

# BOD5 LOG

**ANALYST:** rubina

**SUPERVISOR:** Iwona

**Analysis Date:** 07/16/2025

**QC BATCH ID:** LB136500

**BOD Water:** WP113967

**Starch:** W3149

**Sulfuric acid, 1N:** WP112832

**POLYSEED:** WP113969

**GGA:** WP113968

**Chlorine Strips:** W3155

**pH Strips:** W3215

**MANGANOUS SULFATE SOLUTION:** W3103

**Alkaline Iodide Azide:** W3109

**Sodium Thiosulfate, 0.025N:** W3105

**NaOH, 1N:** WP113878

**IncubatorID:** INCUBATOR #3

**GuageID:** 0511064

**Zero DO:** WP113605

| 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     | 9.8                  | 19.4               | 9.6        | 9.6     |

Meter Calibration1: 8.94

Zero DO Reading1: 0.11 mg/L (<=0.2 Criteria)

Barometric Pressure1: 760 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.69

## After Incubation

Meter Calibration2: 8.72

Zero DO Reading2: 0.09 mg/L (<=0.2 Criteria)

Barometric Pressure2: 760 mmHg

QC BATCH ID: LB136500

INCUBATOR TEMP IN(C): 20.2

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 12:40

TIME OUT: 12:00

DATE IN: 07/16/2025

DATE OUT: 07/21/2025

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB136500BL   | 1          | No       | 6.57       | N/A      | 20.80   | 300           | 9.68          | 9.67        | 0.01      | 0.01              | 0.01              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.61          | 6.68        | 2.93      | 0.59              | 0.62              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.53          | 4.52        | 5.01      | 0.67              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.50          | 3.39        | 6.11      | 0.61              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.64          | 5.43        | 4.21      | 179.5             | 184.17            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.63          | 5.30        | 4.33      | 185.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.63          | 5.26        | 4.37      | 187.5             |                   |             |
| Q2602-01     | 1          | No       | 10.20      | 7.42     | 20.70   | 5             | 9.63          | 8.62        | -         | 0                 |                   | pH Adjusted |
| Q2602-01     | 2          |          |            |          |         | 20            | 9.59          | 8.53        | -         | 0                 |                   |             |
| Q2602-01     | 3          |          |            |          |         | 50            | 9.57          | 8.30        | -         | 0                 |                   |             |
| Q2602-01     | 4          |          |            |          |         | 150           | 9.56          | 8.02        | -         | 0                 |                   |             |
| Q2602-01DUP  | 1          | No       | 10.20      | 7.42     | 20.70   | 5             | 9.64          | 8.80        | -         | 0                 |                   | pH Adjusted |
| Q2602-01DUP  | 2          |          |            |          |         | 20            | 9.59          | 8.43        | -         | 0                 |                   |             |
| Q2602-01DUP  | 3          |          |            |          |         | 50            | 9.58          | 8.21        | -         | 0                 |                   |             |
| Q2602-01DUP  | 4          |          |            |          |         | 150           | 9.55          | 8.11        | -         | 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)

6136506

WorkList Name : BOD5-7-16

WorkList ID : 190767

Department : Wet-Chemistry

Date : 07-16-2025 10:39:34

| Sample   | Customer Sample  | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q2602-01 | FRAC-TANK-266380 | Water  | BOD5 | Cool 4 deg C | PSEG03   | D31                         | 07/14/2025   | SM5210 B |

Date/Time 07/16/2025 11-10  
 Raw Sample Received by: RM wgy  
 Raw Sample Relinquished by: 28(121)

Date/Time 07/16/2025 13:00  
 Raw Sample Received by: 28(121)  
 Raw Sample Relinquished by: RM wgy