



**ALS AIRBORNE DUST AND WATER
ANALYSIS AND TESTING REPORT**

REPORT TO: Walker Quarries

REPORT ON: Walker Quarries
Dust & Water Results

REPORT NO: 24005723

PERIOD OF EXPOSURE: Dust - Typically 30 days +/- 2 days
Water - Monthly

SAMPLED BY: ALS Staff

REPORTED BY: Natalie McMillan

REPORT DATE: 12-August-2016



Accreditation # 15784
Site # 11436

Accredited for compliance with ISO/IEC 17025.

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**ALS AIRBORNE DUST
ANALYSIS AND TESTING REPORT**



WALKER QUARRY

Month Aug-16
Date Replaced 7/07/2016
Date Collected 8/08/2016

DUST DEPOSITION RESULTS

(g/m²/month)

<u>GAUGE NO.</u>	<u>INSOLUBLE SOLIDS</u>	<u>*COMBUSTIBLE MATTER</u>	<u>**ASH</u>
DG#1	0.4	0.3	0.1
DG#2	3.2	2.3	0.9
DG#3	1.0	0.2	0.8
DG#4	0.7	0.3	0.4

No. of days exposed: 32

* Result Calculated
** Incombustible Matter
Analysed in accordance with AS3580.10.1

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WALKER QUARRY

Month Aug-16
Date Replaced 7/07/2016
Date Collected 8/08/2016

DUST GAUGE OBSERVATION

GAUGE	ANALYSIS OBSERVATIONS
DG#1	Clear, insects, organic matter, fine brown/grey dust & coarse brown/black/green dust
DG#2	Slightly cloudy, insects, organic matter, fine brown dust & coarse brown/black dust
DG#3	Clear, organic matter, fine grey dust & coarse brown/black dust
DG#4	Clear, insects, organic matter, fine brown dust & coarse brown/black dust

ALS AIRBORNE DUST



Date Collected	Dust Gauge No 1		Dust Gauge No 2		Dust Gauge No 3		Dust Gauge No 4	
	Insoluble Solids	Rolling 12 months Average	Insoluble Solids	Rolling 12 months Average	Insoluble Solids	Rolling 12 months Average	Insoluble Solids	Rolling 12 months Average
Jul-15		0.00	2.9	2.48		0.00	1.5	1.69
Aug-15		0.00	3.8	2.69		0.00	0.5	1.53
Sep-15		0.00	1.3	2.72		0.00	2.2	1.60
Oct-15		0.00	0.3	2.66		0.00	0.6	1.53
Nov-15		0.00	3.7	2.67		0.00	1.3	1.53
Dec-15		0.00	0.9	2.60		0.00	0.8	1.53
Jan-16		0.00	1.1	2.58		0.00	8.3	1.95
Feb-16		0.00	0.6	2.31		0.00	14.4	3.03
Mar-16		0.00	0.7	1.96		0.00	1.6	2.98
Apr-16		0.00	0.9	1.79		0.00	5.3	3.26
May-16	1	0.00	0.4	1.65	1.1	0.00	0.5	3.24
Jun-16	0.7	0.00	5.4	1.83	1.3	0.00	0	3.08
Jul-16	1.2	0.00	4.6	1.98	0.3	0.00	19.5	4.58

**ALS WATER
ANALYSIS AND TESTING REPORT**



WALKER QUARRY

	Units		
ALS Sydney Report No.		ES1617405	
Date of Sample		8/08/2016	
Site Reference		Cox's U/S	Cox's D/S
Site Reference		SD3	SD4
Sampled by		D. Shawcross & S. McMillan	
General Comments/ Observations		Clear, High Flow	Clear, High Flow
Time	24 Hr	9:00	9:50
Temperature	°C	9.2	8.7
pH	pH Unit	8.24	8.41
Electrical Conductivity	µS/cm	840	803
Total Suspended Solids	mg/L	<5	<5
Sulphur Sulphate (SO ₄)	mg/L	149	141
Dissolved Metals by ICP-MS			
Manganese	mg/L	0.031	0.019
Iron	mg/L	0.12	0.13
Oil & Grease	mg/L	<5	<5

ALS AIRBORNE DUST AND WATER ANALYSIS AND TESTING REPORT

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:-

ACIRL Report No: 24005723

DUST

TEST	METHOD	LABORATORY
		ACIRL Lithgow NATA Accreditation #11436
Dust (Deposited matter gravimetric method)	3580.10.1	X

In accordance with "Methods for sampling and analysis of ambient air.
Method 10.1: Determination of particulate matter- Deposited matter-Gravimetric method"

WATER

TEST	METHOD	LABORATORY	
		ACIRL Lithgow NATA Accreditation #11436	ALS Sydney NATA Accreditation # 825
Electrical Conductivity uS/cm	CBM-E006	X	
pH value	CBM-E005	X	
Total Dissolved Solids	CBM-E007	X	
Total Suspended Solids (mg/l)	CBM-E008	X	
Total Oil & Grease	EP020		X
Manganese	EG020F		X
Iron	EG020F		X
Sulfate (mg/l)	ED014G		X

In accordance with "Standard Methods for the Examination of Water & Wastewater" APHA, AWWA, and Water & Wastewater Examination Manual (V. Dean Adams)

Preservation procedures in accordance with AS/NZS 5667/1 when sampled by ACIRL staff unless otherwise stated.