

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecotest on 11/03/2024, Lab Job No. R16366.
 Samples submitted by ██████████ Your Job: SMC010-Blakebrook WQ - Groundwater - March 24
 13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQN1-B	BQN1-A	BQN1-D	BQN2-B	BQN2-A	BQN2-D	BQS1-S	BQS1-I	BQS1-D
	Job No.	R16366/1	R16366/2	R16366/3	R16366/4	R16366/5	R16366/6	R16366/7	R16366/8	R16366/9
Total Alkalinity (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	231	86	122	107	154	337	115	369	134
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	136	72	24	60	78	11	68	156	42
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	<2	<2	<2	<2	<2	4	<2	2	4
Sodium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁰ 162	160	316	273	170	74.3	209	38.6	109	349
Potassium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁰ 162	3.68	7.65	2.42	7.80	4.28	1.79	3.29	5.14	4.19
Calcium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁰ 162	24.2	25.1	8.47	23.1	17.7	3.34	16.7	40.8	13.3
Magnesium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁰ 162	18.4	2.19	0.76	0.48	8.19	0.65	6.41	13.2	2.00
Sodium Absorption Ratio (SAR)	** By calculation	6.0	16.2	24.1	9.5	3.7	27.3	2.0	3.8	23.5
Chloride (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁰ 162	271	566	403	324	138	156	89.1	63.3	470
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS ¹⁰⁰⁰ 162	123	125	162	123	117	122	106	105	141
Chloride/Sulfate Ratio	** Calculation	2.2	4.5	2.5	2.6	1.2	1.3	0.8	0.6	3.3
Iron (mg/L)	Total Available - APHA 3125 ICPMS ¹⁰⁰⁰ 162	0.948	0.023	0.567	0.060	0.038	0.015	0.126	0.304	0.093
Lead (mg/L)	Total Available - APHA 3125 ICPMS ¹⁰⁰⁰ 162	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ¹⁰⁰⁰ 162	0.333	0.006	0.007	0.007	0.007	0.007	0.009	0.007	0.013
Lead (mg/L)	Dissolved - APHA 3125 ICPMS ¹⁰⁰⁰ 162	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX										
Benzene (µg/L)	Subcontracted: SGS report SE 262096	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted: SGS report SE 262096	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted: SGS report SE 262096	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene (µg/L)	Subcontracted: SGS report SE 262096	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted: SGS report SE 262096	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted: SGS report SE 262096	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted: SGS report SE 262096	<3	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted: SGS report SE 262096	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
TRH C6-C9 (µg/L)	Subcontracted: SGS report SE 262096	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzene (F0) (µg/L)	Subcontracted: SGS report SE 262096	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 (µg/L)	Subcontracted: SGS report SE 262096	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1) (µg/L)	Subcontracted: SGS report SE 262096	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C10-C14 (µg/L)	Subcontracted: SGS report SE 262096	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C15-C28 (µg/L)	Subcontracted: SGS report SE 262096	<100	<100	<100	<100	<100	<100	<100	<100	130
LLTRH C29-C36 (µg/L)	Subcontracted: SGS report SE 262096	<50	<50	<50	<50	<50	<50	<50	<50	64
LLTRH >C10-C16 (µg/L)	Subcontracted: SGS report SE 262096	<50	<50	<50	<50	<50	<50	<50	<50	100
LLTRH >C16-C34 (F3) (µg/L)	Subcontracted: SGS report SE 262096	<100	<100	<100	<100	<100	<100	<100	<100	130
LLTRH >C34-C40 (F4) (µg/L)	Subcontracted: SGS report SE 262096	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH Sum C10-C36 (µg/L)	Subcontracted: SGS report SE 262096	<100	<100	<100	<100	<100	<100	<100	<100	240
LLTRH C37-C40 (µg/L)	Subcontracted: SGS report SE 262096	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH C10-C14-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<50
TRH C15-C28-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<200
TRH C29-C36-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<200
TRH C37-C40-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<200
TRH >C10-C16-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<60
TRH >C16-C34-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<500
TRH >C34-C40-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<500
TRH Sum C10-C36-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<225
TRH Sum C10-C40-Silica (µg/L)	Subcontracted: SGS report SE 262096A	..	..	..	..	..	..	..	..	<320

Notes:

- Total metals - samples digested with nitric acid. Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2; Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
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- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
- Results relate only to the samples tested.
- This report was re-issued on 5/04/2024 and replaces the report issued on 4/04/2024. pH and EC removed at clients' request.



