



# BOD5 LOG

ANALYST: Rubina

SUPERVISOR: Iwona

Analysis Date: 01/26/2024

QC BATCH ID: LB129272

BOD Water: WP106328

Starch: W2977

Sulfuric acid, 1N: WP105744

POLYSEED: WP106330

GGA: WP106329

Chlorine Strips: W2965

pH Strips: W3056

MANGANOUS SULFATE SOLUTION: W2913

Alkaline Iodide Azide: W2914

Sodium Thiosulfate, 0.025N: W2976

NaOH, 1N: WP103989

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP106040

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 8.9                | 8.9        | 8.9     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 8.9                  | 17.8               | 8.9        | 8.9     |

Meter Calibration1: 8.71

Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 760 mmHg

DO Meter BOD fluid reading for winkler comparison: 8.96

## After Incubation

Meter Calibration2: 8.81

Zero DO Reading2: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg



QC BATCH ID: LB129272

INCUBATOR TEMP IN(C): 20.2

INCUBATOR TEMP OUT(C): 20.1

TIME IN: 16:40

TIME OUT: 11:00

DATE IN: 01/26/2024

DATE OUT: 01/31/2024

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB129272BL   | 1          | No       | 6.71       | N/A      | 20.50   | 300           | 8.95          | 8.94        | 0.01      | 0.01              | 0.01              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.90          | 6.59        | 2.31      | 0.46              | 0.5               |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.86          | 4.79        | 4.07      | 0.54              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.79          | 3.89        | 4.9       | 0.49              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.90          | 5.02        | 3.88      | 169               | 174.67            |             |
| GGA          | 2          |          |            |          |         | 6             | 8.87          | 4.90        | 3.97      | 173.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 8.86          | 4.73        | 4.13      | 181.5             |                   |             |
| P1269-01     | 1          | No       | 7.24       | N/A      | 20.00   | 0.5           | 8.82          | 7.50        | -         | 0                 | 271.5             |             |
| P1269-01     | 2          |          |            |          |         | 1             | 8.73          | 7.07        | -         | 0                 |                   |             |
| P1269-01     | 3          |          |            |          |         | 2             | 8.61          | 6.30        | 2.31      | 271.5             |                   |             |
| P1269-01     | 4          |          |            |          |         | 5             | 8.93          | 0.46        | -         | 0                 |                   |             |
| P1269-01     | 5          |          |            |          |         | 10            | 7.81          | 0.36        | -         | 0                 |                   |             |
| P1269-01DUP  | 1          | No       | 7.24       | N/A      | 20.00   | 0.5           | 8.83          | 7.42        | -         | 0                 | 288               |             |
| P1269-01DUP  | 2          |          |            |          |         | 1             | 8.74          | 7.19        | -         | 0                 |                   |             |
| P1269-01DUP  | 3          |          |            |          |         | 2             | 8.61          | 6.19        | 2.42      | 288               |                   |             |
| P1269-01DUP  | 4          |          |            |          |         | 5             | 8.90          | 0.47        | -         | 0                 |                   |             |
| P1269-01DUP  | 5          |          |            |          |         | 10            | 7.83          | 0.34        | -         | 0                 |                   |             |
| P1269-05     | 1          | No       | 5.31       | 6.74     | 20.00   | 0.01          | 8.77          | 7.73        | -         | 0                 | 5550              | pH Adjusted |
| P1269-05     | 2          |          |            |          |         | 0.05          | 8.72          | 7.35        | -         | 0                 |                   |             |
| P1269-05     | 3          |          |            |          |         | 0.1           | 8.65          | 5.19        | 3.46      | 8880              |                   |             |
| P1269-05     | 4          |          |            |          |         | 0.5           | 8.40          | 4.20        | 4.2       | 2220              |                   |             |
| P1269-05     | 5          |          |            |          |         | 1             | 7.87          | 0.53        | -         | 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)

26129272

WorkList Name : bod50126      WorkList ID : 177434      Department : Wet-Chemistry      Date : 01-26-2024 13:31:01

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| P1269-01 | EFFLUENT        | Water  | BOD5 | Cool 4 deg C | HOLL01   | D12                         | 01/26/2024   | SM5210 B |
| P1269-05 | INFLUENT        | Water  | BOD5 | Cool 4 deg C | HOLL01   | D12                         | 01/26/2024   | SM5210 B |

Date/Time 01/26/2024 15:15  
Raw Sample Received by: RM CWC  
Raw Sample Relinquished by: J. CWC

Date/Time 01/26/2024 16:30  
Raw Sample Received by: J. CWC  
Raw Sample Relinquished by: J. CWC