

RESULTS OF WATER ANALYSIS

12 samples supplied by Ground Water Data Collection Service on 3/03/2020 . Lab Job No. J1370.

Samples submitted by Mathew Baker. Your Job: Blakebrook Quarry

2 Tildon Drive CLUNESNSW 2480

Parameter	Methods reference	Sample 10	Sample 11	Sample 12
		BQSW1	BQSW2	BQSW3
	Job No.	J1370/10	J1370/11	J1370/12
pH	APHA 4500-H ⁺ -B	7.51	7.22	7.31
Conductivity (EC) (dS/m)	APHA 2510-B	0.316	0.132	0.143
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	215	90	97
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	33	87	31
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Total Alkalinity - APHA 2320	..	..	..
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	..	..	..
Phosphate (mg/L P)	APHA 4500 P-G	..	..	..
Nitrate (mg/L N)	APHA 4500 NO ₃ -F	..	..	..
Nitrite (mg/L N)	APHA 4500 NO ₂ -I	..	..	..
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	..	..	..
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Lead (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Lead (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Potassium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Sodium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Chloride (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
Sulfur (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	..	..	..
BTEX				
Benzene (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
Toluene (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
Ethylbenzene (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
m/p-Xylene (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
o-Xylene (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
Naphthalene (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
Total Recoverable Hydrocarbons (TRH)				
C6-C9 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
C10-C14 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
C15-C28 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
C29-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
C10-C16 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
C16-C34 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
C34-C40 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..
Sum C10-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	..	..	..

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.
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- Results relate only to the samples tested.
- This report was issued on 17/03/2020.



RESULTS OF WATER ANALYSIS

3 samples supplied by Ground Water Data Collection Service on 3/06/2020 . Lab Job No. J4461.

Samples submitted by Mathew Baker. Your Job: Blakebrook Quarry

2 Tildon Drive CLUNES NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		BQSW1 3/6/20	BQSW2 3/6/20	BQSW3 3/6/20
	<i>Job No.</i>	J4461/1	J4461/2	J4461/3
pH	APHA 4500-H ⁺ -B	7.35	7.64	7.54
Conductivity (EC) (dS/m)	APHA 2510-B	0.729	0.172	0.166
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	496	117	113
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	9	16	15

Notes:

- 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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checked:
Graham Lancaster
Laboratory Manager

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 3/09/2020 . Lab Job No. J7918.

Samples submitted by Lise Bolton. Your Job: SMC010-Blakebrook WQ-Surface Water-SEPT20

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW1 3/9/20	SW2 3/9/20	SW3 3/9/20
	<i>Job No.</i>	<i>J7918/1</i>	<i>J7918/2</i>	<i>J7918/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	66	1	4
Phosphate (mg/L P)	APHA 4500 P-G	0.007	0.015	0.016
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	<0.005	<0.005	<0.005
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	0.014	0.015	0.013
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.100	0.109	0.040

Notes:

- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- 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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checked:
Graham Lancaster
Laboratory Manager

RESULTS OF WATER ANALYSIS

2 samples supplied by Ecoteam on 7/12/2020 . Lab Job No. K1377.

Samples submitted by Lise Bolton. Your Job: SMC010-Blakebrook WQ-Surface Water-Dec20

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2
		SW2 300 02/12/2020	SW3 300 02/12/2020
	<i>Job No.</i>	<i>K1377/1</i>	<i>K1377/2</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	15	15
Phosphate (mg/L P)	APHA 4500 P-G	0.023	0.014
Nitrate (mg/L N)	APHA 4500 NO ₃ -F	<0.005	<0.005
Nitrite (mg/L N)	APHA 4500 NO ₂ -I	0.006	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.052	0.044

Notes:

- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- 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.
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- This report was issued on 14/12/2020.

