

Certificate of Analysis

Request ID: EAL/E25-00-9473 Report ID: E25-00-9473_EALP1_1 Issue date: 11 September 2025

Client Sample ID:				LD	TWP
EAL Sample ID:				E25-00-9473-0001	E25-00-9473-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	7.88	6.46
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.993	1.28
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	675	868
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	363	302
Chemical Oxygen Demand	mg/L	** APHA 5220-D	<1	86	67
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	95.9	102
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	31.5	52.4
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	57.8	130
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	19.5	26.6
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	105	136
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	57.0	127
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	1.8	1.1
Arsenic	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.003	0.003
Total Nitrogen	mg/L N	Inhouse W4	<0.01	23.6	11.7
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.721	0.834
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	1.02	< 0.005
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	21.6	3.82
Fluoride	mg/L	** Ion Selective Electrode	<0.1	0.39	0.82
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	16000	16100000
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	28.7	261
Turbidity	NTU	APHA 2130	<1	70	200

Notes:

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- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm

Certificate of Analysis

Request ID: EAL/E25-00-9474 Report ID: E25-00-9474_EALP1_1 Issue date: 12 September 2025

Client Sample ID:				MCS01	MCS02	MCS03	MCS04	MCS05
Sample Date:				27 August 2025	27 August 2025	27 August 2025	27 August 2025	27 August 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-9474-0001	E25-00-9474-0002	E25-00-9474-0003	E25-00-9474-0004	E25-00-9474-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
pH	---	APHA 4500-H+ B	---	7.19	7.46	7.36	7.27	7.19
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.256	0.485	0.354	0.316	0.368
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	174	330	241	215	250
Dissolved Oxygen	mg/L	** APHA 4500-O-G (Onsite method preferable)	<1	6.96	6.52	5.98	5.61	5.23
Temperature	Celsius	** Inhouse W40	---	18.6	19.6	18.5	17.6	19.5
Redox Potential	mV	Redox	---	275	282	279	271	289
Total Dissolved Salts	mg/L	** Calculation using EC x 680	<7	174	330	241	215	250
Turbidity	NTU	APHA 2130	<1	26	17	36	57	43
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	11	31	42	69	40
Biochemical Oxygen Demand (BOD5)	mg/L O2	APHA 5210-B	<1	1.55	14.5	13.0	12.4	4.55
Total Nitrogen	mg/L N	Inhouse W4	<0.01	0.325	4.58	2.89	2.28	2.91
Total Phosphorus	mg/L P	Inhouse W4	<0.01	1.86	0.572	0.572	0.657	0.430
Nitrate	mg/L N	APHA 4500 NO3-F	<0.005	0.031	3.82	1.63	0.993	1.45
Ammonia	mg/L N	APHA 4500 NH3-H	<0.005	0.027	0.476	0.307	0.358	1.01
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	400	4900	2900	1600	1700
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	5.06	7.50	5.58	5.06	6.05
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE288618	SE288618	SE288618	SE288618	SE288618
Benzene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	11	7.1	2.8	1.3
Ethylbenzene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	** Subcontracted SGS Laboratories Australia	---	<1	<1	<1	<1	<1
o-xylene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	** Subcontracted SGS Laboratories Australia	---	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	** Subcontracted SGS Laboratories Australia	---	<3	11	7	<3	<3
Napthalene (VOC)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE288618	SE288618	SE288618	SE288618	SE288618
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	<40	<40
Benzene (F0)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE288618	SE288618	SE288618	SE288618	SE288618
LLTRH C10-C14	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH C15-C28	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	130	<100	<100	<100
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	61	<50	<50	<50	<50

Certificate of Analysis

Request ID: EAL/E25-00-9474 Report ID: E25-00-9474_EALP1_1 Issue date: 12 September 2025