BLAKEBROOK QUARRY- GROUNDWATER QUALITY ASSESSMENT

Sampling Observations- March 2024.

Sample Information	Blakebrook Quarry Groundwater Well Sampling Information								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Date	08/03/24	08/03/24	08/03/24	08/03/24	08/03/24	08/03/24	08/03/24	08/03/24	08/03/24
Time	10:50	11:30	11:50	12:50	13:55	13:00	9:50	8:30	8:40
Recorded Depth 1	23.77	47.8	78.54	7.42	46.30	100.14	29.15	29.96	87.58
Recorded Depth 2	24.12	48.38	78.44	7.62	46.10	100.86	29.54	30.10	87.60
Level Meter Calibrated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Level	50%	50%	50%	50%	50%	50%	50%	50%	50%
Memory Level	78%	78%	78%	75%	71%	81%	81%	84%	81%
Sample Method	Bottom filling bailer from screen zone	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone	12-volt submersible pump	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone	Bottom filling bailer from screen zone	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone
Odour	Not Present	Not Present	Present-Sulfur	Not Present	Not Present	Not Present	Not Present	Not Present	Present-Sulfur
Site/Water Observations	Clear	Clear	Clear, small particles	Clear	Clear	Clear, small particles	Clear	Clear	Clear
Fresh Water WQOs	Water Quality Observations								
pH	7.05	7.26	7.84	7.01	10.66	8.47	10.86	7.79	8.45
EC μ S/m	0.24	0.55	1.34	0.80	1.42	1.06	0.84	0.39	0.77
DO (%)	65.93	62.82	50.65	6.91	73.29	57.17	59.15	86.28	52.06
Temperature (°C)	22.86	23.16	23.43	20.61	23.30	22.91	22.33	22.27	23.06
ORP	159.93	101.77	23.15	-17.9	42.3	44.8	78.50	98.88	90.83

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecosteam on 12/06/2024. Lab Job No. R5354.
 Samples submitted by ██████████ Your Job: SMC010-Blakebrook WQ GW June 24
 13 Evans Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4
		BQN1-B 11/06/24	BQN1-A 11/06/24	BQN1-D 11/06/24	BQN2-B 11/06/24
	Job No.	R5354/1	R5354/2	R5354/3	R5354/4
Total Alkalinity (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	231	199	140	157
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	167	223	59	85
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	<2	<2	22	10
Sodium (mg/L)	APHA 3125 ICPMS ^{1008 142}	189	342	304	234
Potassium (mg/L)	APHA 3125 ICPMS ^{1008 142}	4.49	9.76	3.84	7.16
Calcium (mg/L)	APHA 3125 ICPMS ^{1008 142}	31.2	81.8	18.9	24.8
Magnesium (mg/L)	APHA 3125 ICPMS ^{1008 142}	21.6	4.58	2.87	5.67
Sodium Absorption Ratio (SAR)	** By calculation	6.36	9.94	17.2	11.0
Chloride (mg/L)	APHA 3125 ICPMS ^{1008 142}	222	494	325	299
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS ^{1008 142}	32.3	47.6	75.3	47.5
Chloride/Sulfate Ratio	** Calculation	6.88	10.4	4.32	6.30
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{1008 142}	2.07	0.211	4.68	0.271
Lead (mg/L)	Total Available - APHA 3125 ICPMS ^{1008 142}	<0.001	0.006	0.004	0.002
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{1008 142}	0.160	<0.005	0.010	<0.005
Lead (mg/L)	Dissolved - APHA 3125 ICPMS ^{1008 142}	<0.001	<0.001	<0.001	<0.001
BTEX					
Benzene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5
m/p-xylene (µg/L)	Subcontracted: SGS report SE 266752	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted: SGS report SE 266752	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted: SGS report SE 266752	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)					
TRH C6-C9 (µg/L)	Subcontracted: SGS report SE 266752	<40	<40	<40	<40
Benzene (F0) (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1) (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50
LLTRH C10-C14 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50
LLTRH C15-C28 (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100
LLTRH C29-C36 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50
LLTRH >C10-C16 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50
LLTRH >C16-C34 (F3) (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100
LLTRH >C34-C40 (F4) (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100
TRH Sum C10-C36 (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100
LLTRH C37-C40 (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100
TRH C10-C14-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH C15-C28-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH C29-C36-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH C37-C40-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH >C10-C16-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH >C16-C34-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH >C34-C40-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH Sum C10-C36-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..
TRH Sum C10-C40-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	..

