

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 04/19/2023**QC BATCH ID:** LB125043**BOD Water:** WP102039**Starch:** W2977**Sulfuric acid, 1N:** WP100509**POLYSEED:** WP102041**GGA:** WP102040**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:** WP102042

| 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: 8.91

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

Barometric Pressure1: 765 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.48

**After Incubation**

Meter Calibration2: 9.10

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

Barometric Pressure2: 760 mmHg



QC BATCH ID: LB125043

INCUBATOR TEMP IN(C): 20.1

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 14:30

TIME OUT: 15:00

DATE IN: 04/19/2023

DATE OUT: 04/24/2023

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB125043BL   | 1          | No       | 6.71       | N/A      | 20.80   | 300           | 9.47          | 9.46        | 0.01      | 0.01              | 0.01              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.43          | 6.10        | 3.33      | 0.67              | 0.66              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.42          | 4.32        | 5.1       | 0.68              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.40          | 3.09        | 6.31      | 0.63              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.40          | 5.49        | 3.91      | 162.5             | 179.33            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.37          | 5.09        | 4.28      | 181               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.35          | 4.80        | 4.55      | 194.5             |                   |             |
| O2403-01     | 1          | No       | 11.84      | 7.28     | 20.60   | 5             | 9.40          | 7.97        | -         | 0                 | 48.93             | pH Adjusted |
| O2403-01     | 2          |          |            |          |         | 20            | 9.39          | 4.95        | 4.44      | 56.7              |                   |             |
| O2403-01     | 3          |          |            |          |         | 50            | 9.34          | 1.82        | 7.52      | 41.16             |                   |             |
| O2403-01     | 4          |          |            |          |         | 150           | 9.08          | 0.19        | -         | 0                 |                   |             |
| O2403-01DUP  | 1          | No       | 11.84      | 7.28     | 20.60   | 5             | 9.41          | 7.96        | -         | 0                 | 49.08             | pH Adjusted |
| O2403-01DUP  | 2          |          |            |          |         | 20            | 9.40          | 4.94        | 4.46      | 57                |                   |             |
| O2403-01DUP  | 3          |          |            |          |         | 50            | 9.35          | 1.83        | 7.52      | 41.16             |                   |             |
| O2403-01DUP  | 4          |          |            |          |         | 150           | 9.07          | 0.20        | -         | 0                 |                   |             |
| O2403-07     | 1          | No       | 11.83      | 7.21     | 20.70   | 5             | 9.46          | 7.91        | -         | 0                 | 45.75             | pH Adjusted |
| O2403-07     | 2          |          |            |          |         | 20            | 9.42          | 5.71        | 3.71      | 45.75             |                   |             |
| O2403-07     | 3          |          |            |          |         | 50            | 9.31          | 0.50        | -         | 0                 |                   |             |
| O2403-07     | 4          |          |            |          |         | 150           | 9.01          | 0.18        | -         | 0                 |                   |             |
| O2403-13     | 1          | No       | 11.86      | 7.28     | 20.40   | 5             | 9.41          | 7.91        | -         | 0                 | 38.91             | pH Adjusted |
| O2403-13     | 2          |          |            |          |         | 20            | 9.37          | 6.25        | 3.12      | 36.9              |                   |             |
| O2403-13     | 3          |          |            |          |         | 50            | 9.30          | 1.82        | 7.48      | 40.92             |                   |             |
| O2403-13     | 4          |          |            |          |         | 150           | 8.79          | 0.17        | -         | 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)

WorkList Name : bod-4-19

WorkList ID : 169183

Department : Wet-Chemistry

Date : 04-19-2023 08:22:40

66125043

| Due Date   | Matrix | Sample   | Test | Preservative | Customer | Raw Sample Storage Location | Customer Sample | Collect Date | Method   |
|------------|--------|----------|------|--------------|----------|-----------------------------|-----------------|--------------|----------|
| 04/20/2023 | Water  | 02403-01 | BOD5 | Cool 4 deg C | PSEG03   | M11                         | COMP-1          | 04/18/2023   | SM5210 B |
| 04/20/2023 | Water  | 02403-07 | BOD5 | Cool 4 deg C | PSEG03   | M11                         | COMP-2          | 04/18/2023   | SM5210 B |
| 04/20/2023 | Water  | 02403-13 | BOD5 | Cool 4 deg C | PSEG03   | M11                         | COMP-3          | 04/18/2023   | SM5210 B |

Date/Time 04/19/2023 19:00  
 Raw Sample Received by: RM Carzi  
 Raw Sample Relinquished by: 10/08/1

Date/Time 04/19/2023 14:10  
 Raw Sample Received by: TP(CDC)  
 Raw Sample Relinquished by: RM Carzi