Client Sample ID:				MCS01	MCS02	MCS03	MCS04	MCS05
Sample Date:				27 August 2025	27 August 2025	27 August 2025	27 August 2025	27 August 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-9474-0001	E25-00-9474-0002	E25-00-9474-0003	E25-00-9474-0004	E25-00-9474-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
LLTRH >C10-C16	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	53	<50	<50	<50
LLTRH >C16-C34 (F3)	µg/L	** Subcontracted SGS Laboratories Australia	---	130	140	100	110	<100
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	130	<100	<100	<100
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100

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- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW01	MW09	MW11	MW12	MW13
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0001	E25-00-5864-0002	E25-00-5864-0003	E25-00-5864-0004	E25-00-5864-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
pH	---	APHA 4500-H+ B	---	6.21	6.77	6.64	11.16	6.95
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.278	0.539	7.86	4.58	4.27
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	189	367	5348	3115	2904
Dissolved Oxygen	mg/L	** APHA 4500-O-G (Onsite method preferable)	<1	3.09	4.64	2.22	2.12	2.08
Temperature	Celsius	** Inhouse W40	---	19.0	18.5	21.0	20.5	19.5
Redox Potential	mV	Redox	---	274	280	-28	-84	-51
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1	75	192	787	195	770
Biochemical Oxygen Demand (BOD5)	mg/L O2	APHA 5210-B	<1	< 1	< 1	< 1	1.45	1.20
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	24.4	36.2	937	585	608
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	< 0.5	0.999	19.9	33.4	13.7
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	18.3	33.2	352	308	168
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	8.93	31.9	286	< 0.5	138
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	39.4	23.9	2350	1370	1020
Sulfate	mg/L SO4	Total Available - APHA 3125 ICPMS	<9	< 9	54.0	23.0	93.4	19.6
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	n.a.	0.4	100	15	52
Arsenic	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	0.001	0.002	< 0.001	< 0.001
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.318	5.78	25.1	0.219	12.1
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.009	0.204	0.474	0.003	0.269
Nitrate	mg/L N	APHA 4500 NO3-F	<0.005	0.375	0.066	0.012	< 0.005	0.017
Nitrite	mg/L N	APHA 4500 NO2-I	<0.005	< 0.005	< 0.005	< 0.005	0.011	< 0.005
Ammonia	mg/L N	APHA 4500 NH3-H	<0.005	0.032	0.053	4.39	24.9	3.56
Fluoride	mg/L	** Ion Selective Electrode	<0.1	0.12	0.16	0.18	< 0.1	0.26
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	300	200	<100	<100	<100
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	1.60	2.62	7.84	7.01	11.1
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	<40	<40
Benzene (F0)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
LLTRH C10-C14	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH C15-C28	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	120	<100	140
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW01	MW09	MW11	MW12	MW13
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0001	E25-00-5864-0002	E25-00-5864-0003	E25-00-5864-0004	E25-00-5864-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
LLTRH >C10-C16	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH >C16-C34 (F3)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	120	<100	150
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	170	<100	210
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Total Phenol	mg/L	** Subcontracted SGS Laboratories Australia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	---	** Subcontracted SGS Laboratories Australia	---	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen
SGS Report No.	µg/L	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Hexachlorobenzene (HCB)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW01	MW09	MW11	MW12	MW13
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0001	E25-00-5864-0002	E25-00-5864-0003	E25-00-5864-0004	E25-00-5864-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
Total OC	µg/L	** Subcontracted SGS Laboratories Australia	<1	<1	<1	<1	<1	<1
	---	** Subcontracted SGS Laboratories Australia	---	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Dichlorvos	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion ethyl (Parathion)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos ethyl	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos methyl	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
GW Level	---	Ground Water Level	---	1.15	2.06	1.33	0.70	0.98
Turbidity	NTU	APHA 2130	<1	20	330	280	3.2	140
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.188	0.663	1.60	0.026	1.41
Total Nitrogen	mg/L N	Inhouse W4	<0.01	1.37	1.14	3.79	22.8	3.30

