

# BOD5 LOG

ANALYST: rubina

SUPERVISOR: Iwona

Analysis Date: 10/31/2024

QC BATCH ID: LB133238

BOD Water: WP110512

MANGANOUS SULFATE SOLUTION: W3103

Starch: W3149

Alkaline Iodide Azide: W3109

Sulfuric acid, 1N: WP110386

Sodium Thiosulfate, 0.025N: W3105

POLYSEED: WP110514

NaOH, 1N: WP108662

GGA: WP110513

IncubatorID: INCUBATOR #3

Chlorine Strips: W2965

GuageID: 0511062

pH Strips: W3104

Zero DO: WP110006

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 9.4                | 9.4        | 9.4     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.6                  | 19.00              | 9.4        | 9.4     |

Meter Calibration1: 8.79

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

Barometric Pressure1: 771 mmHg DO Meter BOD fluid reading for winkler comparison: 9.47

## After Incubation

Meter Calibration2: 8.72

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

Barometric Pressure2: 771 mmHg

QC BATCH ID: LB133238

INCUBATOR TEMP IN(C): 20.5

INCUBATOR TEMP OUT(C): 20.3

TIME IN: 14:45

TIME OUT: 10:15

DATE IN: 10/31/2024

DATE OUT: 11/05/2024

| 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 |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|---------|
| LB133238BL   | 1          | No       | 6.72       | N/A      | 20.70   | 300           | 9.46          | 9.45        | 0.01      | 0.01              | 0.01              |         |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.45          | 7.25        | 2.2       | 0.44              | 0.51              |         |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.41          | 5.38        | 4.03      | 0.54              |                   |         |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.33          | 3.91        | 5.42      | 0.54              |                   |         |
| GGA          | 1          |          |            |          |         | 6             | 9.40          | 5.09        | 4.31      | 190               | 198.5             |         |
| GGA          | 2          |          |            |          |         | 6             | 9.36          | 4.89        | 4.47      | 198               |                   |         |
| GGA          | 3          |          |            |          |         | 6             | 9.35          | 4.69        | 4.66      | 207.5             |                   |         |
| P4638-02     | 1          | No       | 6.83       | N/A      | 20.00   | 0.5           | 9.44          | 7.40        | 2.04      | 918               | 776.5             |         |
| P4638-02     | 2          |          |            |          |         | 1             | 9.37          | 5.75        | 3.62      | 933               |                   |         |
| P4638-02     | 3          |          |            |          |         | 2             | 9.34          | 3.91        | 5.43      | 738               |                   |         |
| P4638-02     | 4          |          |            |          |         | 3             | 9.31          | 3.63        | 5.68      | 517               |                   |         |
| P4638-02DUP  | 1          | No       | 6.83       | N/A      | 20.00   | 0.5           | 9.42          | 7.28        | 2.14      | 978               | 794.75            |         |
| P4638-02DUP  | 2          |          |            |          |         | 1             | 9.36          | 5.72        | 3.64      | 939               |                   |         |
| P4638-02DUP  | 3          |          |            |          |         | 2             | 9.34          | 3.87        | 5.47      | 744               |                   |         |
| P4638-02DUP  | 4          |          |            |          |         | 3             | 9.29          | 3.60        | 5.69      | 518               |                   |         |

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)

66133238

WorkList Name : bod5-1031

WorkList ID : 184978

Department : Wet-Chemistry

Date : 10-31-2024 10:15:18

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| P4638-02 | COMP            | Water  | BOD5 | Cool 4 deg C | ARAM01   | L11                         | 10/30/2024   | SM5210 B |

Date/Time 10/31/2024 13:00  
Raw Sample Received by: RM CWG  
Raw Sample Relinquished by: RM CWG

Date/Time 10/31/2024 14:30  
Raw Sample Received by: RM CWG  
Raw Sample Relinquished by: RM CWG