

**BOD5 LOG****ANALYST:** Rubina**SUPERVISOR:** Iwona**Analysis Date:** 11/11/2022**QC BATCH ID:** LB122856**BOD Water:** WP99844**Starch:** W2766**Sulfuric acid, 1N:** WP97258**POLYSEED:** WP99846**GGA:** WP99845**Chlorine Strips:** W2011**pH Strips:** W2716**MANGANOUS SULFATE SOLUTION:** W2913**Alkaline Iodide Azide:** W2914**Sodium Thiosulfate, 0.025N:** W2941**NaOH, 1N:** WP97250**IncubatorID:** INCUBATOR #3**GuageID:** 0511064**Zero DO:** WP99822

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 8.5                | 8.5        | 8.5     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 8.5                  | 17.0               | 8.5        | 8.5     |

Meter Calibration1: 8.80

Barometric Pressure1: 755 mmHg

Zero DO Reading1: 0.07 mg/L (&lt;=0.2 Criteria)

Winkler titrated BOD fluid DO reading1: 8.71

**After Incubation**

Meter Calibration2: 8.84

Barometric Pressure2: 755 mmHg

Zero DO Reading2: 0.09 mg/L (&lt;=0.2 Criteria)

Winkler titrated BOD fluid DO reading2: 7.10



QC BATCH ID: LB122856

INCUBATOR TEMP IN(C): 20.0

INCUBATOR TEMP OUT(C): 19.9

TIME IN: 14:00

TIME OUT: 14:30

DATE IN: 11/11/2022

DATE OUT: 11/16/2022

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB122856BL   | 1          | No       | 6.8        | N/A      | 20.20   | 300           | 8.75          | 8.36        | 0.39      | 0.39              | 0.39              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.65          | 4.90        | 3.75      | 0.75              | 0.65              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.64          | 4.50        | 4.14      | 0.55              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.51          | 2.12        | 6.39      | 0.64              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.66          | 4.41        | 4.25      | 180               | 192.33            |             |
| GGA          | 2          |          |            |          |         | 6             | 8.65          | 4.12        | 4.53      | 194               |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 8.73          | 4.02        | 4.71      | 203               |                   |             |
| N5606-01     | 1          | No       | 7.90       | 7.20     | 20.30   | 0.5           | 8.69          | 7.15        | -         | 0                 | 469.5             | pH Adjusted |
| N5606-01     | 2          |          |            |          |         | 1             | 8.68          | 6.50        | 2.18      | 459               |                   |             |
| N5606-01     | 3          |          |            |          |         | 2             | 8.67          | 4.82        | 3.85      | 480               |                   |             |
| N5606-01     | 4          |          |            |          |         | 5             | 8.63          | 0.27        | -         | 0                 |                   |             |
| N5606-01     | 5          |          |            |          |         | 10            | 8.47          | 0.19        | -         | 0                 |                   |             |
| N5606-05     | 1          | No       | 5.64       | 6.95     | 20.50   | 0.01          | 8.74          | 7.48        | -         | 0                 | 12615             | pH Adjusted |
| N5606-05     | 2          |          |            |          |         | 0.05          | 8.70          | 6.20        | 2.5       | 11100             |                   |             |
| N5606-05     | 3          |          |            |          |         | 0.1           | 8.69          | 3.33        | 5.36      | 14130             |                   |             |
| N5606-05     | 4          |          |            |          |         | 0.5           | 8.67          | 0.17        | -         | 0                 |                   |             |
| N5606-05     | 5          |          |            |          |         | 1             | 8.65          | 0.14        | -         | 0                 |                   |             |
| N5609-02     | 1          | No       | 9.95       | 7.10     | 20.10   | 0.5           | 8.74          | 4.34        | 4.4       | 2250              | 2170.5            | pH Adjusted |
| N5609-02     | 2          |          |            |          |         | 1             | 8.71          | 1.09        | 7.62      | 2091              |                   |             |
| N5609-02     | 3          |          |            |          |         | 2             | 8.70          | 0.17        | -         | 0                 |                   |             |
| N5609-02     | 4          |          |            |          |         | 3             | 8.68          | 0.16        | -         | 0                 |                   |             |
| N5609-02DUP  | 1          | No       | 9.95       | 7.10     | 20.10   | 0.5           | 8.73          | 4.40        | 4.33      | 2208              | 2125.5            | pH Adjusted |
| N5609-02DUP  | 2          |          |            |          |         | 1             | 8.71          | 1.25        | 7.46      | 2043              |                   |             |
| N5609-02DUP  | 3          |          |            |          |         | 2             | 8.69          | 0.20        | -         | 0                 |                   |             |
| N5609-02DUP  | 4          |          |            |          |         | 3             | 8.67          | 0.18        | -         | 0                 |                   |             |

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

# WORKLIST(Hardcopy Internal Chain)

16122-856

WorkList Name : bod11-11      WorkList ID : 164930      Department : Wet-Chemistry      Date : 11-11-2022 08:19:48

| Due Date   | Matrix | Sample   | Test | Preservative | Customer | Raw Sample Storage Location | Customer Sample | Collect Date | Method   |
|------------|--------|----------|------|--------------|----------|-----------------------------|-----------------|--------------|----------|
| 11/13/2022 | Water  | N5606-01 | BOD5 | Cool 4 deg C | HOLL01   | G11                         | EFFLUENT        | 11/11/2022   | SM5210 B |
| 11/13/2022 | Water  | N5606-05 | BOD5 | Cool 4 deg C | HOLL01   | G11                         | INFLUENT        | 11/11/2022   | SM5210 B |
| 11/13/2022 | Water  | N5609-02 | BOD5 | Cool 4 deg C | ARDM01   | G11                         | EFF-WASTE-WATER | 11/11/2022   | SM5210 B |

Date/Time 11/11/22 16:00  
 Raw Sample Received by: RM CWC  
 Raw Sample Relinquished by: CP(SM)

Date/Time 11/11/22 13:10  
 Raw Sample Received by: CP(SM)  
 Raw Sample Relinquished by: RM CWC