



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

**REPORT TO:** Walker Quarries

**REPORT ON:** Walker Quarries  
Dust & Water Results

**REPORT NO:** 24005588

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

**SAMPLED BY:** ALS Staff

**REPORTED BY:** Natalie McMillan

**REPORT DATE:** 21-April-2016



Accreditation # 15784  
Site # 11436

Accredited for compliance with ISO/IEC 17025.

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*A Campbell Brothers Limited Company*

# ALS AIRBORNE DUST ANALYSIS AND TESTING REPORT

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## WALKER QUARRY

Month Apr-16  
Date Replaced 15/03/2016  
Date Collected 13/04/2016

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### DUST DEPOSITION RESULTS

(g/m<sup>2</sup>/month)

<u>GAUGE NO.</u>	<u>INSOLUBLE SOLIDS</u>	<u>*COMBUSTIBLE MATTER</u>	<u>**ASH</u>
DG#2	0.9	0.4	0.5
DG#4	5.3	0.7	4.6

No. of days exposed: 29

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

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## WALKER QUARRY

Month Apr-16  
Date Replaced 15/03/2016  
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### DUST GAUGE OBSERVATION

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

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## WALKER QUARRY

Month Apr-16  
Date Replaced 30/03/2016  
Date Collected 13/04/2016

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### DUST DEPOSITION RESULTS

(g/m<sup>2</sup>/month)

<u>GAUGE NO.</u>	<u>INSOLUBLE SOLIDS</u>	<u>*COMBUSTIBLE MATTER</u>	<u>**ASH</u>
DG#1	0.8	0.2	0.6
DG#3	1.5	0.3	1.2

No. of days exposed: 14

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

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## WALKER QUARRY

Month            Apr-16  
Date Replaced   30/03/2016  
Date Collected   13/04/2016

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### DUST GAUGE OBSERVATION

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

**ALS WATER  
ANALYSIS AND TESTING REPORT**

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**WALKER QUARRY**

	Units		
ALS Sydney Report No.		ES1608062	
Date of Sample		13/04/2016	
Site Reference		Cox's U/S	Cox's D/S
Site Reference		SD3	SD4
Sampled by		J. Takahira, N. McMillan & D. Shawcross	
General Comments/ Observations		Clear, Mod Flow	Clear, High Flow
Time	24 Hr	9:05	14:10
Temperature	°C	18.3	19.0
pH	pH Unit	8.92	8.99
Electrical Conductivity	µS/cm	1176	1168
Total Suspended Solids	mg/L	<5	<5
Sulphur Sulphate (SO <sub>4</sub> )	mg/L	123	122
<b>Dissolved Metals by ICP-MS</b>			
Manganese	mg/L	0.009	0.010
Iron	mg/L	<0.05	<0.05
Oil & Grease	mg/L	<5	<5

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# 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: 24005588

### 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 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.