

ATTACHMENT 11

AIR QUALITY REPORT

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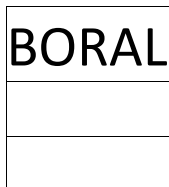
Report Template - Rev. (2) April 2017 - Authorised by M.A.

TEST REPORT

CLIENT P.F. FORMATION

1774 Wisemans Ferry Road Maroota NSW 2756

PROJECT: Gravimetric Dust Monitoring at Maroota for June 2018



Boral Construction Materials
Materials Technical Services

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FILE No: 250 / 18

REQUEST No.:79170

TEST PROCEDURE: AS 3580.10.1 - 2003 - Methods for Sampling and Analysis of Ambient Air Method 10.1 - Determination of Particulate Matter - Deposited Matter - Gravimetric Method

Lab Sample Number:	206716	206717	206718	206719
Site Location Number:	1	2	3	4
Sample Description:	Dust			
Sampling Period:	From	1.06.18	to	207.18

TEST RESULTS:

Insoluble Solids (g/m ² month)	2.53	1.85	2.40	2.16
Ash (g/m ² month)	1.38	1.41	1.54	1.60
Combustible Matter (g/m ² month)	1.15	0.43	0.87	0.56
Soluble Matter (g/m ² month)	1.50	1.91	2.10	1.81
Total Solids (g/m ² month)	4.03	3.76	4.50	3.97
Volume of Liquid in the Gauge (ml)	1200			

Notes:

- Refer to attached graphs.
- Samples submitted by the Client.
- For Site No.1 Recent mowing grass nearby.

J.Graham, Mat. File, File.

NATA

Approved



S. Krishnamoorthy

Signatory
169195

ACCREDITED FOR
TECHNICAL

Date 9.7.18. Serial No. _____
Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 9968

