

# BOD5 LOG

ANALYST: ketankumar

SUPERVISOR: jignesh

Analysis Date: 06/08/2022

QC BATCH ID: LB120568

BOD Water: WP97223

Starch: W2766

Sulfuric acid, 1N: WP94324

POLYSEED: WP97225

GGA: WP97224

Chlorine Strips: W2011

pH Strips: W2716

MANGANOUS SULFATE SOLUTION: W2767

Alkaline Iodide Azide: W2742

Sodium Thiosulfate, 0.025N: W2843

NaOH, 1N: WP94570

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP97024

| 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: 8.76

Barometric Pressure1: 765 mmHg

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

Winkler titrated BOD fluid DO reading1: 8.85

## After Incubation

Meter Calibration2: 8.70

Barometric Pressure2: 765 mmHg

Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Winkler titrated BOD fluid DO reading2: 8.70



QC BATCH ID: LB120568

INCUBATOR TEMP IN(C): 20.5

INCUBATOR TEMP OUT(C): 20.3

TIME IN: 17:50

TIME OUT: 11:30

DATE IN: 06/08/2022

DATE OUT: 06/13/2022

| 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     |
|--------------|------------|----------|------------|----------|---------|---------------|---------------|-------------|-----------|-------------------|-------------------|-------------|
| LB120568BL   | 1          | No       | 6.4        | N/A      | 21.20   | 300           | 8.83          | 8.68        | 0.15      | 0.15              | 0.15              |             |
| POLYSEED     | 1          |          |            |          |         | 10            | 8.80          | 4.20        | 4.6       | 0.92              | 0.79              |             |
| POLYSEED     | 2          |          |            |          |         | 15            | 8.76          | 3.15        | 5.61      | 0.75              |                   |             |
| POLYSEED     | 3          |          |            |          |         | 20            | 8.74          | 1.89        | 6.85      | 0.69              |                   |             |
| GGA          | 1          |          |            |          |         | 6             | 8.79          | 4.25        | 4.54      | 187.5             | 192.5             |             |
| GGA          | 2          |          |            |          |         | 6             | 8.77          | 3.97        | 4.8       | 200.5             |                   |             |
| GGA          | 3          |          |            |          |         | 6             | 8.75          | 4.17        | 4.58      | 189.5             |                   |             |
| N3235-02     | 1          | No       | 7.04       | N/A      | 21.60   | 5             | 8.75          | 5.99        | 2.76      | 118.2             | 85.28             |             |
| N3235-02     | 2          |          |            |          |         | 20            | 8.73          | 4.45        | 4.28      | 52.35             |                   |             |
| N3235-02     | 3          |          |            |          |         | 50            | 8.72          | 0.55        | -         | 0                 |                   |             |
| N3235-02     | 4          |          |            |          |         | 150           | 8.67          | 0.30        | -         | 0                 |                   |             |
| N3238-01     | 1          | No       | 7.70       | N/A      | 20.20   | 5             | 8.75          | 0.88        | -         | 0                 |                   |             |
| N3238-01     | 2          |          |            |          |         | 20            | 8.67          | 0.50        | -         | 0                 |                   |             |
| N3238-01     | 3          |          |            |          |         | 50            | 8.65          | 0.31        | -         | 0                 |                   |             |
| N3238-01     | 4          |          |            |          |         | 150           | 8.64          | 0.29        | -         | 0                 |                   |             |
| N3240-01     | 1          | No       | 7.34       | N/A      | 20.10   | 5             | 8.60          | 4.05        | 4.55      | 225.6             | 225.6             |             |
| N3240-01     | 2          |          |            |          |         | 20            | 8.45          | 0.55        | -         | 0                 |                   |             |
