

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 07/28/2023**QC BATCH ID:** LB126653**BOD Water:** WP103499**Starch:** W2977**Sulfuric acid, 1N:** WP102923**POLYSEED:** WP103501**GGA:** WP103500**Chlorine Strips:** W2011**pH Strips:** W3006**MANGANOUS SULFATE SOLUTION:** W2913**Alkaline Iodide Azide:** W2914**Sodium Thiosulfate, 0.025N:** W2976**NaOH, 1N:** WP101216**IncubatorID:** INCUBATOR #3**GuageID:** 0511064**Zero DO:** WP103062

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 8.7                | 8.7        | 8.7     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 8.7                  | 17.4               | 8.7        | 8.7     |

Meter Calibration1: 8.57

Zero DO Reading1: 0.14 mg/L (&lt;=0.2 Criteria)

Barometric Pressure1: 760 mmHg

DO Meter BOD fluid reading for winkler comparison: 8.72

**After Incubation**

Meter Calibration2: 9.28

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

Barometric Pressure2: 765 mmHg



QC BATCH ID: LB126653

INCUBATOR TEMP IN(C): 20.2

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 17:30

TIME OUT: 15:30

DATE IN: 07/28/2023

DATE OUT: 08/02/2023

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB126653BL   | 1          | No       | 6.68       | N/A      | 20.50   | 300           | 8.71          | 8.69        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.63          | 4.99        | 3.64      | 0.73              | 0.66              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.58          | 3.49        | 5.09      | 0.68              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.53          | 2.92        | 5.61      | 0.56              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.69          | 4.39        | 4.3       | 182               | 192.33            |             |
| GGA          | 2          |          |            |          |         | 6             | 8.67          | 4.19        | 4.48      | 191               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 8.65          | 3.91        | 4.74      | 204               |                   |             |
| O3836-01     | 1          | No       | 5.51       | 6.69     | 20.60   | 0.5           | 8.69          | 7.69        | -         | 0                 | 45                | pH Adjusted |
| O3836-01     | 2          |          |            |          |         | 1             | 8.68          | 7.32        | -         | 0                 |                   |             |
| O3836-01     | 3          |          |            |          |         | 2             | 8.61          | 6.84        | -         | 0                 |                   |             |
| O3836-01     | 4          |          |            |          |         | 5             | 8.37          | 6.70        | -         | 0                 |                   |             |
| O3836-01     | 5          |          |            |          |         | 10            | 7.81          | 5.65        | 2.16      | 45                |                   |             |
| O3836-01DUP  | 1          | No       | 5.51       | 6.69     | 20.60   | 0.5           | 8.70          | 7.60        | -         | 0                 | 45.9              | pH Adjusted |
| O3836-01DUP  | 2          |          |            |          |         | 1             | 8.67          | 7.26        | -         | 0                 |                   |             |
| O3836-01DUP  | 3          |          |            |          |         | 2             | 8.60          | 6.89        | -         | 0                 |                   |             |
| O3836-01DUP  | 4          |          |            |          |         | 5             | 8.35          | 6.63        | -         | 0                 |                   |             |
| O3836-01DUP  | 5          |          |            |          |         | 10            | 7.80          | 5.61        | 2.19      | 45.9              |                   |             |
| O3836-05     | 1          | No       | 4.04       | 6.70     | 20.60   | 0.01          | 8.70          | 7.45        | -         | 0                 | 8040              | pH Adjusted |
| O3836-05     | 2          |          |            |          |         | 0.05          | 8.68          | 6.41        | 2.27      | 9660              |                   |             |
| O3836-05     | 3          |          |            |          |         | 0.1           | 8.66          | 5.86        | 2.8       | 6420              |                   |             |
| O3836-05     | 4          |          |            |          |         | 0.5           | 8.33          | 0.31        | -         | 0                 |                   |             |
| O3836-05     | 5          |          |            |          |         | 1             | 7.80          | 0.25        | -         | 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.

# WORKLIST(Hardcopy Internal Chain)

66126653

WorkList Name : bod5 -7-28

WorkList ID : 172277

Department : Wet-Chemistry

Date : 07-28-2023 07:56:55

| Sample     | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|------------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| O3836-01 C | EFFLUENT        | Water  | BOD5 | Cool 4 deg C | HOLL01   | L21                         | 07/28/2023   | SM5210 B |
| O3836-05 B | INFLUENT        | Water  | BOD5 | Cool 4 deg C | HOLL01   | L21                         | 07/28/2023   | SM5210 B |

Date/Time 07/28/2023 1530  
 Raw Sample Received by: RM CWC  
 Raw Sample Relinquished by: JWC

Date/Time 07/28/2023 1700  
 Raw Sample Received by: JWC  
 Raw Sample Relinquished by: RM CWC