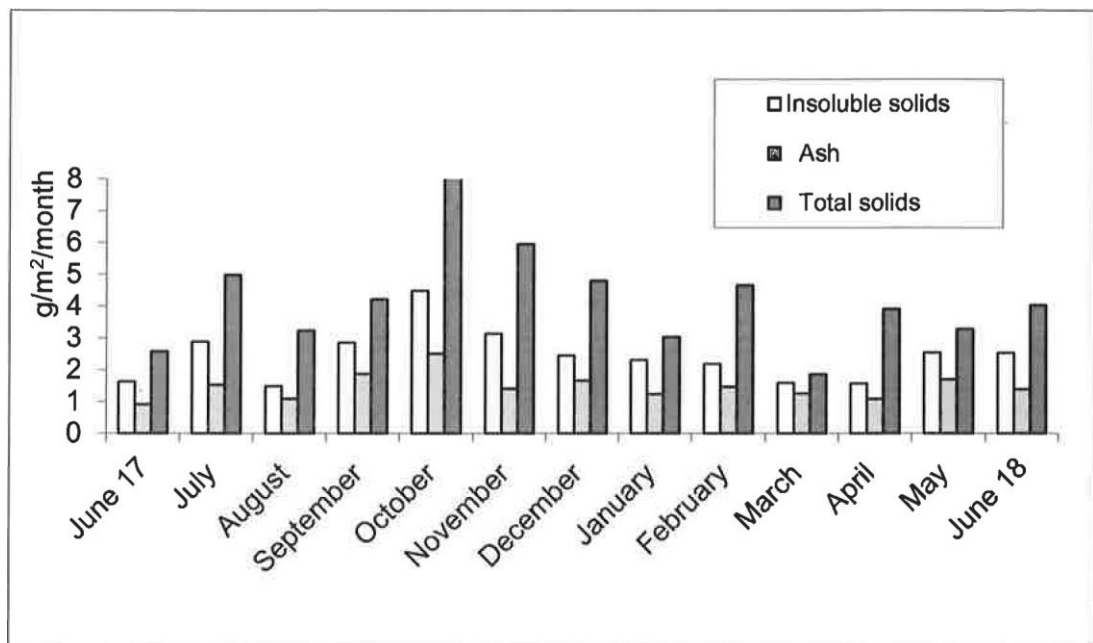
COMPETENCE

MARROOTA Site 1

Maroota Public

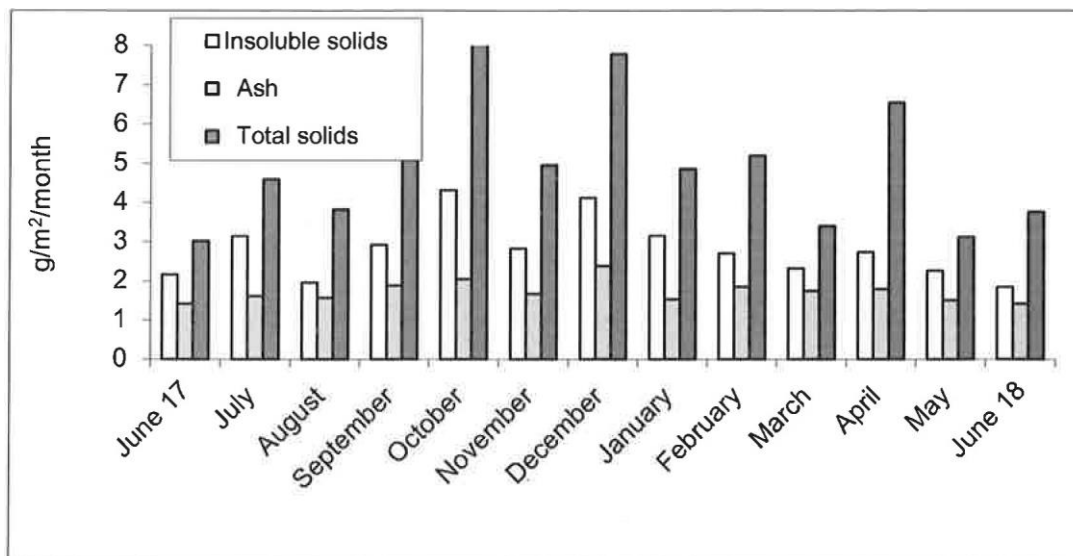
School

	Insoluble solids	Ash	Total solids
June 17	1.63	0.91	2.58
July	2.88	1.53	
August	1.49	1.09	3.24
September	2.85	1.87	4.22
October	4.49	2.51	12.16
November	3.13	1.41	5.95
December	2.45	1.66	4.80
January	2.31	1.23	3.03
February	2.18	1.47	4.66
March	1.59	1.26	1.86
April	1.57	1.08	3.91
May	2.54	1.70	3.29
June 18	2.53	1.38	4.03



