

Multiquip Aggregates P/L 260 Tenth Ave Austral NSW 2179

Attention:

- Steve Mikosic

52153
ARD
Oct 2

521531-A ARDMORE PARK QUARRY Oct 28, 2016

Client Sample ID			1	2	3	4
Sample Matrix			Dust Deposition	Dust Deposition	Dust Deposition	Dust Deposition
Eurofins mgt Sample No.			M16-Oc26915	M16-Oc26916	M16-Oc26917	M16-Oc26918
Date Sampled			Oct 10, 2016	Oct 10, 2016	Oct 10, 2016	Oct 10, 2016
Test/Reference	LOR	Unit				
Insoluble Solids	0.1	g/m2/mth	0.3	0.2	0.1	0.5
Soluble Solids	0.1	g/m2/mth	< 0.1	0.3	0.4	< 0.1
Total Solids	0.1	g/m2/mth	0.3	0.5	0.5	0.5
Volume (total)*	1	mL	2300	2300	2000	2100

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NATA

WORLD RECOGNISED

Certificate of Analysis

NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Insoluble Solids	Melbourne	Oct 28, 2016	7 Day
- Method: Insoluble Solids - Deposited Matter AS/NZ 3580.10.1 : 2003			
Soluble Solids	Melbourne	Oct 28, 2016	7 Day
- Method: Total Solids calculated by addition & Insoluble Lead results calculated by difference.			
Total Solids	Melbourne	Oct 28, 2016	7 Day
- Method: Total Solids - Deposited Matter AS/NZ 3580.10.1 : 2003			



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Melbourne 2-5 Kingston Town Close Oakleigh VIC 3166 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271 Sydney Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Site # 18217 Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794

Company Name: Multiquip Aggregates P/L Address: 260 Tenth Ave Austral NSW 2179 Project Name: ARDMORE PARK QUARRY						Order No.: Report #: Phone: Fax:				Received: Oct 28, 2016 10:44 AM 521531 Due: Nov 7, 2016 02 9606 9011 Priority: 5 Day 02 9606 0557 Contact Name: - Steve Mikosic
Sample Detail						Insoluble Solids	Soluble Solids	Total Solids	Volume (total)*	
-	Melbourne Laboratory - NATA Site # 1254 & 14271						Х	Х	Х	
Sydney Laboratory - NATA Site # 18217 Brisbane Laboratory - NATA Site # 20794										
	nal Laboratory		20794							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	1	Oct 10, 2016		Dust Deposition	M16-Oc26915	х	х	х	х	
2	2	Oct 10, 2016		Dust Deposition	M16-Oc26916	х	х	х	х	
3	3	Oct 10, 2016		Dust Deposition	M16-Oc26917	х	х	х	х	
4	4	Oct 10, 2016		Dust Deposition	M16-Oc26918	х	х	х	х	
Test Counts						4	4	4	4	



Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil results are reported on a dry basis, unless otherwise stated.
- 3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 4. Results are uncorrected for matrix spikes or surrogate recoveries.
- 5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

**NOTE: pH duplicates are reported as a range NOT as RPD

Units

 mg/kg: milligrams per Kilogram
 mg/l: milligrams per litre

 ug/l: micrograms per litre
 ppm: Parts per million

 ppb: Parts per billion
 %: Percentage

 org/100ml: Organisms per 100 millilitres
 NTU: Nephelometric Turbidity Units

 MPN/100mL: Most Probable Number of organisms per 100 millilitres
 Hercentage

	Terms	
I	Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
I	LOR	Limit of Reporting.
5	SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
F	RPD	Relative Percent Difference between two Duplicate pieces of analysis.
I	LCS	Laboratory Control Sample - reported as percent recovery
(CRM	Certified Reference Material - reported as percent recovery
I	Method Blank	In the case of solid samples these are performed on laboratory certified clean sands.
		In the case of water samples these are performed on de-ionised water.
\$	Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
I	Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
E	Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
E	Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
l	USEPA	United States Environmental Protection Agency
1	APHA	American Public Health Association
٦	TCLP	Toxicity Characteristic Leaching Procedure
(COC	Chain of Custody
\$	SRA	Sample Receipt Advice
(CP	Client Parent - QC was performed on samples pertaining to this report
1	NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
٦	TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- 5. Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- 6. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Andrew Black Huong Le

Analytical Services Manager Senior Analyst-Inorganic (VIC)

Glenn Jackson National Operations Manager Final report - this Report replaces any previously issued Report

- Indicates Not Requested

- * Indicates NATA accreditation does not cover the performance of this service
- Measurement uncertainty of test data is available on request or please click here.

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