| N3240-01     | 3          |          |            |          |         | 50            | 8.23          | 0.30        | -         | 0                 |                   |             |
| N3240-01     | 4          |          |            |          |         | 150           | 7.32          | 0.26        | -         | 0                 |                   |             |
| N3241-01     | 1          | No       | 6.90       | N/A      | 20.20   | 5             | 8.68          | 0.31        | -         | 0                 |                   |             |
| N3241-01     | 2          |          |            |          |         | 20            | 8.42          | 0.26        | -         | 0                 |                   |             |
| N3241-01     | 3          |          |            |          |         | 50            | 7.86          | 0.25        | -         | 0                 |                   |             |
| N3241-01     | 4          |          |            |          |         | 150           | 5.42          | 0.20        | -         | 0                 |                   |             |
| N3242-01     | 1          | No       | 7.52       | N/A      | 20.40   | 5             | 8.71          | 5.22        | 3.49      | 162               | 72.59             |             |
| N3242-01     | 2          |          |            |          |         | 20            | 8.63          | 5.21        | 3.42      | 39.45             |                   |             |
| N3242-01     | 3          |          |            |          |         | 50            | 8.61          | 5.10        | 3.51      | 16.32             |                   |             |
| N3242-01     | 4          |          |            |          |         | 150           | 8.60          | 0.28        | -         | 0                 |                   |             |
| N3243-01     | 1          | No       | 8.69       | 7.20     | 20.10   | 5             | 8.55          | 0.22        | -         | 0                 |                   | pH Adjusted |
| N3243-01     | 2          |          |            |          |         | 20            | 8.32          | 0.20        | -         | 0                 |                   |             |
| N3243-01     | 3          |          |            |          |         | 50            | 7.85          | 0.16        | -         | 0                 |                   |             |
| N3243-01     | 4          |          |            |          |         | 150           | 5.70          | 0.12        | -         | 0                 |                   |             |
| N3244-01     | 1          | No       | 7.18       | N/A      | 20.20   | 5             | 8.52          | 0.81        | -         | 0                 |                   |             |
| N3244-01     | 2          |          |            |          |         | 20            | 8.32          | 0.18        | -         | 0                 |                   |             |
| N3244-01     | 3          |          |            |          |         | 50            | 7.72          | 0.16        | -         | 0                 |                   |             |
| N3244-01     | 4          |          |            |          |         | 150           | 5.46          | 0.13        | -         | 0                 |                   |             |
| N3258-01     | 1          | No       | 8.20       | 7.20     | 21.30   | 5             | 8.71          | 7.52        | -         | 0                 |                   | pH Adjusted |
| N3258-01     | 2          |          |            |          |         | 20            | 8.58          | 7.36        | -         | 0                 |                   |             |
| N3258-01     | 3          |          |            |          |         | 50            | 8.55          | 6.99        | -         | 0                 |                   |             |
| N3258-01     | 4          |          |            |          |         | 150           | 8.53          | 6.85        | -         | 0                 |                   |             |
| N3258-01DUP  | 1          | No       | 8.20       | 7.20     | 21.30   | 5             | 8.72          | 7.55        | -         | 0                 |                   | pH Adjusted |
| N3258-01DUP  | 2          |          |            |          |         | 20            | 8.60          | 7.38        | -         | 0                 |                   |             |