Notes:

- Total metals - samples digested with nitric acid. Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2; Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
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- Results relate only to the samples tested.
- This report was re-issued on 02/07/2024 and replaces the report issued on 28/06/2024.



RESULTS OF WATER ANALYSIS

9 samples supplied by Ecoteam on 12/06/2024. Lab Job No. R5354.
 Samples submitted by ██████████ Your Job: SMO010-Blakebrook WQ GW June 24
 13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQN2-A 11/06/24	BQN2-D 11/06/24	BQS1-S 11/06/24	BQS1-I 11/06/24	BQS1-D 11/06/24
	Job No.	R5354/5	R5354/6	R5354/7	R5354/8	R5354/9
Total Alkalinity (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	186	344	127	384	129
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	70	14	83	180	44
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	20	13	<2	<2	<2
Sodium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	64.1	237	45.7	117	392
Potassium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	3.37	2.33	3.98	6.42	4.49
Calcium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	16.7	4.72	21.5	49.5	14.3
Magnesium (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	6.79	0.512	7.02	13.7	2.06
Sodium Absorption Ratio (SAR)	** By calculation	3.34	27.7	2.18	3.79	25.6
Chloride (mg/L)	APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	44.3	116	30.0	36.7	471
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	37.0	48.1	32.4	29.2	70.6
Chloride/Sulfate Ratio	** Calculation	1.20	2.41	0.924	1.26	6.67
Iron (mg/L)	Total Available - APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	0.489	0.252	0.161	3.12	0.112
Lead (mg/L)	Total Available - APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	0.006	0.005	0.001	0.001	<0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	0.006	<0.005	0.006	0.009	<0.005
Lead (mg/L)	Dissolved - APHA 3125 ICPMS ¹⁰⁰⁹⁻¹⁴²	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX						
Benzene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene (µg/L)	Subcontracted: SGS report SE 266752	<1	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted: SGS report SE 266752	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted: SGS report SE 266752	<3	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)						
TRH C6-C9 (µg/L)	Subcontracted: SGS report SE 266752	<40	<40	<40	71.0	<40
Benzene (F0) (µg/L)	Subcontracted: SGS report SE 266752	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	69.0	<50
TRH C6-C10 minus BTEX (F1) (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	69.0	<50
LLTRH C10-C14 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50	55.0
LLTRH C15-C28 (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100	<100
LLTRH C29-C36 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50	120
LLTRH >C10-C16 (µg/L)	Subcontracted: SGS report SE 266752	<50	<50	<50	<50	78.0
LLTRH >C16-C34 (F3) (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100	140
LLTRH >C34-C40 (F4) (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100	<100
TRH Sum C10-C36 (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100	240
LLTRH C37-C40 (µg/L)	Subcontracted: SGS report SE 266752	<100	<100	<100	<100	<100
TRH C10-C14-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<50	..
TRH C15-C28-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<200	..
TRH C29-C36-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<200	..
TRH C37-C40-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<200	..
TRH <C10-C16-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<60	..
TRH <C16-C34-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<500	..
TRH >C34-C40-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<500	..
TRH Sum C10-C36-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<225	..
TRH Sum C10-C40-Silica (µg/L)	Subcontracted: SGS report SE 266752	..	..	..	<320	..

Notes:

- Total metals - samples digested with nitric acid. Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
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- Results relate only to the samples tested.
- This report was re-issued on 02/07/2024 and replaces the report issued on 28/06/2024.



BLAKEBROOK QUARRY- GROUNDWATER QUALITY ASSESSMENT

Sampling Observations- June 2024.

