# CERTIFICATE OF ANALYSIS



**Batch No:** **26-49491**
*Final Report* **373609**

*Client:* **GWM Water**
*Contact:* **Wastewater Quality Officer**
*Address:* PO Box 481
HORSHAM
VIC
3402

*Laboratory* Scoresby Laboratory
*Address* Caribbean Business Park,
22 Dalmore Drive,
Scoresby,
VIC 3179
*Phone* 03 8756 8000
*Fax* 03 9763 1862
Contact: Carmin De Palma
Client Manager
Carmin.DePalma@alsglobal.com

*PO No:* **Not Available**
*Sampler Name:* **Matt Williams**
*ALS Program Ref:* **TPHORSHAM**
*Program Description:* **Horsham Wastewater Treatment Plant Monitoring**
*Client Ref:* **Horsham WWTP Discharge**

Date Sampled: **06-Aug-2026**
Date Samples Received: **07-Aug-2026**
*Date Issued:* **13-Aug-2026**

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service .

| *Analysis* | | *Method* | *Laboratory* | *Analysis* | | *Method* | *Laboratory* |
|---|---|---|---|---|---|---|---|
| DO | # | CLIENT | Scoresby | Temp. | # | CLIENT | Scoresby |
| BOD5 | | WP030 | Scoresby | Colilert (2000) | | MM514 | Scoresby |
| EC | | WA010 | Scoresby | TCN | | WK062 | Scoresby |
| NH3 as N | | WK055G | Scoresby | NO2-N | | EK057G | Scoresby |
| NO3-N | | EK058GV | Scoresby | NOX as N | | EK058V & 059GV | Scoresby |
| pH | | WA005 | Scoresby | SS at 104+/- 2°C | | WA025 | Scoresby |
| TKN/TP (HL) | | WK061A 067A | Scoresby | Turbidity | | WA045 | Scoresby |

*Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.*
Samples tested for Colilert (MM514), Plate Count (MM524) or Enterolert (MM517),sampled before 11am the previous day will be outside holding time

*Signatories*

| *Name* | *Title* | *Name* | *Title* |
|---|---|---|---|
| **Carmin De Palma** | **Client Manager** | **Chatura Perera** | **Team Leader Nutrients** |
| **Mary Semeredi** | **Analyst** | **Nazish Shehzad** | **Analyst** |

Samples not collected by ALS and are tested as received.

Calculated results are based on raw data.

Samples are tested within holding time unless otherwise stated.

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|---|---|
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| *ALS Program Ref:* | **TPHORSHAM** |
| *Program Description:* | **Horsham Wastewater Treatment Plant Monitoring** |

*For holding time compliance, method uncertainty, quality control and brief method summary, please refer to accompanying QC report.When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference. LOR = Limit of Reporting*

| Sample No | Site Code | Site Description | Sample Type | Sampled Date/Time |
|---|---|---|---|---|
| 12852869 | SLHOR001 | 46238 - Final Lagoon Effluent (Winter Storage) Horsham | WATER | 06/08/26 10:00 |
| 12852878 | SLHOR002 | 46238 - Final Discharge_Post DAF_Horsham WWTP | WATER | 06/08/26 10:30 |
| 12852887 | SOHOR002 | 46238 - VIDA Storage (700 ML) Effluent | WATER | 06/08/26 12:30 |

| *Analysis - Analyte* | *Sample No. Site Code Units* | *LOR* | 12852869 SLHOR001 | 12852878 SLHOR002 | 12852887 SOHOR002 |
|---|---|---|---|---|---|
| Temp. - Water Temperature (CS) | °C | - | 11.0 | 10.5 | 10.5 |
| DO - Dissolved Oxygen (CS) | mg/L | - | 9.0 | 5.0 | 8.0 |
| pH - pH, units | Units | - | 7.9 | 7.2 | 8.1 |
| BOD5 - Biochemical Oxygen Demand, 5 Day | mg/L | 2 | 3 | 53 | <2 |
| TKN/TP (HL) - Total Kjeldahl Nitrogen as N | mg N / L | 0.1 | 7.9 | 8.9 | 2.2 |
| TKN/TP (HL) - Phosphorus, total as P | mg P / L | 0.05 | 5.5 | 9.9 | 3.8 |
| SS at 104+/- 2°C - Suspended Solids | mg/L | 2 | 4 | 27 | 6 |
| EC - Electrical Conductivity @ 25C | uS/cm | 2 | 1400 | 1400 | 1800 |
| Turbidity - Turbidity, NTU | NTU | 0.1 | 5.9 | 24 | 7.2 |
| TCN - Total Nitrogen as N (Calc) | mg/L | 0.1 | 8.7 | 17 | 3.7 |
| NH3 as N - Ammonia, as N | mg N / L | 0.1 | 6.1 | 7.8 | 0.6 |
| NOX as N - Nitrate + Nitrite, as N | mg N / L | 0.01 | 0.82 | 8.2 | 1.5 |
| NO3-N - Nitrate, as N | mg N / L | 0.01 | 0.69 | 1.8 | 1.3 |
| NO2-N - Nitrite, as N | mg N / L | 0.01 | 0.13 | 6.4 | 0.15 |
| Colilert (2000) - E.coli | MPN/100mL | 0 | 16 | 1 | 3 |

