

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 03/17/2023**QC BATCH ID:** LB124555**BOD Water:** WP101558**Starch:** W2977**Sulfuric acid, 1N:** WP100509**POLYSEED:** WP101560**GGA:** WP101559**Chlorine Strips:** W2011**pH Strips:** W3006**MANGANOUS SULFATE SOLUTION:** W2913**Alkaline Iodide Azide:** W2914**Sodium Thiosulfate, 0.025N:** W2941**NaOH, 1N:** WP101216**IncubatorID:** INCUBATOR #3**GuageID:** 0511064**Zero DO:** WP101527

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 9.2                | 9.2        | 9.2     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.2                  | 18.4               | 9.2        | 9.2     |

Meter Calibration1: 8.81

Zero DO Reading1: 0.12 mg/L (&lt;=0.2 Criteria)

Barometric Pressure1: 755 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.29

**After Incubation**

Meter Calibration2: 8.86

Zero DO Reading2: 0.10 mg/L (&lt;=0.2 Criteria)

Barometric Pressure2: 776 mmHg



QC BATCH ID: LB124555

INCUBATOR TEMP IN(C): 19.9

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 17:00

TIME OUT: 13:45

DATE IN: 03/17/2023

DATE OUT: 03/22/2023

| 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 |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|---------|
| LB124555BL   | 1          | No       | 6.90       | N/A      | 20.10   | 300           | 9.28          | 9.27        | 0.01      | 0.01              | 0.01              |         |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.11          | 4.88        | 4.23      | 0.85              | 0.7               |         |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.06          | 4.05        | 5.01      | 0.67              |                   |         |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.96          | 3.03        | 5.93      | 0.59              |                   |         |
| GGA          | 1          |          |            |          |         | 6             | 9.20          | 4.82        | 4.38      | 184               | 189.17            |         |
| GGA          | 2          |          |            |          |         | 6             | 9.14          | 4.62        | 4.52      | 191               |                   |         |
| GGA          | 3          |          |            |          |         | 6             | 9.13          | 4.58        | 4.55      | 192.5             |                   |         |
| O2004-01     | 1          | No       | 7.26       | N/A      | 20.00   | 0.5           | 9.25          | 6.77        | 2.48      | 1068              | 838.38            |         |
| O2004-01     | 2          |          |            |          |         | 1             | 9.24          | 5.72        | 3.52      | 846               |                   |         |
| O2004-01     | 3          |          |            |          |         | 2             | 9.20          | 3.45        | 5.75      | 757.5             |                   |         |
| O2004-01     | 4          |          |            |          |         | 3             | 9.19          | 1.67        | 7.52      | 682               |                   |         |
| O2004-01DUP  | 1          | No       | 7.26       | N/A      | 20.00   | 0.5           | 9.26          | 6.67        | 2.59      | 1134              | 854               |         |
| O2004-01DUP  | 2          |          |            |          |         | 1             | 9.25          | 5.73        | 3.52      | 846               |                   |         |
| O2004-01DUP  | 3          |          |            |          |         | 2             | 9.21          | 3.47        | 5.74      | 756               |                   |         |
| O2004-01DUP  | 4          |          |            |          |         | 3             | 9.18          | 1.68        | 7.5       | 680               |                   |         |

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.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : bod-3-17

WorkList ID : 168224

Department : Wet-Chemistry

Date : 03-17-2023 08:17:45

26124555

| Due Date   | Matrix | Sample   | Test | Preservative | Customer | Raw Sample Storage Location | Customer Sample | Collect Date | Method   |
|------------|--------|----------|------|--------------|----------|-----------------------------|-----------------|--------------|----------|
| 03/19/2023 | Water  | O2004-01 | BOD5 | Cool 4 deg C | ARDM01   | J11                         | EFF-WASTE-WATER | 03/17/2023   | SM5210 B |

Date/Time 03/17/2023 14:00  
Raw Sample Received by: RM CWR  
Raw Sample Relinquished by: PCWR

Date/Time 03/17/2023 17:00  
Raw Sample Received by: JH(WI)  
Raw Sample Relinquished by: RM CWR