Client Sample ID:				MW15	MW16	MW17	MW18	MW19
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0006	E25-00-5864-0007	E25-00-5864-0008	E25-00-5864-0009	E25-00-5864-0010
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
pH	---	APHA 4500-H+ B	---	6.74	7.47	7.17	6.54	6.62
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	7.03	0.921	0.879	0.355	0.256
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	4782	626	598	241	174
Dissolved Oxygen	mg/L	** APHA 4500-O-G (Onsite method preferable)	<1	1.84	4.15	2.80	1.81	< 1
Temperature	Celsius	** Inhouse W40	---	20.2	21.0	18.5	22.0	19.0
Redox Potential	mV	Redox	---	66	68	106	117	-28
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1	373	29	329	126	102
Biochemical Oxygen Demand (BOD5)	mg/L O2	APHA 5210-B	<1	< 1	< 1	14.8	2.00	2.75
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	722	172	117	31.2	9.06
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	8.23	1.99	27.5	2.08	2.19
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	462	13.6	45.0	22.5	18.9
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	345	< 0.5	8.80	16.9	11.4

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW15	MW16	MW17	MW18	MW19
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0006	E25-00-5864-0007	E25-00-5864-0008	E25-00-5864-0009	E25-00-5864-0010
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	1340	248	55.9	43.7	19.3
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	1900	43.8	58.4	13.0	< 9
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	0.7	5.7	1.0	3.4	n.a.
Arsenic	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.001	0.003	0.001	0.001	0.003
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.524	0.114	0.475	5.35	26.3
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	2.11	0.005	0.187	2.80	5.02
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.507	0.361	6.97	0.014	< 0.005
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	0.157	< 0.005	0.108	< 0.005	0.016
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	0.053	0.023	14.3	0.226	0.291
Fluoride	mg/L	** Ion Selective Electrode	<0.1	0.14	< 0.1	0.23	0.10	< 0.1
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	100	100	2400	<100	<100
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	4.38	3.21	7.36	12.5	18.6
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	<40	<40
Benzene (F0)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
LLTRH C10-C14	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH C15-C28	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	110	110
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	52	<50
LLTRH >C10-C16	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH >C16-C34 (F3)	µg/L	** Subcontracted SGS Laboratories Australia	---	100	<100	<100	130	120
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	150	<100	<100	190	180
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Total Phenol	mg/L	** Subcontracted SGS Laboratories Australia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	---	** Subcontracted SGS Laboratories Australia	---	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen
SGS Report No.	µg/L	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Hexachlorobenzene (HCB)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW15	MW16	MW17	MW18	MW19
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0006	E25-00-5864-0007	E25-00-5864-0008	E25-00-5864-0009	E25-00-5864-0010
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
Alpha BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	** Subcontracted SGS Laboratories Australia	<1	<1	<1	<1	<1	<1
	---	** Subcontracted SGS Laboratories Australia	---	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Dichlorvos	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion ethyl (Parathion)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW15	MW16	MW17	MW18	MW19
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0006	E25-00-5864-0007	E25-00-5864-0008	E25-00-5864-0009	E25-00-5864-0010
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
Bromophos ethyl	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos methyl	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
GW Level	---	Ground Water Level	---	2.62	1.57	7.46	3.08	2.09
Turbidity	NTU	APHA 2130	<1	13	2.2	15	190	51
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.092	0.273	0.854	0.785	1.68
Total Nitrogen	mg/L N	Inhouse W4	<0.01	1.03	0.534	21.5	4.88	1.72

