

# BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 04/11/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP111323

IncubatorID: INCUBATOR #3

GuageID: 0511062

Zero DO: WP112277

QC BATCH ID: LB135390

BOD Water: WP112675

Starch: W3149

Sulfuric acid, 1N: WP110386

POLYSEED: WP112677

GGA: WP112676

Chlorine Strips: W3155

pH Strips: W3140

| 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: 9.46 Zero DO Reading1: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure1: 765 mmHg DO Meter BOD fluid reading for winkler comparison: 9.79

## After Incubation

Meter Calibration2: 9.51 Zero DO Reading2: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure2: 755 mmHg

QC BATCH ID: LB135390

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 10:00

TIME OUT: 08:30

DATE IN: 04/11/2025

DATE OUT: 04/16/2025

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB135390BL   | 1          | No       | 6.58       | N/A      | 20.70   | 300           | 9.78          | 9.77        | 0.01      | 0.01              | 0.01              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.69          | 6.48        | 3.21      | 0.64              | 0.69              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.64          | 4.01        | 5.63      | 0.75              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.60          | 2.89        | 6.71      | 0.67              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.71          | 5.21        | 4.5       | 190.5             | 196.83            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.71          | 5.05        | 4.66      | 198.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.70          | 4.98        | 4.72      | 201.5             |                   |             |
| Q1782-01     | 1          | No       | 5.95       | 6.95     | 20.00   | 5             | 9.70          | 8.89        | -         | 0                 |                   | pH Adjusted |
| Q1782-01     | 2          |          |            |          |         | 20            | 9.68          | 8.61        | -         | 0                 |                   |             |
| Q1782-01     | 3          |          |            |          |         | 50            | 9.59          | 8.19        | -         | 0                 |                   |             |
| Q1782-01     | 4          |          |            |          |         | 150           | 8.97          | 7.92        | -         | 0                 |                   |             |
| Q1782-03     | 1          | No       | 6.82       | N/A      | 20.00   | 5             | 9.77          | 8.90        | -         | 0                 |                   |             |
| Q1782-03     | 2          |          |            |          |         | 20            | 9.75          | 8.65        | -         | 0                 |                   |             |
| Q1782-03     | 3          |          |            |          |         | 50            | 9.71          | 8.30        | -         | 0                 |                   |             |
| Q1782-03     | 4          |          |            |          |         | 150           | 8.85          | 8.14        | -         | 0                 |                   |             |
| Q1782-05     | 1          | No       | 6.71       | N/A      | 20.00   | 5             | 9.77          | 8.85        | -         | 0                 |                   |             |
| Q1782-05     | 2          |          |            |          |         | 20            | 9.70          | 8.72        | -         | 0                 |                   |             |
| Q1782-05     | 3          |          |            |          |         | 50            | 9.65          | 8.21        | -         | 0                 |                   |             |
| Q1782-05     | 4          |          |            |          |         | 150           | 9.58          | 7.99        | -         | 0                 |                   |             |
| Q1782-07     | 1          | No       | 6.68       | N/A      | 20.00   | 5             | 9.76          | 8.75        | -         | 0                 |                   |             |
| Q1782-07     | 2          |          |            |          |         | 20            | 9.66          | 8.68        | -         | 0                 |                   |             |
| Q1782-07     | 3          |          |            |          |         | 50            | 9.45          | 7.84        | -         | 0                 |                   |             |
| Q1782-07     | 4          |          |            |          |         | 150           | 8.91          | 7.02        | -         | 0                 |                   |             |
| Q1782-07DUP  | 1          | No       | 6.68       | N/A      | 20.00   | 5             | 9.76          | 8.85        | -         | 0                 |                   |             |
| Q1782-07DUP  | 2          |          |            |          |         | 20            | 9.65          | 8.68        | -         | 0                 |                   |             |
| Q1782-07DUP  | 3          |          |            |          |         | 50            | 9.42          | 7.73        | -         | 0                 |                   |             |
| Q1782-07DUP  | 4          |          |            |          |         | 150           | 8.92          | 7.19        | -         | 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)

L6135390

WorkList Name : bod5-04-11

WorkList ID : 188868

Department : Wet-Chemistry

Date : 04-11-2025 07:40:55

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q1782-01 | MW-1            | Water  | BOD5 | Cool 4 deg C | LOCK01   | K11                         | 04/09/2025   | SM5210 B |
| Q1782-03 | MW-2            | Water  | BOD5 | Cool 4 deg C | LOCK01   | K11                         | 04/09/2025   | SM5210 B |
| Q1782-05 | MW-3            | Water  | BOD5 | Cool 4 deg C | LOCK01   | K11                         | 04/09/2025   | SM5210 B |
| Q1782-07 | MW-4            | Water  | BOD5 | Cool 4 deg C | LOCK01   | K11                         | 04/09/2025   | SM5210 B |

Date/Time 04/11/2025 08:00  
 Raw Sample Received by: RM CWL  
 Raw Sample Relinquished by: RM CWL

Date/Time 04/11/2025 09:30  
 Raw Sample Received by: RM CWL  
 Raw Sample Relinquished by: RM CWL