

# BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 10/15/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3248

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP114920

QC BATCH ID: LB137546

BOD Water: WP115220

Starch: W3149

Sulfuric acid, 1N: WP112832

POLYSEED: WP115222

GGA: WP115221

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                  | 9.5                | 9.5        | 9.5     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.7                  | 19.2               | 9.5        | 9.5     |

Meter Calibration1: 9.39 Zero DO Reading1: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.59

## After Incubation

Meter Calibration2: 8.68 Zero DO Reading2: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure2: 755 mmHg

QC BATCH ID: LB137546

INCUBATOR TEMP IN(C): 19.9

INCUBATOR TEMP OUT(C): 19.8

TIME IN: 17:10

TIME OUT: 15:30

DATE IN: 10/15/2025

DATE OUT: 10/20/2025

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB137546BL   | 1          | No       | 6.67       | N/A      | 20.80   | 300           | 9.58          | 9.56        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.44          | 6.68        | 2.76      | 0.55              | 0.59              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.38          | 4.83        | 4.55      | 0.61              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.36          | 3.20        | 6.16      | 0.62              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.49          | 5.40        | 4.09      | 175               | 179.83            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.48          | 5.31        | 4.17      | 179               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.46          | 5.16        | 4.3       | 185.5             |                   |             |
| Q3344-01     | 1          | No       | 7.98       | 7.42     | 20.00   | 2             | 9.50          | 8.04        | -         | 0                 | 62.88             | pH Adjusted |
| Q3344-01     | 2          |          |            |          |         | 10            | 9.48          | 6.23        | 3.25      | 79.8              |                   |             |
| Q3344-01     | 3          |          |            |          |         | 50            | 9.39          | 1.14        | 8.25      | 45.96             |                   |             |
| Q3344-01     | 4          |          |            |          |         | 100           | 9.25          | 0.45        | -         | 0                 |                   |             |
| Q3344-01DUP  | 1          | No       | 7.98       | 7.42     | 20.40   | 2             | 9.51          | 8.19        | -         | 0                 | 61.02             | pH Adjusted |
| Q3344-01DUP  | 2          |          |            |          |         | 10            | 9.46          | 6.32        | 3.14      | 76.5              |                   |             |
| Q3344-01DUP  | 3          |          |            |          |         | 50            | 9.39          | 1.21        | 8.18      | 45.54             |                   |             |
| Q3344-01DUP  | 4          |          |            |          |         | 100           | 9.27          | 0.16        | -         | 0                 |                   |             |
| Q3345-07     | 1          | No       | 6.87       | N/A      | 20.40   | 5             | 9.50          | 8.80        | -         | 0                 |                   |             |
| Q3345-07     | 2          |          |            |          |         | 20            | 9.48          | 8.00        | -         | 0                 |                   |             |
| Q3345-07     | 3          |          |            |          |         | 50            | 9.19          | 7.63        | -         | 0                 |                   |             |
| Q3345-07     | 4          |          |            |          |         | 150           | 7.95          | 7.03        | -         | 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.

66137546

WORKLIST(Hardcopy Internal Chain)

WorkList Name : BOD5-10-15

WorkList ID : 192485

Department : Wet-Chemistry

Date : 10-15-2025 12:46:14

| Sample   | Customer Sample      | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|----------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3344-01 | 1 EFFLUENT-COMPOSITE | Water  | BOD5 | Cool 4 deg C | M&MM01   | J22                         | 10/14/2025   | SM5210 B |
| Q3345-07 | TANK-FARM-WATER      | Water  | BOD5 | Cool 4 deg C | PSEG03   | D31                         | 10/14/2025   | SM5210 B |

Date/Time 10/15/2025 15:10  
Raw Sample Received by: RM (WC)  
Raw Sample Relinquished by: JQ WDC

Date/Time 10/15/2025 17:00  
Raw Sample Received by: JQ WDC  
Raw Sample Relinquished by: RM WDC