Client Sample ID:				MW20	MW21	MW22	MW23	MW25
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0011	E25-00-5864-0012	E25-00-5864-0013	E25-00-5864-0014	E25-00-5864-0015
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
pH	---	APHA 4500-H+ B	---	6.49	6.22	6.51	7.11	6.66
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	1.54	3.34	8.41	3.23	2.90
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	1050	2271	5719	2193	1972
Dissolved Oxygen	mg/L	** APHA 4500-O-G (Onsite method preferable)	<1	1.65	2.18	2.34	2.05	1.82
Temperature	Celsius	** Inhouse W40	---	18.5	21.5	21.0	20.5	22.0
Redox Potential	mV	Redox	---	29	57	15	17	14
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1	105	146	580	462	290
Biochemical Oxygen Demand (BOD5)	mg/L O2	APHA 5210-B	<1	2.05	2.55	< 1	2.40	< 1
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	216	514	937	640	462
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	8.51	18.2	8.30	13.4	16.4
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	44.7	54.6	498	35.3	42.4
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	33.7	62.3	396	47.8	50.9
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	378	934	1380	786	731
Sulfate	mg/L SO4	Total Available - APHA 3125 ICPMS	<9	53.6	22.4	2390	48.3	16.0
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	7.1	42	0.6	16	46
Arsenic	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.001	< 0.001	0.001	< 0.001	0.001
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	4.34	0.964	19.2	2.65	0.846
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.635	1.50	2.48	0.557	0.656
Nitrate	mg/L N	APHA 4500 NO3-F	<0.005	0.008	0.030	0.387	0.016	0.037
Nitrite	mg/L N	APHA 4500 NO2-I	<0.005	< 0.005	< 0.005	0.033	< 0.005	0.005
Ammonia	mg/L N	APHA 4500 NH3-H	<0.005	2.44	6.52	1.79	4.23	5.49
Fluoride	mg/L	** Ion Selective Electrode	<0.1	0.21	0.40	0.18	0.59	0.40
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	2900	1200	<100	<100	800
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	3.76	2.18	20.6	4.51	1.63

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW20	MW21	MW22	MW23	MW25
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0011	E25-00-5864-0012	E25-00-5864-0013	E25-00-5864-0014	E25-00-5864-0015
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	<40	<40
Benzene (F0)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
LLTRH C10-C14	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH C15-C28	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	180	130	<100
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	55	150	74
LLTRH >C10-C16	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	51	<50	<50
LLTRH >C16-C34 (F3)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	210	230	140
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	270	310	190
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Total Phenol	mg/L	** Subcontracted SGS Laboratories Australia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	---	** Subcontracted SGS Laboratories Australia	---	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen
SGS Report No.	µg/L	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Hexachlorobenzene (HCB)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

Client Sample ID:				MW20	MW21	MW22	MW23	MW25
Sample Date:				28 May 2025	28 May 2025	28 May 2025	28 May 2025	28 May 2025
Sampled By:				Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard	Troy Shephard
EAL Sample ID:				E25-00-5864-0011	E25-00-5864-0012	E25-00-5864-0013	E25-00-5864-0014	E25-00-5864-0015
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
Alpha Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	** Subcontracted SGS Laboratories Australia	<1	<1	<1	<1	<1	<1
	---	** Subcontracted SGS Laboratories Australia	---	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283880	SE283880	SE283880	SE283880	SE283880
Dichlorvos	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion ethyl (Parathion)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos ethyl	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos methyl	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2	<0.2	<0.2	<0.2
GW Level	---	Ground Water Level	---	1.19	0.75	2.66	3.61	3.44
Turbidity	NTU	APHA 2130	<1	200	12	170	20	23
Total Phosphorus	mg/L P	Inhouse W4	<0.01	1.99	1.40	0.668	2.17	1.47
Total Nitrogen	mg/L N	Inhouse W4	<0.01	2.75	6.33	2.49	3.75	6.42

Notes:

- ** denotes NATA accreditation does not cover the performance of this service.

Certificate of Analysis

Request ID: EAL/E25-00-5864 Report ID: E25-00-5864_EALP3_1 Issue date: 25 June 2025

- .. denotes not requested, no data/information or no guidelines available.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm

Certificate of Analysis

Request ID: EAL/E25-00-5752 Report ID: E25-00-5752_EALP3_1 Issue date: 13 June 2025