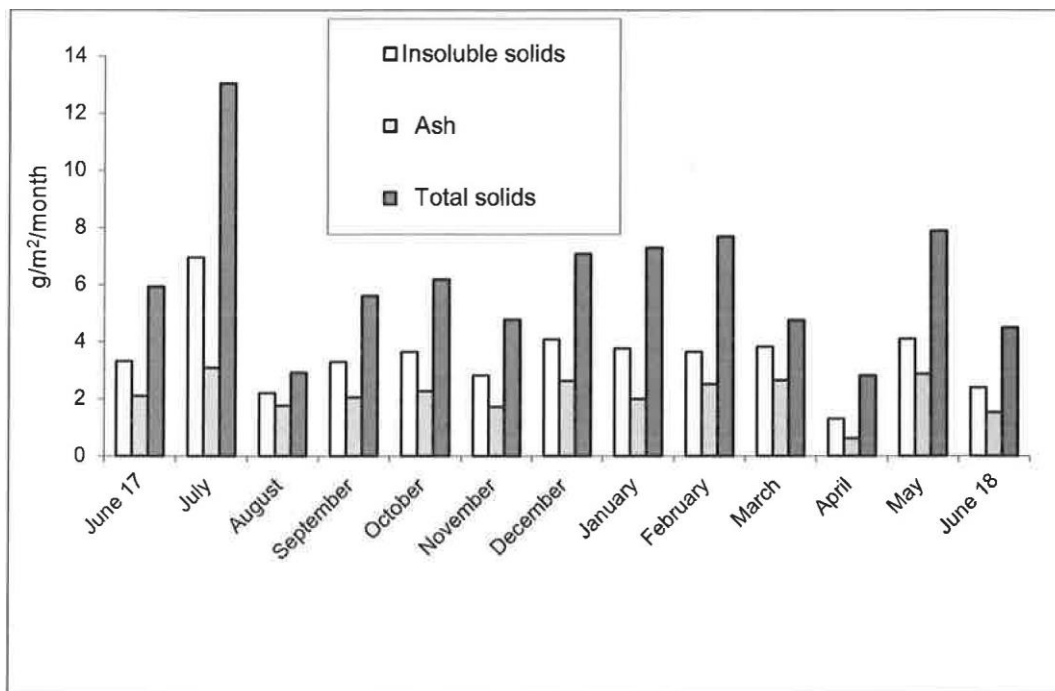
Hitchcock Road

	Insoluble solids	Ash	Total solids
June 17	2.16	1.42	3.02
July	3.14	1.61	4.59
August	1.96	1.57	3.82
September	2.92	1.88	5.48
October	4.31	2.05	12.41
November	2.82	1.67	4.95
December	4.12	2.38	7.78
January	3.15	1.53	4.85
February	2.70	1.85	5.19
March	2.32	1.74	3.40
April	2.73	1.79	6.55
May	2.26	1.51	3.12
June 18	1.85	1.41	3.76



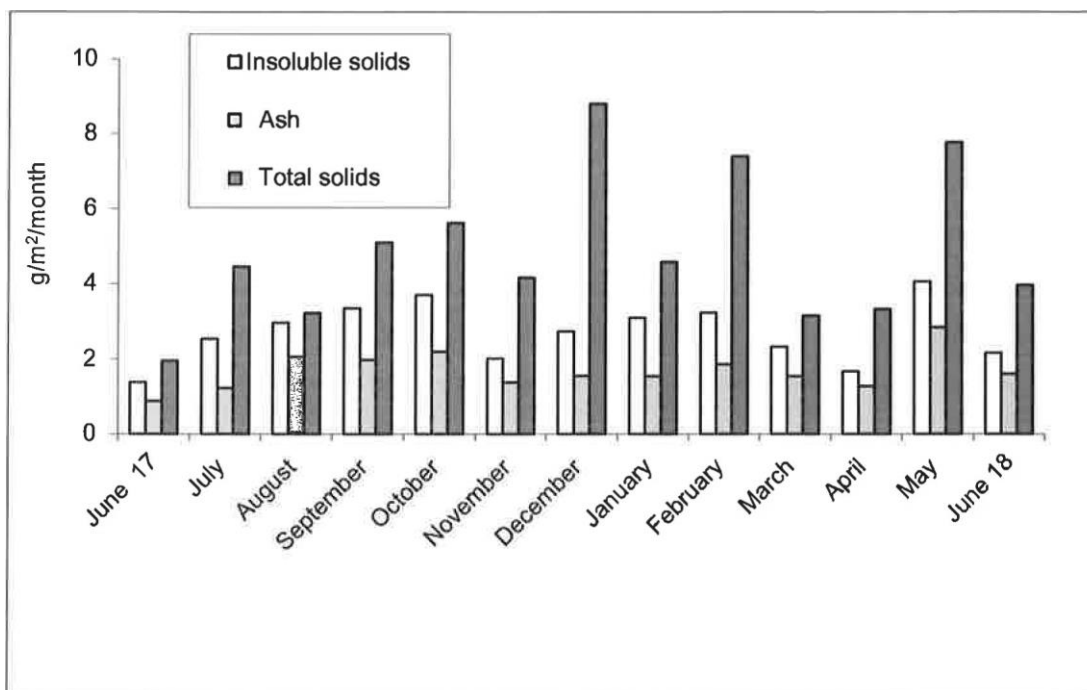
Jurd's House

	Insoluble solids		Total solids
June 17	3.32	2.10	5.94
July	6.96	3.09	13.04
August	2.21	1.77	2.93
September	3.30	2.06	5.61
October	3.64	2.27	6.19
November	2.82	1.72	4.78
December	4.08	2.63	7.08
January	3.77	2.00	7.30
February	3.64	2.52	7.69
March	3.82	2.66	4.76
April	1.31	0.62	2.82
May	4.11	2.88	7.88
June 18	2.40	1.54	4.50



Lot 2 DP 510812

	Insoluble solids		Total solids
June 17	1.38	0.88	1.95
July	2.53	1.22	4.45
August	2.96	2.05	3.22
September	3.35	1.98	5.10
October	3.70	2.19	5.62
November	2.01	1.38	4.16
December	2.73	1.55	8.81
January	3.09	1.54	4.58
February	3.23	1.86	7.40
March	2.32	1.54	3.15
April	1.67	1.27	3.32
May	4.06	2.84	7.78
June	2.16	1.60	3.97



ATTACHMENT 12

SURFACE WATER MONITORING RESULTS

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Test Report

CLIENT: P.F. Formation

ADDRESS: 1774 Wisemans Ferry Road MAROOTA NSW 2756

PROJECT: Testing of Water from P.F. Formation.

