



CERTIFICATE OF ANALYSIS

Batch No: **26-49493**

Final Report

374852

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Client: **GWM Water**

Contact: **Wastewater Quality Officer**

Address: PO Box 481
HORSHAM
VIC
3402

Laboratory
Address

Scoresby Laboratory
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22 Dalmore Drive,
Scoresby,
VIC 3179

Phone
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03 8756 8000
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Contact:

Carmin De Palma
Client Manager
Carmin.DePalma@alsglobal.com

PO No: **Not Available**

Date Sampled: **13-Aug-2026**

Sampler Name: **Matt Williams**

Date Samples Received: **14-Aug-2026**

ALS Program Ref: **TPHORSHAM**

Date Issued: **19-Aug-2026**

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

Client Ref: **Horsham WWTP Discharge**

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	EC	# CLIENT	Scoresby
pH	# 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	Hoa T. Nguyen	Analyst
Joseph De Alwis	Analyst	Thanh U. Nguyen	Analyst
Nazish Shehzad	Analyst	Tanya Dukhno	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.

Results contained within this report relate only to the samples tested.

The report shall not be reproduced, except in full.

Batch No: 26-49493
 Report Number: 374852
 Client: GWM Water
 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	
12852941	SLHOR001	46245 - Final Lagoon Effluent (Winter Storage) Horsham	WATER	13/08/26	10:00
12852950	SLHOR002	46245 - Final Discharge_Post DAF_Horsham WWTP	WATER	13/08/26	09:45
12852959	SOHOR002	46245 - VIDA Storage (700 ML) Effluent	WATER	13/08/26	10:30

Analysis - Analyte			Sample No. Site Code Units	LOR	12852941 SLHOR001	12852950 SLHOR002	12852959 SOHOR002
Temp. - Water Temperature (CS)			°C	-	9.5	10.0	10.0
pH - pH (CS)			Units	-	7.60		
EC - Electrical Conductivity (CS)			uS/cm	-	1300		
DO - Dissolved Oxygen (CS)			mg/L	-	9.0	5.0	8.0
pH - pH, units			Units	-		7.3	8.1
BOD5 - Biochemical Oxygen Demand, 5 Day			mg/L	2	<2	16	<2
TKN/TP (HL) - Total Kjeldahl Nitrogen as N			mg N / L	0.1	8.3	5.7	1.9
TKN/TP (HL) - Phosphorus, total as P			mg P / L	0.05	6.0	4.1	3.9
SS at 104+/- 2°C - Suspended Solids			mg/L	2	4	5	2
EC - Electrical Conductivity @ 25C			uS/cm	2		1400	1800
Turbidity - Turbidity, NTU			NTU	0.1	9.1	1.9	7.7
TCN - Total Nitrogen as N (Calc)			mg/L	0.1	10	7.6	3.4
NH3 as N - Ammonia, as N			mg N / L	0.1	5.8	4.2	0.5
NOX as N - Nitrate + Nitrite, as N			mg N / L	0.01	1.8	1.9	1.5
NO3-N - Nitrate, as N			mg N / L	0.01	1.7	1.8	1.4
NO2-N - Nitrite, as N			mg N / L	0.01	0.15	0.06	0.11
Colilert (2000) - E.coli			MPN/100mL	0	4	6	3

Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time	
12852968	SOHOR005	46245 - Wimmera River - Upstream	WATER	13/08/26	09:15
12852977	SOHOR010	46245 - Wimmera River (Downstream) Horsham	WATER	13/08/26	08:30
12852986	SOHOR011	46245 - Wimmera River-Discharge Point Horsham	WATER	13/08/26	08:50

Analysis - Analyte			Sample No. Site Code Units	LOR	12852968 SOHOR005	12852977 SOHOR010	12852986 SOHOR011
Temp. - Water Temperature (CS)			°C	-	9.5	9.0	9.5
pH - pH (CS)			Units	-			7.50
EC - Electrical Conductivity (CS)			uS/cm	-			1100
DO - Dissolved Oxygen (CS)			mg/L	-		9.0	7.0
pH - pH, units			Units	-	7.4	7.3	7.8
BOD5 - Biochemical Oxygen Demand, 5 Day			mg/L	2	<2	<2	6
TKN/TP (HL) - Total Kjeldahl Nitrogen as N			mg N / L	0.1	1.2	1.0	1.9
TKN/TP (HL) - Phosphorus, total as P			mg P / L	0.05	0.20	0.57	3.6
SS at 104+/- 2°C - Suspended Solids			mg/L	2	21	27	11
EC - Electrical Conductivity @ 25C			uS/cm	2	2400	2300	1900
Turbidity - Turbidity, NTU			NTU	0.1	40	39	14
TCN - Total Nitrogen as N (Calc)			mg/L	0.1	1.6	1.4	2.7
NH3 as N - Ammonia, as N			mg N / L	0.1	0.2	0.2	0.3
NOX as N - Nitrate + Nitrite, as N			mg N / L	0.01	0.30	0.38	0.82
NO3-N - Nitrate, as N			mg N / L	0.01	0.28	0.35	0.76
NO2-N - Nitrite, as N			mg N / L	0.01	0.02	0.03	0.06
Colilert (2000) - E.coli			MPN/100mL	0	170	120	18



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Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
12852995	SOHOR014	46245 - McKenzie River - Upstream Horsham	WATER	13/08/26 10:15

Analysis - Analyte	Sample No. Site Code Units	LOR	12852995 SOHOR014
Temp. - Water Temperature (CS)	°C	-	11.0
DO - Dissolved Oxygen (CS)	mg/L	-	4.0
pH - pH, units	Units	-	6.9
BOD5 - Biochemical Oxygen Demand, 5 Day	mg/L	2	4
TKN/TP (HL) - Total Kjeldahl Nitrogen as N	mg N / L	0.1	2.3
TKN/TP (HL) - Phosphorus, total as P	mg P / L	0.05	0.65
SS at 104+/- 2°C - Suspended Solids	mg/L	2	7
EC - Electrical Conductivity @ 25C	uS/cm	2	240
Turbidity - Turbidity, NTU	NTU	0.1	130
TCN - Total Nitrogen as N (Calc)	mg/L	0.1	2.3
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	<0.05 LINT
NO3-N - Nitrate, as N	mg N / L	0.01	<0.05 LINT
NO2-N - Nitrite, as N	mg N / L	0.01	<0.05 LINT
Colilert (2000) - E.coli	MPN/100mL	0	150

LINT Level of Reporting raised due to interferences in the sample matrix

A blank space indicates no test performed.