Client Sample ID:				MCS01	MCS02	MCS03	MCS04	MCS05
Sample Date:				26 May 2025	26 May 2025	26 May 2025	26 May 2025	26 May 2025
Sampled By:				Troy	Troy	Troy	Troy	Troy
Your Client:				Lismore City Council	Lismore City Council	Lismore City Council	Lismore City Council	Lismore City Council
EAL Sample ID:				E25-00-5752-0001	E25-00-5752-0002	E25-00-5752-0003	E25-00-5752-0004	E25-00-5752-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
pH	---	APHA 4500-H+ B	---	7.09	7.09	7.20	7.14	7.12
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.240	0.244	0.345	0.306	0.316
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	163	166	235	208	215
Dissolved Oxygen	mg/L	** APHA 4500-O-G (Onsite method preferable)	<1	6.39	6.20	6.15	6.14	5.80
Temperature	Celsius	** Inhouse W40	---	19.5	19.5	19.0	19.5	19.0
Turbidity	NTU	APHA 2130	<1	32	24	40	36	32
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	32	21	54	35	34
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	58	57	71	66	67
Biochemical Oxygen Demand (BOD ₅)	mg/L O ₂	APHA 5210-B	<1	1.05	3.10	6.75	4.80	3.50
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	26.2	26.7	41.1	34.0	34.7
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	0.633	1.05	5.97	3.87	4.19
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	11.2	11.6	16.7	14.6	15.0
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	7.91	7.70	7.80	7.67	7.71
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	40.3	37.5	51.9	36.8	37.0
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	< 9	< 9	19.9	13.7	13.6
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	n.a.	n.a.	2.6	2.7	2.7
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	1.60	1.33	1.26	1.36	1.31
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.145	0.070	0.127	0.111	0.142
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.065	0.221	1.94	1.24	1.49
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	< 0.005	0.010	0.042	0.051	0.082
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	0.050	0.092	0.313	0.324	0.371
Total Nitrogen	mg/L N	Inhouse W4	<0.01	0.433	0.819	3.25	2.28	2.63
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.137	0.212	0.435	0.314	0.330
Fluoride	mg/L	** Ion Selective Electrode	<0.1	< 0.1	< 0.1	0.19	0.15	0.15
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	1400	1300	3600	4300	1800
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	4.67	4.77	5.23	5.14	6.39
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)	Total Recoverable Hydrocarbons (C6 - C10)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283687	SE283687	SE283687	SE283687	SE283687
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	<40	<40
Benzene (F0)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
	---	** Subcontracted SGS Laboratories Australia	---	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)	Total Recoverable Hydrocarbons (C10 - C40)
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283687	SE283687	SE283687	SE283687	SE283687
LLTRH C10-C14	µg/L	** Subcontracted SGS Laboratories Australia	---	110	74	140	110	150

Certificate of Analysis

Request ID: EAL/E25-00-5752 Report ID: E25-00-5752_EALP3_1 Issue date: 13 June 2025

Client Sample ID:				MCS01	MCS02	MCS03	MCS04	MCS05
Sample Date:				26 May 2025	26 May 2025	26 May 2025	26 May 2025	26 May 2025
Sampled By:				Troy	Troy	Troy	Troy	Troy
Your Client:				Lismore City Council	Lismore City Council	Lismore City Council	Lismore City Council	Lismore City Council
EAL Sample ID:				E25-00-5752-0001	E25-00-5752-0002	E25-00-5752-0003	E25-00-5752-0004	E25-00-5752-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
LLTRH C15-C28	µg/L	** Subcontracted SGS Laboratories Australia	---	170	120	250	180	230
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	280	270	380	290	370
LLTRH >C10-C16	µg/L	** Subcontracted SGS Laboratories Australia	---	120	78	170	130	170
LLTRH >C16-C34 (F3)	µg/L	** Subcontracted SGS Laboratories Australia	---	360	320	510	370	480
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	210	200	270	220	280
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	560	470	770	580	750
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	140	130	180	140	190
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283687	SE283687	SE283687	SE283687	SE283687
Phenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	** Subcontracted SGS Laboratories Australia	<1	<1	<1	<1	<1	<1
2-chlorophenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	µg/L	** Subcontracted SGS Laboratories Australia	<1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	µg/L	** Subcontracted SGS Laboratories Australia	<2	<2	<2	<2	<2	<2
Redox Potential	mV	Redox	---	251	268	265	277	291

Notes:

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- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).