Sample Information	Blakebrook Quarry Groundwater Well Sampling Information								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Date	11/06/24	11/06/24	11/06/24	11/06/24	11/06/24	11/06/24	11/06/24	11/06/24	11/06/24
Time	13:50	13:00	13:20	15:20	15:50	15:10	11:30	12:30	12:00
Recorded Depth 1	17.35	48.40	80.88	6.15	45.97	100.09	29.24	30.05	87.40
Recorded Depth 2	17.95	48.88	80.89	6.41	45.96	100.09	29.59	30.88	87.50
Level Meter Calibrated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Level	48%	48%	48%	48%	48%	48%	49%	48%	48%
Memory Level	77%	75%	75%	75%	81%	68%	76%	78%	80%
Sample Method	Bottom filling bailer from screen zone	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone	12-volt submersible pump	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone	Bottom filling bailer from screen zone	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone
Odour	Not Present	Not Present	Present-Sulfur	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Clear	Clear	Clear, small particles	Clear	Clear	Clear, small particles	Milky	Clear	Clear
Fresh Water WQOs	Water Quality Observations								
pH	7.07	7.03	7.57	6.84	11.02	8.45	8.84	7.13	8.68
EC μ S/m	0.30	0.66	1.64	1.01	1.82	1.29	1.15	0.36	0.86
DO (%)	77.01	58.72	66.36	10.65	69.91	64.55	36.41	83.61	60.14
Temperature (°C)	21.51	22.30	21.48	20.51	20.66	21.11	18.79	20.33	20.64
ORP	78.50	55.07	-54.64	-35.01	29.80	70.39	80.40	108.70	82.26

