         | Iwona    | OK     |
| 17  | Q3218-03   | Outfall 3   | SAM    | 10/03/25 14:19 |         | Iwona    | OK     |
| 18  | Q3219-01   | Outfall 001 | SAM    | 10/03/25 14:19 |         | Iwona    | OK     |

Instrument ID: SPECTROPHOTOMETER-2

**Daily Analysis Runlog For Sequence/QC Batch ID # LB137422**

|                  |                                                                                             |              |                      |
|------------------|---------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | Iwona                                                                                       | Review On    | 10/3/2025 4:10:07 PM |
| Supervise By     | jignesh                                                                                     | Supervise On | 10/3/2025 4:11:10 PM |
| SubDirectory     | LB137422                                                                                    | 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,WP114941,WP114942,WP114943,V |              |                      |

|    |             |             |     |                |  |       |    |
|----|-------------|-------------|-----|----------------|--|-------|----|
| 19 | Q3219-02    | Outfall 002 | SAM | 10/03/25 14:20 |  | Iwona | OK |
| 20 | Q3219-03    | Outfall 003 | SAM | 10/03/25 14:21 |  | Iwona | OK |
| 21 | Q3227-01    | Outfall 001 | SAM | 10/03/25 14:21 |  | Iwona | OK |
| 22 | CCV2        | CCV2        | CCV | 10/03/25 14:22 |  | Iwona | OK |
| 23 | CCB2        | CCB2        | CCB | 10/03/25 14:22 |  | Iwona | OK |
| 24 | Q3263-01    | 251818      | SAM | 10/03/25 14:23 |  | Iwona | OK |
| 25 | Q3263-02    | 266380      | SAM | 10/03/25 14:23 |  | Iwona | OK |
| 26 | Q3263-02DUP | 266380DUP   | DUP | 10/03/25 14:24 |  | Iwona | OK |
| 27 | Q3263-02MS  | 266380MS    | MS  | 10/03/25 14:24 |  | Iwona | OK |
| 28 | Q3263-02MSD | 266380MSD   | MSD | 10/03/25 14:25 |  | Iwona | OK |
| 29 | CCV3        | CCV3        | CCV | 10/03/25 14:25 |  | Iwona | OK |
| 30 | CCB3        | CCB3        | CCB | 10/03/25 14:26 |  | Iwona | OK |

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3227

**Test :** COD,TSS

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** LB137356, LB137422,

**Standard ID :**

WP114652, WP114653, WP114654, WP114655, WP114656, WP114657, WP114658, WP114659, WP114661, WP114939, WP114940, WP114941, WP114942, WP114943,

**Chemical ID :**

W3112, W3169, W3219, W3230,



| <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 (WCS-5) | None             | Jignesh Parikh<br>09/11/2025 |
| <b><u>FROM</u></b> 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="#">WP114653</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | WETCHEM_SCALE_5 (WC SC-5) | None             | Jignesh Parikh<br>09/11/2025 |
| <b><u>FROM</u></b> 0.08500gram of W3169 + 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> |
|------------------|----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 139              | COD calibration std. 0 ppm | <a href="#">WP114654</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | None             | Jignesh Parikh       |
|                  |                            |                          |                  |                        |                    |                |                  | 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_F<br>IPETTE_3<br>(WC) | Jignesh Parikh       |
|                  |                             |                          |                  |                        |                    |                |                               | 09/11/2025           |

**FROM** 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_PIPETTE_3 | Jignesh Parikh       |
| (WC)             |                                                                        |                          |                  |                        |                    |                |                   |                      |
| <u>FROM</u>      | 9.00000ml of W3112 + 1.00000ml 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>         |
|-------------------------------------------------------------------------------------------|------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 135                                                                                       | COD calibration std. 150 ppm | <a href="#">WP114659</a> | 09/08/2025       | 09/15/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>09/11/2025 |
| <b><u>FROM</u></b> 8.50000ml of W3112 + 1.50000ml 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>             |
|------------------|------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 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

| <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="#">WP114939</a> | 09/29/2025       | 10/06/2025             | Iwona Zarych       | WETCHEM_S<br>CALE_5 (WC<br>SC-5) | None             | Jignesh Parikh<br><br>09/30/2025 |