FILE No.: 250/18

REQUEST No.: 77238

TEST PROCEDURE: APHA 4500 H⁺B - pH Value - Electrometric Method
APHA 2130 B - Turbidity - Nephelometric Method
APHA 5520 C - Oil & Grease - Partition-Infrared Method
APHA 2540 D - Total Suspended Solids Dried at 103-105 °C
APHA 2510 B - Conductivity - Laboratory Method

Laboratory Sample No.: 201726
Date Sampled: 01/03/18
Date Received: 01/03/18
Sample Description: Water -
Hitchcock Rd
Little Cattai Creek
- 8.30am

Field No.: 3

TEST RESULTS

pH	6.9
Turbidity (NTU)	8.0
Oil & Grease (mg/L)*1	0.1
Total Suspended Solid (mg/L)	10
Conductivity (µS/cm)	217
Sample submitted by the Client.	

NOTE:

*1 Solvent used in the determination of Solvent Extractable Matter for Oil & Grease analysis: Polychlorotrifluoroethylene S316.

J. Graham, Q.C. File, Mat. File, File.



Approved Signatory

N.S.

Nanthini Selvadurai

Date 03-05-18

Serial No. 167484

NATA Accredited Laboratory

Number: 9968

Accredited for compliance with ISO/IEC 17025

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Test Report

CLIENT: P.F. Formation

ADDRESS: 1774 Wisemans Ferry Road MAROOTA NSW 2756

PROJECT: Testing of Water from P.F. Formation.

FILE No.: 250/18

REQUEST No.: 78627

TEST PROCEDURE: APHA 4500 H+B - pH Value - Electrometric Method
APHA 2130 B - Turbidity - Nephelometric Method
APHA 5520 C - Oil & Grease - Partition-Infrared Method
APHA 2540 C - Total Dissolved Solids Dried at 180°C
APHA 2540 D - Total Suspended Solids Dried at 103-105 °C
APHA 2510 B - Conductivity - Laboratory Method

Laboratory Sample No.: 205344
Date Sampled: 01/06/18
Date Received: 04/06/18
Sample Description: Water –
Hitchcock Rd
Little Cattai Creek
Field No.: 3

TEST RESULTS

pH 6.0
Turbidity (NTU) 2.8
Oil & Grease (mg/L)*1 0.1
Total Dissolved Solids (mg/L) 106
Total Suspended Solid (mg/L) 5.0
Conductivity (µS/cm) 189

Sample submitted by the Client.

NOTE:

*1 Solvent used in the determination of Solvent Extractable Matter for Oil & Grease analysis: Polychlorotrifluoroethylene S316.

J. Graham, Q.C. File, Mat. File, File.



Approved Signatory

Nanthini Selvadurai

Date 21-07-18 Serial No. 170092

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 9968

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Test Report

CLIENT: P.F. Formation

ADDRESS: 1774 Wisemans Ferry Road MAROOTA NSW 2756

PROJECT: Testing of Water from P.F. Formation.

FILE No.: 250/17

REQUEST No.: 74736

TEST PROCEDURE: APHA 4500 H⁺B - pH Value - Electrometric Method
APHA 2130 B - Turbidity - Nephelometric Method
APHA 5520 C - Oil & Grease - Partition-Infrared Method
APHA 2540 D - Total Suspended Solids Dried at 103-105 °C
APHA 2510 B - Conductivity - Laboratory Method

Laboratory Sample No.: 196015
Date Sampled: 1/09/2017
Date Received: 1/09/2017
Sample Description: Water -
Downstream -
Lot 198

Field No.: 2

TEST RESULTS

pH	6.9
Turbidity (NTU)	5.4
Oil & Grease (mg/L)*1	0.1
Total Suspended Solid (mg/L)	2.0
Conductivity (µS/cm)	188
Sample submitted by the Client.	

NOTE:

*1 Solvent used in the determination of Solvent Extractable Matter for Oil & Grease analysis: Polychlorotrifluoroethylene S316.