|             |   |    |      |     |       |     |      |      |   |   |  |  |
|-------------|---|----|------|-----|-------|-----|------|------|---|---|--|--|
| N3258-01DUP | 3 |    |      |     |       | 50  | 8.58 | 7.00 | - | 0 |  |  |
| N3258-01DUP | 4 |    |      |     |       | 150 | 8.55 | 6.87 | - | 0 |  |  |
| N3263-01    | 1 | No | 7.40 | N/A | 21.40 | 5   | 8.61 | 8.45 | - | 0 |  |  |
| N3263-01    | 2 |    |      |     |       | 20  | 8.58 | 8.43 | - | 0 |  |  |
| N3263-01    | 3 |    |      |     |       | 50  | 8.57 | 8.41 | - | 0 |  |  |
| N3263-01    | 4 |    |      |     |       | 150 | 8.55 | 8.40 | - | 0 |  |  |
| N3263-03    | 1 | No | 6.98 | N/A | 20.60 | 5   | 8.58 | 7.28 | - | 0 |  |  |
| N3263-03    | 2 |    |      |     |       | 20  | 8.56 | 7.03 | - | 0 |  |  |
| N3263-03    | 3 |    |      |     |       | 50  | 8.54 | 6.89 | - | 0 |  |  |
| N3263-03    | 4 |    |      |     |       | 150 | 8.52 | 6.73 | - | 0 |  |  |
| N3263-05    | 1 | No | 7.05 | N/A | 20.80 | 5   | 8.52 | 7.56 | - | 0 |  |  |
| N3263-05    | 2 |    |      |     |       | 20  | 8.49 | 7.44 | - | 0 |  |  |
| N3263-05    | 3 |    |      |     |       | 50  | 8.48 | 6.66 | - | 0 |  |  |
| N3263-05    | 4 |    |      |     |       | 150 | 8.45 | 6.58 | - | 0 |  |  |

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

# WORKLIST(Hardcopy Internal Chain)

LB120568

WorkList Name : BOD6822-1      WorkList ID : 160360      Department : Wet-Chemistry      Date : 06-08-2022 15:15:21

| Due Date   | Matrix | Sample   | Test | Raw Sample   |          |                  | Customer Sample    | Collect Date | Method   |
|------------|--------|----------|------|--------------|----------|------------------|--------------------|--------------|----------|
|            |        |          |      | Preservative | Customer | Storage Location |                    |              |          |
| 06/10/2022 | Water  | N3235-02 | BOD5 | Cool 4 deg C | ARAM01   | N11              | COMP               | 06/08/2022   | SM5210 B |
| 06/09/2022 | Water  | N3238-01 | BOD5 | Cool 4 deg C | GARD04   | N11              | 220607063-03       | 06/07/2022   | SM5210 B |
| 06/09/2022 | Water  | N3240-01 | BOD5 | Cool 4 deg C | GARD04   | N11              | 220607063-01       | 06/07/2022   | SM5210 B |
| 06/09/2022 | Water  | N3241-01 | BOD5 | Cool 4 deg C | GARD04   | N11              | 220607063-06       | 06/07/2022   | SM5210 B |
| 06/09/2022 | Water  | N3242-01 | BOD5 | Cool 4 deg C | GARD04   | N11              | 220607064-02       | 06/07/2022   | SM5210 B |
| 06/09/2022 | Water  | N3243-01 | BOD5 | Cool 4 deg C | GARD04   | N11              | 220607063-02       | 06/07/2022   | SM5210 B |
| 06/09/2022 | Water  | N3244-01 | BOD5 | Cool 4 deg C | GARD04   | N11              | 220607063-04       | 06/07/2022   | SM5210 B |
| 06/10/2022 | Water  | N3258-01 | BOD5 | Cool 4 deg C | INFR01   | N11              | WEEKLY-OUTFALL-002 | 06/08/2022   | SM5210 B |
| 06/10/2022 | Water  | N3263-01 | BOD5 | Cool 4 deg C | PSEG04   | P11              | DSW002             | 06/08/2022   | SM5210 B |
| 06/10/2022 | Water  | N3263-03 | BOD5 | Cool 4 deg C | PSEG04   | P11              | DSW001             | 06/08/2022   | SM5210 B |
| 06/10/2022 | Water  | N3263-05 | BOD5 | Cool 4 deg C | PSEG04   | P11              | RWS003             | 06/08/2022   | SM5210 B |

Date/Time 06/08/22 16:50  
 Raw Sample Received by: KS(wc)  
 Raw Sample Relinquished by: A(c)

Date/Time 06/08/22 17:55  
 Raw Sample Received by: A(c)  
 Raw Sample Relinquished by: KS(wc)