**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="#">WP114940</a> | 09/29/2025       | 10/06/2025             | Iwona Zarych       | WETCHEM_SCALE_5 (WC SC-5) | None             | Jignesh Parikh<br>09/30/2025 |
| <b><u>FROM</u></b> 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="#">WP114941</a> | 09/29/2025       | 10/06/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>09/30/2025 |
| <b>FROM</b> 9.50000ml of W3112 + 0.50000ml of WP114939 = 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="#">WP114942</a> | 09/29/2025       | 10/06/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>09/30/2025 |
| <b><u>FROM</u></b> 9.50000ml of W3112 + 0.50000ml of WP114940 = 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="#">WP114943</a> | 09/29/2025       | 10/06/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>09/30/2025 |
| <b><u>FROM</u></b> 9.90000ml of W3112 + 0.10000ml of WP114939 = Final Quantity: 10.000 ml |             |                          |                  |                        |                    |                |                           |                              |

## CHEMICAL RECEIPT LOG BOOK

| 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          |

| 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. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 2025040493 | 06/30/2030      | 06/26/2025 / lwona      | 06/26/2025 / lwona          | W3219          |

| 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 | 5GE0517 | 05/31/2030      | 10/03/2025 / lwona      | 07/11/2025 / lwona          | W3230          |



|                      |                                |
|----------------------|--------------------------------|
| 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



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

W 3228

W 3229

W 3230

Rec. on 7/11/25 by 12



environmental  
express®

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

May 12, 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           | 5GE0517        | COD Reagent Vials,<br>0 - 150 ppm | May-30                 |



# SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Durham School Services  
ADDRESS: 77 Ferry Street  
CITY: Easthampton STATE: MA ZIP: 01027  
ATTENTION: accuracy.stormwater@alliance-ty.com  
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: CSC 4026 Easthampton  
PROJECT NO.: AEC-2025-0013 LOCATION: Easthampton  
PROJECT MANAGER:  
e-mail:  
PHONE: FAX:

CLIENT BILLING INFORMATION

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

ANALYSIS

DATA TURNAROUND INFORMATION

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

| COD | TSS | PAH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----|-----|-----|---|---|---|---|---|---|---|---|---|
|     |     |     |   |   |   |   |   |   |   |   |   |

PRESERVATIVES

COMMENTS

← Specify Preservatives  
A-HCl D-NaOH  
B-HNO3 E-ICE  
C-H2SO4 F-OTHER

| ALLIANCE<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE<br>COMP GRAB | SAMPLE<br>COLLECTION<br>DATE TIME | # OF BOTTLES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|--------------------------|----------------------------------|------------------|-----------------------------|-----------------------------------|--------------|---|---|---|---|---|---|---|---|---|
| 1.                       | Outfall 001                      | SW               | X                           | 9/25 1:10                         |              | 1 | 1 | 1 |   |   |   |   |   |   |
| 2.                       |                                  |                  |                             |                                   |              |   |   |   |   |   |   |   |   |   |
| 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. | DATE/TIME: 9/26/25 11:38 | RECEIVED BY:<br>1. [Signature] | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP 3.4 °C     |
| RELINQUISHED BY SAMPLER:<br>2. | DATE/TIME:               | RECEIVED BY:<br>2. [Signature] | Comments: IR-Gun #1                                                                                                                                                    |
| RELINQUISHED BY SAMPLER:<br>3. | DATE/TIME:               | RECEIVED BY:<br>3. [Signature] | Page ____ of CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other Shipment Complete <input type="checkbox"/> YES <input type="checkbox"/> NO |

---

**From:** Staci Bruce  
**Sent:** Thursday, September 25, 2025 3:30 PM  
**To:** Yazmeen Gomez  
**Cc:** Greg Etter  
**Subject:** Samples Arriving Tomorrow  
**Attachments:** Easthampton COC.pdf

Yazmeen,

There are samples arriving tomorrow with the attached chain of custody. We were just informed we do NOT need PAH. I apologize for the confusion.

ENVIRONMENTAL<sup>360</sup> now Alliance  
TECHNICAL GROUP

**Staci Bruce**  
Director, Compliance  
Mobile: 423-902-9441  
[www.alliancetg.com](http://www.alliancetg.com)

### 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           |