J. Graham, Q.C. File, Mat. File, File.



Approved Signatory

Cynthia Tjiam

Date 18-09-2017 Serial No. 161050

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 9968

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Test Report

CLIENT: P.F. Formation

ADDRESS: 1774 Wisemans Ferry Road MAROOTA NSW 2756

PROJECT: Testing of Water from P.F. Formation.

FILE No.: 250/17

REQUEST No.: 76122

TEST PROCEDURE: APHA 4500 H⁺B - pH Value - Electrometric Method
APHA 2130 B - Turbidity - Nephelometric Method
APHA 5520 C - Oil & Grease - Partition-Infrared Method
APHA 2540 D - Total Suspended Solids Dried at 103-105 °C
APHA 2510 B - Conductivity - Laboratory Method

Laboratory Sample No.: 199020
Date Sampled: 1/12/2017
Date Received: 1/12/2017
Sample Description: Water -
Downstream - Lot
198
Field No.: 2

TEST RESULTS

pH 6.7
Turbidity (NTU) 6.0
Oil & Grease (mg/L)*1 0.3
Total Suspended Solid (mg/L) 1.6
Conductivity (µS/cm) 183
Sample submitted by the Client.

NOTE:

*1 Solvent used in the determination of Solvent Extractable Matter for Oil & Grease analysis: Polychlorotrifluoroethylene S316.

J. Graham, Q.C. File, Mat. File, File.



Approved Signatory

Cynthia Tjiam

Date 08-12-2019

Serial No. 163380

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 9068

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Test Report

CLIENT: P.F. Formation

ADDRESS: 1774 Wisemans Ferry Road MAROOTA NSW 2756

PROJECT: Testing of Water from P.F. Formation.

FILE No.: 250/18

REQUEST No.: 77238

TEST PROCEDURE: APHA 4500 H⁺B - pH Value - Electrometric Method
APHA 2130 B - Turbidity - Nephelometric Method
APHA 5520 C - Oil & Grease - Partition-Infrared Method
APHA 2540 D - Total Suspended Solids Dried at 103-105 °C
APHA 2510 B - Conductivity - Laboratory Method

Laboratory Sample No.: 201725
Date Sampled: 01/03/18
Date Received: 01/03/18
Sample Description: Water -
Downstream - Lot
198
Field No.: 2

TEST RESULTS

pH 7.0
Turbidity (NTU) 2.1
Oil & Grease (mg/L)*1 0.2
Total Suspended Solid (mg/L) 6.0
Conductivity (µS/cm) 296
Sample submitted by the Client.

NOTE:

*1 Solvent used in the determination of Solvent Extractable Matter for Oil & Grease analysis: Polychlorotrifluoroethylene S316.

J. Graham, Q.C. File, Mat. File, File.



Approved Signatory

Nanthini Selvadurai

Date 03-05-18

Serial No.

167483

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 9968



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Test Report

CLIENT: P.F. Formation

ADDRESS: 1774 Wisemans Ferry Road MAROOTA NSW 2756

PROJECT: Testing of Water from P.F. Formation.

FILE No.: 250/18

REQUEST No.: 78627

TEST PROCEDURE: APHA 4500 H+B - pH Value - Electrometric Method
APHA 2130 B - Turbidity - Nephelometric Method
APHA 5520 C - Oil & Grease - Partition-Infrared Method
APHA 2540 C - Total Dissolved Solids Dried at 180°C
APHA 2540 D - Total Suspended Solids Dried at 103-105 °C
APHA 2510 B - Conductivity - Laboratory Method

Laboratory Sample No.: 205343
Date Sampled: 01/06/18
Date Received: 04/06/18
Sample Description: Water -
Downstream - Lot
198
Field No.: 2

TEST RESULTS

pH 7.3
Turbidity (NTU) 2.3
Oil & Grease (mg/L)*1 < 0.1
Total Dissolved Solids (mg/L) 124
Total Suspended Solid (mg/L) 3.5
Conductivity (µS/cm) 202

Sample submitted by the Client.

NOTE:

*1 Solvent used in the determination of Solvent Extractable Matter for Oil & Grease analysis: Polychlorotrifluoroethylene S316.

J. Graham, Q.C. File, Mat. File, File.



Approved Signatory

Nanthini Selvadurai

Date 27-07-18

Serial No.

170091

Accredited for compliance with ISO/IEC 17025

NATA Accredited Laboratory

Number: 9968