

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 06/07/2023**QC BATCH ID:** LB125821**BOD Water:** WP102824**Starch:** W2977**Sulfuric acid, 1N:** WP100509**POLYSEED:** WP102826**GGA:** WP102825**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:** WP102602

| 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     | 9.4                  | 18.8               | 9.4        | 9.4     |

Meter Calibration1: 8.89

Zero DO Reading1: 0.09 mg/L (&lt;=0.2 Criteria)

Barometric Pressure1: 755 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.45

**After Incubation**

Meter Calibration2: 8.77

Zero DO Reading2: 0.12 mg/L (&lt;=0.2 Criteria)

Barometric Pressure2: 755 mmHg



QC BATCH ID: LB125821

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 20.2

TIME IN: 09:00

TIME OUT: 13:00

DATE IN: 06/07/2023

DATE OUT: 06/12/2023

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB125821BL   | 1          | No       | 6.66       | N/A      | 20.60   | 300           | 9.44          | 9.43        | 0.01      | 0.01              | 0.01              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.42          | 5.12        | 4.3       | 0.86              | 0.74              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.41          | 3.98        | 5.43      | 0.72              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.40          | 2.98        | 6.42      | 0.64              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.32          | 4.62        | 4.7       | 198               | 211.17            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.31          | 4.30        | 5.01      | 213.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.29          | 4.11        | 5.18      | 222               |                   |             |
| O3046-01     | 1          | No       | 7.04       | N/A      | 20.70   | 5             | 9.22          | 0.31        | -         | 0                 |                   |             |
| O3046-01     | 2          |          |            |          |         | 20            | 8.94          | 0.25        | -         | 0                 |                   |             |
| O3046-01     | 3          |          |            |          |         | 50            | 8.10          | 0.21        | -         | 0                 |                   |             |
| O3046-01     | 4          |          |            |          |         | 150           | 4.79          | 0.20        | -         | 0                 |                   |             |
| O3046-01DUP  | 1          | No       | 7.04       | N/A      | 20.70   | 5             | 9.25          | 0.33        | -         | 0                 |                   |             |
| O3046-01DUP  | 2          |          |            |          |         | 20            | 8.92          | 0.24        | -         | 0                 |                   |             |
| O3046-01DUP  | 3          |          |            |          |         | 50            | 8.09          | 0.21        | -         | 0                 |                   |             |
| O3046-01DUP  | 4          |          |            |          |         | 150           | 7.79          | 0.19        | -         | 0                 |                   |             |
| O3046-07     | 1          | No       | 6.92       | N/A      | 20.30   | 5             | 9.14          | 0.25        | -         | 0                 |                   |             |
| O3046-07     | 2          |          |            |          |         | 20            | 8.58          | 0.23        | -         | 0                 |                   |             |
| O3046-07     | 3          |          |            |          |         | 50            | 7.29          | 0.21        | -         | 0                 |                   |             |
| O3046-07     | 4          |          |            |          |         | 150           | 2.15          | 0.20        | -         | 0                 |                   |             |
| O3046-13     | 1          | No       | 4.12       | 6.68     | 20.40   | 5             | 9.03          | 0.29        | -         | 0                 |                   | pH Adjusted |
| O3046-13     | 2          |          |            |          |         | 20            | 8.16          | 0.27        | -         | 0                 |                   |             |
| O3046-13     | 3          |          |            |          |         | 50            | 6.22          | 0.26        | -         | 0                 |                   |             |
| O3046-13     | 4          |          |            |          |         | 150           | 1.26          | 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)

66125821

WorkList Name : BOD 6

WorkList ID : 170596

Department : Wet-Chemistry

Date : 06-06-2023 17:21:34

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| O3046-01 | COMP-1-1-5      | Water  | BOD5 | Cool 4 deg C | PSEG03   | D11                         | 06/05/2023   | SM5210 B |
| O3046-07 | COMP-2-6-10     | Water  | BOD5 | Cool 4 deg C | PSEG03   | D11                         | 06/05/2023   | SM5210 B |
| O3046-13 | COMP-3-11-15    | Water  | BOD5 | Cool 4 deg C | PSEG03   | D11                         | 06/05/2023   | SM5210 B |

Date/Time 06/07/2023 08.00  
 Raw Sample Received by: [Signature]  
 Raw Sample Relinquished by: [Signature]

Date/Time 06/07/2023 09.00  
 Raw Sample Received by: [Signature]  
 Raw Sample Relinquished by: [Signature]