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecoteam on 5/09/2024. Lab Job No. R8561.
 Samples submitted by [redacted] Your Job: SMC210-Blakebrook WQ-Groundwater- Sept24
 13 Evans Street LISVADE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQN1-B	BQN1-A	BQN1-D	BQN2-B	BQN2-A	BQN2-D	BQS1-S	BQS1-I	BQS1-D
	Job No.	R8561/1	R8561/2	R8561/3	R8561/4	R8561/5	R8561/6	R8561/7	R8561/8	R8561/9
Total Alkalinity (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	235	167	134	121	194	337	164	380	137
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	155	210	49	69	131	11	92	141	47
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	..	2.50	..	..	3.60	<2	2.60	4.00	5.30
Oil and Grease (mg/L)	Subcontracted SGS report SE 270779	<5	..	<5	<5	..	..	..	..	..
Sodium (mg/L)	APHA 3125 ICPMS ^{1,2}	177	323	283	195	90.6	223	45.3	136	343
Potassium (mg/L)	APHA 3125 ICPMS ^{1,2}	4.22	9.47	3.26	8.98	5.88	2.32	4.08	5.48	4.12
Calcium (mg/L)	APHA 3125 ICPMS ^{1,2}	29.9	71.0	13.0	26.5	34.3	3.68	23.1	39.0	15.5
Magnesium (mg/L)	APHA 3125 ICPMS ^{1,2}	19.4	7.98	4.00	0.686	11.0	0.538	8.27	10.6	1.94
Sodium Absorption Ratio (SAR)	** By calculation	6.2	9.7	17.6	10.2	3.4	28.8	2.1	5.0	21.8
Chloride (mg/L)	APHA 3125 ICPMS ^{1,2}	208	453	306	223	73.8	108	28.0	47.4	437
Sulfate (mg/L SO ₄ ²⁻)	APHA 3125 ICPMS ^{1,2}	18.0	30.1	62.2	30.9	22.5	26.7	15.4	11.6	45.8
Chloride/Sulfate Ratio	** Calculation	11.5	15.0	4.93	7.23	3.28	4.05	1.82	4.07	9.55
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{1,2}	2.18	2.09	7.27	0.241	0.149	0.123	0.238	0.841	0.128
Lead (mg/L)	Total Available - APHA 3125 ICPMS ^{1,2}	<0.001	0.003	0.003	0.002	0.005	0.002	0.001	<0.001	<0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{1,2}	1.15	<0.005	0.013	0.010	0.007	0.009	0.007	0.024	0.011
Lead (mg/L)	Dissolved - APHA 3125 ICPMS ^{1,2}	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX										
Benzene (µg/L)	Subcontracted SGS report SE 270788	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L)	Subcontracted SGS report SE 270788	<0.5	4.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L)	Subcontracted SGS report SE 270788	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene (µg/L)	Subcontracted SGS report SE 270788	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-xylene (µg/L)	Subcontracted SGS report SE 270788	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes (µg/L)	Subcontracted SGS report SE 270788	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX (µg/L)	Subcontracted SGS report SE 270788	<3	4	<3	<3	<3	<3	<3	<3	<3
Naphthalene (VOC) (µg/L)	Subcontracted SGS report SE 270788	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
TRH C6-C9 (µg/L)	Subcontracted SGS report SE 270788	<40	<40	<40	<40	<40	<40	<40	<40	<40
Benzene (F0) (µg/L)	Subcontracted SGS report SE 270788	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 (µg/L)	Subcontracted SGS report SE 270788	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1) (µg/L)	Subcontracted SGS report SE 270788	<50	<50	<50	<50	<50	<50	<50	<50	<50
LLTRH C10-C14 (µg/L)	Subcontracted SGS report SE 270788	<50	<50	<50	<50	<50	<50	<50	<50	53.0
LLTRH C15-C28 (µg/L)	Subcontracted SGS report SE 270788	<100	<100	<100	<100	<100	<100	<100	<100	<100
LLTRH C29-C36 (µg/L)	Subcontracted SGS report SE 270788	<50	<50	<50	<50	<50	<50	<50	<50	140.0
LLTRH >C10-C16 (µg/L)	Subcontracted SGS report SE 270788	<50	<50	<50	<50	<50	<50	<50	<50	67.0
LLTRH >C16-C34 (F3) (µg/L)	Subcontracted SGS report SE 270788	<100	<100	<100	<100	<100	<100	<100	<100	180.0
LLTRH >C34-C40 (F4) (µg/L)	Subcontracted SGS report SE 270788	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH Sum C10-C36 (µg/L)	Subcontracted SGS report SE 270788	<100	<100	<100	<100	<100	<100	<100	<100	270.0
LLTRH C37-C40 (µg/L)	Subcontracted SGS report SE 270788	<100	<100	<100	<100	<100	<100	<100	<100	<100
Silica Gel Clean-up TRH										
TRH C10-C14-Silica (µg/L)	Subcontracted SGS report SE 270779	<50	..	<50	<50	..	..	..	..	..
TRH C15-C28-Silica (µg/L)	Subcontracted SGS report SE 270779	<200	..	<200	<200	..	..	..	..	..
TRH C29-C36-Silica (µg/L)	Subcontracted SGS report SE 270779	<200	..	<200	<200	..	..	..	..	..
TRH C37-C40-Silica (µg/L)	Subcontracted SGS report SE 270779	<200	..	<200	<200	..	..	..	..	..
TRH >C10-C16-Silica (µg/L)	Subcontracted SGS report SE 270779	<60	..	<60	<60	..	..	..	..	..
TRH >C16-C34-Silica (µg/L)	Subcontracted SGS report SE 270779	<500	..	<500	<500	..	..	..	..	..
TRH >C34-C40-Silica (µg/L)	Subcontracted SGS report SE 270779	<500	..	<500	<500	..	..	..	..	..
TRH Sum C10-C36-Silica (µg/L)	Subcontracted SGS report SE 270779	<225	..	<225	<225	..	..	..	..	..
TRH Sum C10-C40-Silica (µg/L)	Subcontracted SGS report SE 270779	<320	..	<320	<320	..	..	..	..	..

- Notes**
- Total metals - samples digested with nitric acid; Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2; Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
 - Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
 - 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
 - For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
 - Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
 - Analysis conducted between sample arrival date and reporting date.
 - ** NATA accreditation does not cover the performance of this service.
 - .. Denotes not requested.
 - This report is not to be reproduced except in full.
 - All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
 - Results relate only to the samples tested.
 - This report was issued on 23/09/2024.



BLAKEBROOK QUARRY- GROUNDWATER QUALITY ASSESSMENT

Sampling Observations- September 2024.

