

# BOD5 LOG

ANALYST: rubina

SUPERVISOR: Iwona

Analysis Date: 09/19/2025

QC BATCH ID: LB137242

BOD Water: WP114836

MANGANOUS SULFATE SOLUTION: W3103

Starch: W3149

Alkaline Iodide Azide: W3109

Sulfuric acid, 1N: WP112832

Sodium Thiosulfate, 0.025N: W3105

POLYSEED: WP114838

NaOH, 1N: WP113878

GGA: WP114837

IncubatorID: INCUBATOR #3

Chlorine Strips: W3155

GuageID: 0511064

pH Strips: W3215

Zero DO: WP114418

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 9.7                | 9.7        | 9.7     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.9                  | 19.6               | 9.7        | 9.7     |

Meter Calibration1: 8.96

Zero DO Reading1: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.77

## After Incubation

Meter Calibration2: 8.93

Zero DO Reading2: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure2: 760 mmHg

QC BATCH ID: LB137242

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 20.3

TIME IN: 17:00

TIME OUT: 11:50

DATE IN: 09/19/2025

DATE OUT: 09/24/2025

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB137242BL   | 1          | No       | 6.72       | N/A      | 20.90   | 300           | 9.76          | 9.74        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.68          | 6.86        | 2.82      | 0.56              | 0.6               |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.66          | 5.07        | 4.59      | 0.61              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.63          | 3.35        | 6.28      | 0.63              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.68          | 5.48        | 4.2       | 180               | 184.17            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.68          | 5.41        | 4.27      | 183.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.66          | 5.28        | 4.38      | 189               |                   |             |
| Q3135-01     | 1          | No       | 7.29       | N/A      | 20.00   | 5             | 9.67          | 8.65        | -         | 0                 | 44.52             |             |
| Q3135-01     | 2          |          |            |          |         | 20            | 9.33          | 5.47        | 3.86      | 48.9              |                   |             |
| Q3135-01     | 3          |          |            |          |         | 50            | 9.07          | 1.78        | 7.29      | 40.14             |                   |             |
| Q3135-01     | 4          |          |            |          |         | 150           | 7.44          | 0.41        | -         | 0                 |                   |             |
| Q3151-02     | 1          | No       | 11.40      | 6.95     | 20.20   | 5             | 9.74          | 8.72        | -         | 0                 |                   | pH Adjusted |
| Q3151-02     | 2          |          |            |          |         | 20            | 9.73          | 8.52        | -         | 0                 |                   |             |
| Q3151-02     | 3          |          |            |          |         | 50            | 9.70          | 8.37        | -         | 0                 |                   |             |
| Q3151-02     | 4          |          |            |          |         | 150           | 9.44          | 8.11        | -         | 0                 |                   |             |
| Q3151-02DUP  | 1          | No       | 11.40      | 6.95     | 20.20   | 5             | 9.73          | 8.88        | -         | 0                 |                   | pH Adjusted |
| Q3151-02DUP  | 2          |          |            |          |         | 20            | 9.72          | 8.66        | -         | 0                 |                   |             |
| Q3151-02DUP  | 3          |          |            |          |         | 50            | 9.68          | 8.30        | -         | 0                 |                   |             |
| Q3151-02DUP  | 4          |          |            |          |         | 150           | 9.46          | 8.02        | -         | 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)

6137242

WorkList Name : bod5-09-19

WorkList ID : 191968

Department : Wet-Chemistry

Date : 09-19-2025 12:06:42

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3135-01 | MH-121          | Water  | BOD5 | Cool 4 deg C | PSEG03   | D41                         | 09/18/2025   | SM5210 B |
| Q3151-02 | 1402            | Water  | BOD5 | Cool 4 deg C | PSEG03   | D31                         | 09/19/2025   | SM5210 B |

Date/Time 09/19/2025 14:30  
 Raw Sample Received by: RM (ws)  
 Raw Sample Relinquished by: RM (ws)

Date/Time 09/19/2025 17:10  
 Raw Sample Received by: RM (ws)  
 Raw Sample Relinquished by: RM (ws)