| Sample No | Site Code | Site Description | Sample Type | Sampled Date/Time |
|---|---|---|---|---|
| 12852896 | SOHOR005 | 46238 - Wimmera River - Upstream | WATER | 06/08/26 11:00 |
| 12852905 | SOHOR010 | 46238 - Wimmera River (Downstream) Horsham | WATER | 06/08/26 11:30 |
| 12852914 | SOHOR011 | 46238 - Wimmera River-Discharge Point Horsham | WATER | 06/08/26 12:00 |

| *Analysis - Analyte* | *Sample No. Site Code Units* | *LOR* | 12852896 SOHOR005 | 12852905 SOHOR010 | 12852914 SOHOR011 |
|---|---|---|---|---|---|
| Temp. - Water Temperature (CS) | °C | - | 10.0 | 10.0 | 10.0 |
| DO - Dissolved Oxygen (CS) | mg/L | - | 7.0 | 8.0 | 7.0 |
| pH - pH, units | Units | - | 7.3 | 7.4 | 7.5 |
| BOD5 - Biochemical Oxygen Demand, 5 Day | mg/L | 2 | <2 | <2 | 3 |
| TKN/TP (HL) - Total Kjeldahl Nitrogen as N | mg N / L | 0.1 | 1.6 | 1.7 | 1.6 |
| TKN/TP (HL) - Phosphorus, total as P | mg P / L | 0.05 | 0.14 | 0.66 | 0.26 |
| SS at 104+/- 2°C - Suspended Solids | mg/L | 2 | 26 | 13 | 15 |
| EC - Electrical Conductivity @ 25C | uS/cm | 2 | 1700 | 1700 | 1800 |
| Turbidity - Turbidity, NTU | NTU | 0.1 | 54 | 47 | 43 |
| TCN - Total Nitrogen as N (Calc) | mg/L | 0.1 | 2.3 | 2.6 | 2.5 |
| NH3 as N - Ammonia, as N | mg N / L | 0.1 | 0.2 | 0.2 | 0.2 |
| NOX as N - Nitrate + Nitrite, as N | mg N / L | 0.01 | 0.75 | 0.93 | 0.86 |
| NO3-N - Nitrate, as N | mg N / L | 0.01 | 0.72 | 0.87 | 0.83 |
| NO2-N - Nitrite, as N | mg N / L | 0.01 | 0.04 | 0.06 | 0.04 |
| Colilert (2000) - E.coli | MPN/100mL | 0 | 34 | 60 | 35 |

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| *Program Description:* | **Horsham Wastewater Treatment Plant Monitoring** |

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| Sample No | Site Code | Site Description | Sample Type | Sampled Date/Time |
|---|---|---|---|---|
| 12852923 | SOHOR014 | 46238 - McKenzie River - Upstream Horsham | WATER | 06/08/26 13:00 |

| *Analysis - Analyte* | *Sample No. Site Code Units* | *LOR* | 12852923 SOHOR014 |
|---|---|---|---|
| Temp. - Water Temperature (CS) | °C | - | 9.5 |
| DO - Dissolved Oxygen (CS) | mg/L | - | 4.0 |
| pH - pH, units | Units | - | 6.8 |
| BOD5 - Biochemical Oxygen Demand, 5 Day | mg/L | 2 | <3 LDIL |
| TKN/TP (HL) - Total Kjeldahl Nitrogen as N | mg N / L | 0.1 | 3.1 |
| TKN/TP (HL) - Phosphorus, total as P | mg P / L | 0.05 | 0.70 |
| SS at 104+/- 2°C - Suspended Solids | mg/L | 2 | <2 |
| EC - Electrical Conductivity @ 25C | uS/cm | 2 | 260 |
| Turbidity - Turbidity, NTU | NTU | 0.1 | 86 |
| TCN - Total Nitrogen as N (Calc) | mg/L | 0.1 | 3.1 |
| NH3 as N - Ammonia, as N | mg N / L | 0.1 | <0.1 |
| NOX as N - Nitrate + Nitrite, as N | mg N / L | 0.01 | <0.01 |
| NO3-N - Nitrate, as N | mg N / L | 0.01 | <0.01 |
| NO2-N - Nitrite, as N | mg N / L | 0.01 | <0.01 |
| Colilert (2000) - E.coli | MPN/100mL | 0 | 4 |

LDIL Level of reporting raised due to necessary dilution

*A blank space indicates no test performed.*