Sample Information	Blakebrook Quarry Groundwater Well Sampling Information								
	SOUTH			NORTH 1			NORTH 2		
Site Name	BQS1S	BQS1I	BQS1D	BQN1B	BQN1A	BQN1D	BQN2B	BQN2A	BQN2D
Well Type	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Date	05/09/24	05/09/24	05/09/24	05/09/24	05/09/24	05/09/24	05/09/24	05/09/24	05/09/24
Time	9:30	9:55	9:43	11:00	11:25	11:30	8:10	8:00	8:48
Recorded Depth 1	16.67	47.77	80.40	5.88	45.40	100.19	29.40	30.03	87.09
Recorded Depth 2	17.25	48.42	80.41	5.97	46.40	100.19	29.70	31.10	87.10
Level Meter Calibrated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery Level	47%	47%	47%	47%	47%	48%	48%	48%	48%
Memory Level	78%	71%	75%	78%	81%	71%	81%	81%	75%
Sample Method	Bottom filling bailer from screen zone	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone	12-volt submersible pump	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone	Bottom filling bailer from screen zone	Bottom filling bailer from screen zone	Hydro sleeve bailer from screen zone
Odour	Not Present	Not Present	Present-Sulfur	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Clear	Clear	Clear, small particles	Clear	Clear	Clear	Clear	Clear	Clear
Fresh Water WQOs	Water Quality Observations								
pH	6.87	7.48	7.33	6.93	10.86	8.04	10.92	7.52	8.71
EC μ S/m	0.43	0.79	1.71	1.10	1.85	1.36	1.17	0.67	1.04
DO (%)	59.50	51.96	54.09	7.15	102.44	93.49	84.41	57.26	94.71
Temperature (°C)	20.17	20.22	20.71	20.56	21.91	21.82	21.02	19.64	24.56
ORP	124.58	33.52	-171.32	-25.70	8.51	47.92	55.89	110.91	77.94

Certificate of Analysis

Request ID: EAL/E24-00-2092 Report ID: E24-00-2092_EALP3_3 Issue date: 06 February 2025

				Client Sample ID:	BQN1-B	BQN1-A	BQN1-D	BQN2-B	BQN2-A
				Sample Date:	10 December 2024	10 December 2024	10 December 2024	10 December 2024	10 December 2024
				EAL Sample ID:	E24-00-2092-0001	E24-00-2092-0002	E24-00-2092-0003	E24-00-2092-0004	E24-00-2092-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---	---
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1	225	125	146	126	184	
Water Hardness	mg/L CaCO3 equivalent	** Calculation using Ca and Mg	<1	145	142	45	59	95	
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	180	316	290	186	81.9	
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	4.32	8.08	2.69	7.14	4.65	
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	27.6	51.2	12.1	22.5	22.8	
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	18.4	3.41	3.64	0.796	9.25	
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	203	485	295	242	62.3	
Sulfate	mg/L SO4	Total Available - APHA 3125 ICPMS	<9	9.95	24.7	63.1	21.6	15.9	
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	20	20	4.7	11	3.9	
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.554	0.315	9.34	0.084	0.071	
Lead	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	< 0.001	0.002	< 0.001	0.001	
Sodium Absorption Ratio	---	** Calculation	---	6.5	12	19	10	3.7	
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE275919	SE275919	SE275919	SE275919	SE275919	
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	1	<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	---	SE275919	SE275919	SE275919	SE275919	SE275919	
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	45	<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	---	SE275919	SE275919	SE275919	SE275919	SE275919	
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	<100	<100	
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<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	<100	<100	
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100	

Certificate of Analysis

Request ID: EAL/E24-00-2092 Report ID: E24-00-2092_EALP3_3 Issue date: 06 February 2025

