

# BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 11/07/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3248

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP115341

QC BATCH ID: LB137873

BOD Water: WP115513

Starch: W3149

Sulfuric acid, 1N: WP115342

POLYSEED: WP115515

GGA: WP115514

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: 9.17 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 750 mmHg DO Meter BOD fluid reading for winkler comparison: 9.59

## After Incubation

Meter Calibration2: 8.78 Zero DO Reading2: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure2: 750 mmHg

QC BATCH ID: LB137873

INCUBATOR TEMP IN(C): 20.1

INCUBATOR TEMP OUT(C): 20.1

TIME IN: 11:30

TIME OUT: 10:30

DATE IN: 11/07/2025

DATE OUT: 11/12/2025

| 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 |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|---------|
| LB137873BL   | 1          | No       | 6.62       | N/A      | 20.80   | 300           | 9.59          | 9.57        | 0.02      | 0.02              | 0.02              |         |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.47          | 6.37        | 3.1       | 0.62              | 0.65              |         |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.45          | 4.36        | 5.09      | 0.68              |                   |         |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.41          | 2.95        | 6.46      | 0.65              |                   |         |
| GGA          | 1          |          |            |          |         | 6             | 9.49          | 5.24        | 4.25      | 180               | 182.83            |         |
| GGA          | 2          |          |            |          |         | 6             | 9.47          | 5.19        | 4.28      | 181.5             |                   |         |
| GGA          | 3          |          |            |          |         | 6             | 9.47          | 5.08        | 4.39      | 187               |                   |         |
| Q3569-01     | 1          | No       | 6.88       | N/A      | 20.20   | 5             | 9.57          | 7.92        | -         | 0                 | 50.02             |         |
| Q3569-01     | 2          |          |            |          |         | 20            | 9.55          | 3.02        | 6.53      | 88.2              |                   |         |
| Q3569-01     | 3          |          |            |          |         | 50            | 9.52          | 1.17        | 8.35      | 46.2              |                   |         |
| Q3569-01     | 4          |          |            |          |         | 150           | 9.48          | 1.00        | 8.48      | 15.66             |                   |         |
| Q3569-01DUP  | 1          | No       | 6.88       | N/A      | 20.20   | 5             | 9.56          | 7.80        | -         | 0                 | 49.16             |         |
| Q3569-01DUP  | 2          |          |            |          |         | 20            | 9.53          | 3.17        | 6.36      | 85.65             |                   |         |
| Q3569-01DUP  | 3          |          |            |          |         | 50            | 9.50          | 1.14        | 8.36      | 46.26             |                   |         |
| Q3569-01DUP  | 4          |          |            |          |         | 150           | 9.48          | 1.04        | 8.44      | 15.58             |                   |         |
| Q3569-02     | 1          | No       | 6.51       | N/A      | 20.00   | 5             | 9.48          | 4.02        | 5.46      | 288.6             | 107.72            |         |
| Q3569-02     | 2          |          |            |          |         | 20            | 9.40          | 2.89        | 6.51      | 87.9              |                   |         |
| Q3569-02     | 3          |          |            |          |         | 50            | 9.11          | 1.57        | 7.54      | 41.34             |                   |         |
| Q3569-02     | 4          |          |            |          |         | 150           | 8.38          | 1.21        | 7.17      | 13.04             |                   |         |

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.