Certificate of Analysis

Request ID: EAL/E25-00-5752 Report ID: E25-00-5752_EALP3_1 Issue date: 13 June 2025

- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 μ S/cm.
- mg/L = ppm

Certificate of Analysis

Request ID: EAL/E25-00-5750 Report ID: E25-00-5750_EALP3_1 Issue date: 13 June 2025

Client Sample ID:				LD. 19/5	TWP. 18/5
Sample Date:				26 May 2025	26 May 2025
Sampled By:				Troy	Troy
Your Client:				Lismore City Council	Lismore City Council
EAL Sample ID:				E25-00-5750-0001	E25-00-5750-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	8.74	7.61
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	1.17	0.715
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	792	486
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	426	257
Chemical Oxygen Demand	mg/L	** APHA 5220-D	<1	123	260
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	109	51.5
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	49.7	34.2
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	49.6	64.4
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	18.7	15.8
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	98.2	74.5
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	79.7	55.0
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	1.2	1.4
Arsenic	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.003	0.003
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.116	0.005
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	0.619	< 0.005
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	36.4	6.11
Total Nitrogen	mg/L N	Inhouse W4	<0.01	43.6	13.2
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.602	2.10
Fluoride	mg/L	** Ion Selective Electrode	<0.1	0.11	0.57
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	610000	1580000
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	37.7	37.5
	---	** Subcontracted SGS Laboratories Australia	---	Organo-chlorine (OC) Pesticide Screen	Organo-chlorine (OC) Pesticide Screen
SGS Report No.	µg/L	** Subcontracted SGS Laboratories Australia	---	SE283686	SE283686
Hexachlorobenzene (HCB)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Alpha BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Heptachlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Aldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Beta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Delta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1

Certificate of Analysis

Request ID: EAL/E25-00-5750 Report ID: E25-00-5750_EALP3_1 Issue date: 13 June 2025

Client Sample ID:				LD. 19/5	TWP. 18/5
Sample Date:				26 May 2025	26 May 2025
Sampled By:				Troy	Troy
Your Client:				Lismore City Council	Lismore City Council
EAL Sample ID:				E25-00-5750-0001	E25-00-5750-0002
Parameter	Unit	Method Reference	LOR	---	---
Dieldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Endrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Methoxychlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Endrin ketone	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Mirex	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	<0.1	<0.1
Total OC	µg/L	** Subcontracted SGS Laboratories Australia	<1	<1	<1
	---	** Subcontracted SGS Laboratories Australia	---	Organo-phosphate (OC) Pesticide Screen	Organo-phosphate (OC) Pesticide Screen
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE283686	SE283686
Dichlorvos	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5
Dimethoate	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5
Fenitrothion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2
Malathion	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2
Parathion ethyl (Parathion)	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2
Bromophos ethyl	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2
Methidathion	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	<0.5
Ethion	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	<0.2	<0.2
Azinphos methyl	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.2	<0.2
Turbidity	NTU	APHA 2130	<1	16	1500

Notes:

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- Analysis conducted between sample arrival date and reporting date.

Certificate of Analysis

Request ID: EAL/E25-00-5750 Report ID: E25-00-5750_EALP3_1 Issue date: 13 June 2025

- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity $1 \text{ dS/m} = 1 \text{ mS/cm} = 1000 \text{ }\mu\text{S/cm}$.
- $\text{mg/L} = \text{ppm}$

Certificate of Analysis

Request ID: EAL/E25-00-1759 Report ID: E25-00-1759_EALP3_1 Issue date: 24 March 2025

Client Sample ID:				LD	TWP
Sample Date:				17 February 2025	17 February 2025
Sampled By:				TS	TS
EAL Sample ID:				E25-00-1759-0001	E25-00-1759-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	8.36	7.97
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	2.82	1.56
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	1918	1061
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	1076	570
Chemical Oxygen Demand	mg/L	** APHA 5220-D	<1	1000	120
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	353	175
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	137	70.4
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	66.5	117
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	36.0	35.3
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	344	198
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	80.3	96.3
Arsenic	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.013	0.007
Total Nitrogen	mg/L N	Inhouse W4	<0.01	295	12.9
Total Phosphorus	mg/L P	Inhouse W4	<0.01	5.86	2.15
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	< 0.005	< 0.005
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	122	10.3
Fluoride	mg/L	** Ion Selective Electrode	<0.1	0.67	0.68
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	240000	350000
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	148	54.7
Turbidity	NTU	APHA 2130	<1	180	38

