


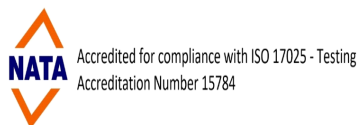


Analysis and Testing Report - Walker Quarries Bi-Annual Groundwater Monitoring, May 2024

Report To: Wayne Chapman
Address: Lot 6 Great Western Highway,
Wallerawang NSW 2845
Report On: Walker Quarries
Bi-Annual Groundwater Monitoring, May
2024
Report No: 2400-7420-05-02 Amended 01
Report Status: Final Report
Date Sampled: 31/05/2024
Unique ID of Sample(s): As per Result tab
Sampled By: B. Collins & C. Bulkeley
Testing & Analysis Requirements: Client Instructions
Report Prepared By: Trudie MacPhee
Date Reported: 13/06/2024
Re-issued 17/06/2024
Reported By: 
Adriana Hernandez
Environmental Project/Quality Officer -
Lithgow NSW

These reported results only relate to the items sampled and tested.

Sampling performed by: ACIRL Lithgow NSW NATA Accreditation No. 15784, Site No. 11436 in accordance with AS Standards listed on Page 4.



ALS
right solutions.
right partner.
^CIRL Lithgow NSW
BN 66 003 451 876

Analysis and Testing Report-
Walker Quarries
Bi-Annual Groundwater Monitoring



	Units			
Date of Sample		31/05/2024		
Report No:		2400-7420-05-02 Amended 01		
ALS Sydney Report No.		ES2418246		
Site Reference		GW1	GW2	GW3
Sampled by		B.Collins & C. Buck		
General Comments/ Observations		31/05/2024	31/05/2024	31/05/2024
pH Value	pH Unit	7.66	6.91	6.78
Electrical Conductivity	µS/cm	680	230	234
Standing Water Level	m	17.03	40.86	40.86
Total Volume Purged	L	3.0	2.0	2.0
Alkalinity by PC Titrator				
Hydroxide Alkalinity as CaCO ₃	mg/L	<1	<1	<1
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1
Bicarbonate Alkalinity as CaCO ₃	mg/L	296	83	85
Total Alkalinity as CaCO ₃	mg/L	296	83	85
Chloride by Discrete Analyser				
Chloride	mg/L	20	12	12
Sulfate (Turbidimetric) as SO ₄				
Sulfate as SO ₄ - Turbidimetric	mg/L	43	15	12
Dissolved Major Cations				
Calcium	mg/L	85	20	20
Magnesium	mg/L	10	4	4
Sodium	mg/L	67	27	26
Potassium	mg/L	6	2	2
Dissolved Metals by ICP-MS				
Arsenic	mg/L	0.002	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001
Chromium	mg/L	0.005	<0.001	<0.001
Copper	mg/L	0.002	0.003	0.002
Lead	mg/L	0.003	<0.001	<0.001
Nickel	mg/L	0.007	0.012	0.009
Zinc	mg/L	0.439	0.313	0.107
Dissolved Mercury by FIMS				
Mercury	mg/L	<0.0001	<0.0001	<0.0001



Analysis and Testing Report-
Walker Quarries
Bi-Annual Groundwater Monitoring

METHODS OF ANALYSIS

Tests for results issued in this report have been carried out at the following NATA accredited laboratories in accordance with the methods as detailed below:-

TEST	METHOD	ACIRL Lithgow NATA Accreditation #11436	Measure of Uncertainty
Electrical Conductivity uS/cm	CBM-E006	APHA 2510 B	2.0%
pH value	CBM-E005	APHA 4500 H	0.10 pH Units

The remaining analysis performed at ALS Environmental, 277-289 Woodpark Rd, Smithfield, NSW 2164.

Low yielding bores have been purged to dryness, otherwise bores purged to constant Electrical Conductivity

Report No: 2400-7420-05-02 Amended 01
ALS Sydney Report No. ES2418246

Samples were analysed in accordance with the following Australian Standards or equivalent:

Australian Standards	Description
AS/NZS 5667.1	Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples
ISO 5667-3	Part 3: Preservation and handling of water samples
AS/NZS 5667.11	Part 11: Guidance on sampling of ground waters