

# BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 09/25/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP114920

QC BATCH ID: LB137318

BOD Water: WP114908

Starch: W3149

Sulfuric acid, 1N: WP112832

POLYSEED: WP114910

GGA: WP114909

Chlorine Strips: W3155

pH Strips: W3215

| Lab SampleID | Client ID | Bottle No. | VOL. ML | Initial Reading (ML) | Final Reading (ML) | Difference | Average |
|--------------|-----------|------------|---------|----------------------|--------------------|------------|---------|
| WINKLER 1    | WINKLER 1 | 1          | 300     | 0.0                  | 9.6                | 9.6        | 9.6     |
| WINKLER 2    | WINKLER 2 | 2          | 300     | 9.8                  | 19.4               | 9.6        | 9.6     |

Meter Calibration1: 9.15 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.69

## After Incubation

Meter Calibration2: 8.65 Zero DO Reading2: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure2: 760 mmHg

QC BATCH ID: LB137318

INCUBATOR TEMP IN(C): 20.3

INCUBATOR TEMP OUT(C): 19.8

TIME IN: 10:00

TIME OUT: 09:20

DATE IN: 09/25/2025

DATE OUT: 09/30/2025

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB137318BL   | 1          | No       | 6.59       | N/A      | 20.90   | 300           | 9.68          | 9.66        | 0.02      | 0.02              | 0.02              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 9.63          | 6.67        | 2.96      | 0.59              | 0.63              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 9.59          | 4.53        | 5.06      | 0.67              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 9.52          | 3.23        | 6.29      | 0.63              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 9.52          | 5.09        | 4.43      | 190               | 192.83            |             |
| GGA          | 2          |          |            |          |         | 6             | 9.50          | 5.00        | 4.5       | 193.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 9.50          | 4.97        | 4.53      | 195               |                   |             |
| Q3168-05     | 1          | No       | 5.77       | 6.81     | 20.20   | 5             | 9.61          | 7.60        | 2.01      | 82.8              | 72.22             | pH Adjusted |
| Q3168-05     | 2          |          |            |          |         | 20            | 9.52          | 4.78        | 4.74      | 61.65             |                   |             |
| Q3168-05     | 3          |          |            |          |         | 50            | 8.93          | 0.24        | -         | 0                 |                   |             |
| Q3168-05     | 4          |          |            |          |         | 150           | 7.27          | 0.19        | -         | 0                 |                   |             |
| Q3168-06     | 1          | No       | 6.32       | 6.92     | 20.20   | 5             | 9.59          | 6.98        | 2.61      | 118.8             | 107.1             | pH Adjusted |
| Q3168-06     | 2          |          |            |          |         | 20            | 9.42          | 2.43        | 6.99      | 95.4              |                   |             |
| Q3168-06     | 3          |          |            |          |         | 50            | 8.71          | 0.20        | -         | 0                 |                   |             |
| Q3168-06     | 4          |          |            |          |         | 150           | 7.21          | 0.12        | -         | 0                 |                   |             |
| Q3180-02     | 1          | No       | 6.76       | N/A      | 20.30   | 5             | 9.41          | 2.83        | 6.58      | 3570              | 3570              |             |
| Q3180-02     | 2          |          |            |          |         | 10            | 9.35          | 0.11        | -         | 0                 |                   |             |
| Q3180-02     | 3          |          |            |          |         | 20            | 9.14          | 0.09        | -         | 0                 |                   |             |
| Q3180-02     | 4          |          |            |          |         | 30            | 9.03          | 0.07        | -         | 0                 |                   |             |
| Q3180-02DUP  | 1          | No       | 6.76       | N/A      | 20.30   | 5             | 9.42          | 2.99        | 6.43      | 3480              | 3480              |             |
| Q3180-02DUP  | 2          |          |            |          |         | 10            | 9.36          | 0.15        | -         | 0                 |                   |             |
| Q3180-02DUP  | 3          |          |            |          |         | 20            | 9.12          | 0.12        | -         | 0                 |                   |             |
| Q3180-02DUP  | 4          |          |            |          |         | 30            | 9.04          | 0.10        | -         | 0                 |                   |             |
| Q3184-01     | 1          | No       | 7.67       | 7.31     | 20.50   | 1             | 9.45          | 7.40        | 2.05      | 42600             | 16504.5           | pH Adjusted |
| Q3184-01     | 2          |          |            |          |         | 5             | 9.34          | 6.67        | 2.67      | 12240             |                   |             |
| Q3184-01     | 3          |          |            |          |         | 10            | 9.27          | 6.42        | 2.85      | 6660              |                   |             |
| Q3184-01     | 4          |          |            |          |         | 50            | 9.17          | 1.01        | 8.16      | 4518              |                   |             |
| Q3184-01     | 5          |          |            |          |         | 100           | 9.01          | 0.46        | -         | 0                 |                   |             |
| Q3184-05     | 1          | No       | 4.91       | 7.01     | 20.30   | 1             | 9.46          | 7.76        | -         | 0                 | 5370              | pH Adjusted |
| Q3184-05     | 2          |          |            |          |         | 5             | 9.42          | 7.40        | 2.02      | 8340              |                   |             |
| Q3184-05     | 3          |          |            |          |         | 10            | 9.39          | 7.04        | 2.35      | 5160              |                   |             |
| Q3184-05     | 4          |          |            |          |         | 50            | 9.21          | 4.23        | 4.98      | 2610              |                   |             |
| Q3184-05     | 5          |          |            |          |         | 100           | 8.90          | 0.94        | -         | 0                 |                   |             |
| Q3202-01     | 1          | No       | 5.99       | 7.09     | 20.10   | 5             | 9.36          | 8.89        | -         | 0                 |                   | pH Adjusted |
| Q3202-01     | 2          |          |            |          |         | 20            | 9.24          | 8.81        | -         | 0                 |                   |             |
| Q3202-01     | 3          |          |            |          |         | 50            | 9.07          | 8.65        | -         | 0                 |                   |             |
| Q3202-01     | 4          |          |            |          |         | 150           | 8.25          | 8.11        | -         | 0                 |                   |             |
| Q3202-03     | 1          | No       | 5.46       | 6.85     | 20.10   | 5             | 9.60          | 8.69        | -         | 0                 |                   | pH Adjusted |
| Q3202-03     | 2          |          |            |          |         | 20            | 9.44          | 8.39        | -         | 0                 |                   |             |
| Q3202-03     | 3          |          |            |          |         | 50            | 9.35          | 8.27        | -         | 0                 |                   |             |
| Q3202-03     | 4          |          |            |          |         | 150           | 8.44          | 8.16        | -         | 0                 |                   |             |

|          |   |    |      |      |       |     |      |      |      |       |       |             |
|----------|---|----|------|------|-------|-----|------|------|------|-------|-------|-------------|
| Q3202-05 | 1 | No | 5.84 | 6.74 | 20.00 | 5   | 9.63 | 8.78 | -    | 0     |       |             |
| Q3202-05 | 2 |    |      |      |       | 20  | 9.60 | 8.51 | -    | 0     |       |             |
| Q3202-05 | 3 |    |      |      |       | 50  | 9.57 | 8.40 | -    | 0     |       |             |
| Q3202-05 | 4 |    |      |      |       | 150 | 8.97 | 7.49 | -    | 0     |       |             |
| Q3202-07 | 1 | No | 5.94 | 6.99 | 20.00 | 5   | 9.65 | 8.86 | -    | 0     |       | pH Adjusted |
| Q3202-07 | 2 |    |      |      |       | 20  | 9.59 | 8.60 | -    | 0     |       |             |
| Q3202-07 | 3 |    |      |      |       | 50  | 9.33 | 8.29 | -    | 0     |       |             |
| Q3202-07 | 4 |    |      |      |       | 150 | 8.07 | 7.98 | -    | 0     |       |             |
| Q3202-09 | 1 | No | 5.83 | 7.23 | 20.00 | 5   | 9.61 | 8.88 | -    | 0     |       | pH Adjusted |
| Q3202-09 | 2 |    |      |      |       | 20  | 9.57 | 8.68 | -    | 0     |       |             |
| Q3202-09 | 3 |    |      |      |       | 50  | 9.45 | 8.27 | -    | 0     |       |             |
| Q3202-09 | 4 |    |      |      |       | 150 | 8.68 | 8.12 | -    | 0     |       |             |
| Q3202-11 | 1 | No | 6.44 | 6.70 | 20.00 | 5   | 9.55 | 7.56 | -    | 0     | 37.06 | pH Adjusted |
| Q3202-11 | 2 |    |      |      |       | 20  | 9.47 | 6.03 | 3.44 | 42.15 |       |             |
| Q3202-11 | 3 |    |      |      |       | 50  | 9.09 | 3.13 | 5.96 | 31.98 |       |             |
| Q3202-11 | 4 |    |      |      |       | 150 | 6.94 | 0.96 | -    | 0     |       |             |
| Q3202-17 | 1 | No | 6.23 | 6.59 | 20.00 | 5   | 9.60 | 7.62 | -    | 0     | 45.05 | pH Adjusted |
| Q3202-17 | 2 |    |      |      |       | 20  | 8.89 | 4.89 | 4    | 50.55 |       |             |
| Q3202-17 | 3 |    |      |      |       | 50  | 8.30 | 1.08 | 7.22 | 39.54 |       |             |
| Q3202-17 | 4 |    |      |      |       | 150 | 6.02 | 0.49 | -    | 0     |       |             |