Notes:

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- Analysis conducted between sample arrival date and reporting date.
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- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm

Certificate of Analysis

Request ID: EAL/E25-00-1760 Report ID: E25-00-1760_EALP3_2 Issue date: 14 March 2025

Client Sample ID:				MCS01	MCS02	MCS03	MCS04	MCS05
Sample Date:				17 February 2025	17 February 2025	17 February 2025	17 February 2025	17 February 2025
Sampled By:				TS	TS	TS	TS	TS
EAL Sample ID:				E25-00-1760-0001	E25-00-1760-0002	E25-00-1760-0003	E25-00-1760-0004	E25-00-1760-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
pH	---	APHA 4500-H+ B	---	7.25	7.61	7.52	7.66	7.44
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.377	0.518	0.471	0.453	0.586
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	256	352	320	308	398
Dissolved Oxygen	mg/L	** APHA 4500-O-G (Onsite method preferable)	<1	6.38	6.59	6.36	5.25	5.86
Temperature	Celsius	** Inhouse W40	---	26.7	27.2	26.4	26.0	27.3
Redox Potential	mV	Redox	---	238	247	265	253	255
Turbidity	NTU	APHA 2130	<1	8.9	9.9	14	14	19
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	7	22	33	16	22
Biochemical Oxygen Demand (BOD5)	mg/L	APHA 5210-B	<1	2.00	2.70	7.60	5.30	3.30
Total Nitrogen	mg/L N	Inhouse W4	<0.01	0.486	5.43	5.40	4.94	5.64
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.176	1.03	0.847	0.825	0.873
Nitrate	mg/L N	APHA 4500 NO3-F	<0.005	0.005	3.75	4.24	6.94	3.76
Nitrite	mg/L N	APHA 4500 NO2-I	<0.005	< 0.005	0.053	0.037	0.054	0.082
Ammonia	mg/L N	APHA 4500 NH3-H	<0.005	0.017	0.466	0.227	0.466	0.767
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	8200	<10	17800	20600	12200
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	7.83	7.35	6.15	7.56	5.94
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE279025	SE279025	SE279025	SE279025	SE279025
Benzene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	** Subcontracted SGS Laboratories Australia	---	<1	<1	<1	<1	<1
o-xylene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	** Subcontracted SGS Laboratories Australia	---	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	** Subcontracted SGS Laboratories Australia	---	<3	<3	<3	<3	<3
Napthalene (VOC)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE279025	SE279025	SE279025	SE279025	SE279025
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	<40	<40
Benzene (F0)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE279025	SE279025	SE279025	SE279025	SE279025
LLTRH C10-C14	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH C15-C28	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	120	120	120
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50
LLTRH >C10-C16	µg/L	** Subcontracted SGS Laboratories Australia	---	60	<50	<50	<50	<50
LLTRH >C16-C34 (F3)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	120	120	130
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100

Certificate of Analysis

Request ID: EAL/E25-00-1760 Report ID: E25-00-1760_EALP3_2 Issue date: 14 March 2025

Client Sample ID:				MCS01	MCS02	MCS03	MCS04	MCS05
Sample Date:				17 February 2025	17 February 2025	17 February 2025	17 February 2025	17 February 2025
Sampled By:				TS	TS	TS	TS	TS
EAL Sample ID:				E25-00-1760-0001	E25-00-1760-0002	E25-00-1760-0003	E25-00-1760-0004	E25-00-1760-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	150	<100	170	170	190
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100

Notes:

- ** denotes NATA accreditation does not cover the performance of this service.
- .. denotes not requested, no data/information or no guidelines available.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm