

# BOD5 LOG

ANALYST: Rubina

SUPERVISOR: Iwona

Analysis Date: 06/07/2024

QC BATCH ID: LB131150

BOD Water: WP108404

Starch: W2977

Sulfuric acid, 1N: WP105744

POLYSEED: WP108406

GGA: WP108405

Chlorine Strips: W2965

pH Strips: W3056

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP106529

IncubatorID: INCUBATOR#3

GuageID: 0511064

Zero DO: WP108093

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.00                 | 8.5                | 8.5        | 8.5     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 8.5                  | 17                 | 8.5        | 8.5     |

Meter Calibration1: 7.85

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

Barometric Pressure1: 755 mmHg

DO Meter BOD fluid reading for winkler comparison: 8.55

## After Incubation

Meter Calibration2: 9.48

Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg



QC BATCH ID: LB131150

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 09:20

TIME OUT: 09:00

DATE IN: 06/07/2024

DATE OUT: 06/12/2024

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB131150BL   | 1          | No       | 6.7        | N/A      | 20.00   | 300           | 8.54          | 8.53        | 0.01      | 0.01              | 0.01              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.53          | 5.64        | 2.89      | 0.58              | 0.6               |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.50          | 3.56        | 4.94      | 0.66              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.46          | 2.80        | 5.66      | 0.57              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.44          | 4.43        | 4.01      | 170.5             | 173.67            |             |
| GGA          | 2          |          |            |          |         | 6             | 8.44          | 4.36        | 4.08      | 174               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 8.41          | 4.28        | 4.13      | 176.5             |                   |             |
| P2760-01     | 1          | No       | 5.56       | 6.59     | 20.10   | 5             | 8.50          | 8.31        | -         | 0                 |                   | pH Adjusted |
| P2760-01     | 2          |          |            |          |         | 20            | 8.48          | 8.02        | -         | 0                 |                   |             |
| P2760-01     | 3          |          |            |          |         | 50            | 8.45          | 7.91        | -         | 0                 |                   |             |
| P2760-01     | 4          |          |            |          |         | 150           | 8.44          | 7.70        | -         | 0                 |                   |             |
| P2760-01DUP  | 1          | No       | 5.56       | 6.59     | 20.10   | 5             | 8.51          | 8.24        | -         | 0                 |                   | pH Adjusted |
| P2760-01DUP  | 2          |          |            |          |         | 20            | 8.48          | 8.00        | -         | 0                 |                   |             |
| P2760-01DUP  | 3          |          |            |          |         | 50            | 8.46          | 7.84        | -         | 0                 |                   |             |
| P2760-01DUP  | 4          |          |            |          |         | 150           | 8.43          | 7.66        | -         | 0                 |                   |             |
| P2760-03     | 1          | No       | 6.50       | N/A      | 20.00   | 5             | 8.49          | 8.14        | -         | 0                 |                   |             |
| P2760-03     | 2          |          |            |          |         | 20            | 8.47          | 8.01        | -         | 0                 |                   |             |
| P2760-03     | 3          |          |            |          |         | 50            | 8.46          | 7.14        | -         | 0                 |                   |             |
| P2760-03     | 4          |          |            |          |         | 150           | 8.45          | 7.12        | -         | 0                 |                   |             |
| P2760-05     | 1          | No       | 6.42       | 6.81     | 20.10   | 5             | 8.48          | 8.03        | -         | 0                 |                   | pH Adjusted |
| P2760-05     | 2          |          |            |          |         | 20            | 8.47          | 7.92        | -         | 0                 |                   |             |
| P2760-05     | 3          |          |            |          |         | 50            | 8.43          | 7.80        | -         | 0                 |                   |             |
| P2760-05     | 4          |          |            |          |         | 150           | 8.42          | 7.62        | -         | 0                 |                   |             |
| P2760-07     | 1          | No       | 6.56       | N/A      | 20.00   | 5             | 8.46          | 8.12        | -         | 0                 |                   |             |
| P2760-07     | 2          |          |            |          |         | 20            | 8.44          | 7.99        | -         | 0                 |                   |             |
| P2760-07     | 3          |          |            |          |         | 50            | 8.43          | 7.90        | -         | 0                 |                   |             |
| P2760-07     | 4          |          |            |          |         | 150           | 8.34          | 7.81        | -         | 0                 |                   |             |

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE: 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.