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

**NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.**

# WORKLIST(Hardcopy Internal Chain)

6137318

WorkList Name : bod5-9-24

WorkList ID : 192047

Department : Wet-Chemistry

Date : 09-24-2025 12:51:32

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3168-05 | TOTES COMP#1    | Water  | BOD5 | Cool 4 deg C | PSEG03   | J11                         | 09/23/2025   | SM5210 B |
| Q3168-06 | TOTES COMP#2    | Water  | BOD5 | Cool 4 deg C | PSEG03   | J11                         | 09/23/2025   | SM5210 B |
| Q3180-02 | Comp            | Water  | BOD5 | Cool 4 deg C | ARAM01   | J51                         | 09/24/2025   | SM5210 B |
| Q3184-01 | EFFLUENT        | Water  | BOD5 | Cool 4 deg C | HOLL01   | J52                         | 09/24/2025   | SM5210 B |
| Q3184-05 | INFLUENT        | Water  | BOD5 | Cool 4 deg C | HOLL01   | J52                         | 09/24/2025   | SM5210 B |

Date/Time 09/25/2025 07:25  
 Raw Sample Received by: RH cws  
 Raw Sample Relinquished by: RC (CWS)

Date/Time 09/25/2025 10:10  
 Raw Sample Received by: RC (CWS)  
 Raw Sample Relinquished by: RH cws

6137318

## WORKLIST(Hardcopy Internal Chain)

WorkList Name : bod5-09-25

WorkList ID : 192093

Department : Wet-Chemistry

Date : 09-25-2025 07:15:18

| Sample   | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3202-01 | SY-6            | Water  | BOD5 | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM5210 B |
| Q3202-03 | SY-2R           | Water  | BOD5 | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM5210 B |
| Q3202-05 | SY-2D           | Water  | BOD5 | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM5210 B |
| Q3202-07 | SY-5            | Water  | BOD5 | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM5210 B |
| Q3202-09 | SY-3DD          | Water  | BOD5 | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM5210 B |
| Q3202-11 | SY-3D           | Water  | BOD5 | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM5210 B |
| Q3202-17 | SY-3            | Water  | BOD5 | Cool 4 deg C | LOCK01   | I63                         | 09/23/2025   | SM5210 B |

Date/Time 09/25/2025 07:25  
Raw Sample Received by: RM (WC)  
Raw Sample Relinquished by: JR (WC)

Date/Time 09/20/25 10.10  
Raw Sample Received by: Joleen  
Raw Sample Relinquished by: RM (WC)