				Client Sample ID:	BQN1-B	BQN1-A	BQN1-D	BQN2-B	BQN2-A
				Sample Date:	10 December 2024	10 December 2024	10 December 2024	10 December 2024	10 December 2024
				EAL Sample ID:	E24-00-2092-0001	E24-00-2092-0002	E24-00-2092-0003	E24-00-2092-0004	E24-00-2092-0005
Parameter	Unit	Method Reference	LOR						
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	---	<100	<100	<100	<100	<100
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	---	<100	<100	<100	<100	<100
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.035	0.016	0.023	0.012	0.010	
Lead	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Total Oils and Grease	mg/L	APHA 5520-D (hexane extractable)	<2	---	< 2	---	---	< 2	
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	---	---	---	SE275919A	---	
TRH C10-C14-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<50	---	---	---	<50	---	
TRH C15-C28-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<200	---	---	---	<200	---	
TRH C29-C36-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<200	---	---	---	<200	---	
TRH C37-C40-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<200	---	---	---	<200	---	
TRH >C10-C16-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<60	---	---	---	<60	---	
TRH >C16-C34-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<500	---	---	---	<500	---	
TRH >C34-C40-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<500	---	---	---	<500	---	
TRH Sum C10-C36-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<450	---	---	---	<225	---	
TRH Sum C10-C40-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<650	---	---	---	<320	---	

				Client Sample ID:	BAN2-D	BQS1-S	BQS1-I	BQS1-D
				Sample Date:	10 December 2024	10 December 2024	10 December 2024	10 December 2024
				EAL Sample ID:	E24-00-2092-0006	E24-00-2092-0007	E24-00-2092-0008	E24-00-2092-0009
Parameter	Unit	Method Reference	LOR					
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	---	318	184	358	157
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	---	11	100	108	41
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	---	228	50.7	154	359
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	---	1.97	3.52	6.41	4.24
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	---	3.48	24.4	30.1	13.4
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	---	< 0.5	9.43	8.00	1.81
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	---	112	19.6	57.6	441
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	---	17.2	< 9	< 9	37.2
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	---	6.5	n.a.	n.a.	12
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	---	0.064	0.285	0.960	0.198
Lead	mg/L	Total Available - APHA 3125 ICPMS	<0.001	---	< 0.001	0.001	< 0.001	< 0.001
Sodium Absorption Ratio	---	** Calculation	---	---	30	2.2	6.4	24
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	---	SE275919	SE275919	SE275919	SE275919
Benzene	µg/L	** Subcontracted SGS Laboratories Australia	---	---	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	** Subcontracted SGS Laboratories Australia	---	---	<0.5	<0.5	<0.5	1.6

Certificate of Analysis

Request ID: EAL/E24-00-2092 Report ID: E24-00-2092_EALP3_3 Issue date: 06 February 2025

				Client Sample ID:	BAN2-D	BQS1-S	BQS1-I	BQS1-D
				Sample Date:	10 December 2024	10 December 2024	10 December 2024	10 December 2024
				EAL Sample ID:	E24-00-2092-0006	E24-00-2092-0007	E24-00-2092-0008	E24-00-2092-0009
Parameter	Unit	Method Reference	LOR	---	---	---	---	---
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	---	SE275919	SE275919	SE275919	SE275919	SE275919
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	---	SE275919	SE275919	SE275919	SE275919	SE275919
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	<100	<100
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<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	<100	<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	<100	<100	<100	<100
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.013	0.034	0.015	0.008	0.008
Lead	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Oils and Grease	mg/L	APHA 5520-D (hexane extractable)	<2	< 2	< 2	< 2	< 2	< 2
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	---	---	---	---	---
TRH C10-C14-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<50	---	---	---	---	---
TRH C15-C28-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<200	---	---	---	---	---
TRH C29-C36-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<200	---	---	---	---	---
TRH C37-C40-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<200	---	---	---	---	---
TRH >C10-C16-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<60	---	---	---	---	---
TRH >C16-C34-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<500	---	---	---	---	---
TRH >C34-C40-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<500	---	---	---	---	---
TRH Sum C10-C36-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<450	---	---	---	---	---
TRH Sum C10-C40-Silica	µg/L	** Subcontracted SGS Laboratories Australia	<650	---	---	---	---	---

Certificate of Analysis

Request ID: EAL/E24-00-2092 Report ID: E24-00-2092_EALP3_3 Issue date: 06 February 2025

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.
- mg/L = ppm
- For conductivity 1 dS/m = 1 mS/cm = 1000 μ S/cm.