

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 03/01/2023**QC BATCH ID:** LB124317**BOD Water:** WP101258**Starch:** W2977**Sulfuric acid, 1N:** WP100509**POLYSEED:** WP101260**GGA:** WP101259**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:** WP101031

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 8.80               | 8.8        | 8.8     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 8.80                 | 17.6               | 8.8        | 8.8     |

Meter Calibration1: 9.01

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

Barometric Pressure1: 771 mmHg

DO Meter BOD fluid reading for winkler comparison: 8.79

**After Incubation**

Meter Calibration2: 8.54

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

Barometric Pressure2: 765 mmHg



QC BATCH ID: LB124317

INCUBATOR TEMP IN(C): 19.9

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 09:50

TIME OUT: 12:00

DATE IN: 03/01/2023

DATE OUT: 03/06/2023

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB124317BL   | 1          | No       | 7.10       | N/A      | 20.10   | 300           | 8.78          | 8.77        | 0.01      | 0.01              | 0.01              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.84          | 4.63        | 4.21      | 0.84              | 0.7               |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.82          | 3.82        | 5         | 0.67              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.81          | 2.90        | 5.91      | 0.59              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.68          | 4.88        | 3.8       | 155               | 180.33            |             |
| GGA          | 2          |          |            |          |         | 6             | 8.66          | 4.23        | 4.43      | 186.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 8.67          | 3.98        | 4.69      | 199.5             |                   |             |
| O1727-04     | 1          | No       | 7.82       | 7.20     | 20.20   | 5             | 8.75          | 7.16        | -         | 0                 | 2.9               | pH Adjusted |
| O1727-04     | 2          |          |            |          |         | 20            | 8.74          | 7.14        | -         | 0                 |                   |             |
| O1727-04     | 3          |          |            |          |         | 50            | 8.65          | 6.84        | -         | 0                 |                   |             |
| O1727-04     | 4          |          |            |          |         | 150           | 8.39          | 6.24        | 2.15      | 2.9               |                   |             |
| O1727-04DUP  | 1          | No       | 7.82       | 7.20     | 20.20   | 5             | 8.76          | 7.17        | -         | 0                 | 2.9               | pH Adjusted |
| O1727-04DUP  | 2          |          |            |          |         | 20            | 8.75          | 7.15        | -         | 0                 |                   |             |
| O1727-04DUP  | 3          |          |            |          |         | 50            | 8.64          | 6.85        | -         | 0                 |                   |             |
| O1727-04DUP  | 4          |          |            |          |         | 150           | 8.40          | 6.25        | 2.15      | 2.9               |                   |             |

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)

66124317

WorkList Name : bod3-01      WorkList ID : 167763      Department : Wet-Chemistry      Date : 03-01-2023 08:24:04

| Due Date   | Matrix | Sample   | Test | Preservative | Customer | Raw Sample Storage Location | Customer Sample | Collect Date | Method   |
|------------|--------|----------|------|--------------|----------|-----------------------------|-----------------|--------------|----------|
| 03/01/2023 | Water  | O1727-04 | BOD5 | Cool 4 deg C | PSEG03   | E12                         | JB1-WATER       | 02/27/2023   | SM5210 B |

Date/Time 03/01/2023 08:30  
 Raw Sample Received by: RM CWS  
 Raw Sample Relinquished by: SP1001

Date/Time 03/01/2023 10:00  
 Raw Sample Received by: SP1001  
 Raw Sample Relinquished by: RM CWS