

### **CERTIFICATE OF ANALYSIS**

**KIWA PAI** The Inspire **Hornbeam Square West** Harrogate **North Yorkshire** HG2 8PA

Report Date 19 September 2023 ATL Reference A-KIW001/237/23-11 Date Received 25 August 2023 Test Date 25 August 2023 Purchase Order 1000362881 Sampled By Samples as Received

Sample of: Fertilisers , Date  Time Tak	en: 09/08/2023 Unknown					
Sample Information * Penderyn Quarry (Ground Limestone)						
Batch Code Hanson Aggregates	3	AGL	0075			
Method	Method Reference	<u>Result</u>	Unit	<u>Status</u>		
Calcium as Ca	010-018	36.3	<u></u> % m/m	N		
Calcium as CaO	010-018	50.8	% m/m	N		
Magnesium as Mg	010-018	0.8	% m/m	Ν		
Magnesium as MgO	010-018	1.40	% m/m	Ν		
Wet sieving <5.0mm	010-012	100	% m/m	Ν	Pass	Lower Limit: 99.99   Upper Limit: 100
Wet sieving <3.35mm	010-012	98.6	% m/m	Ν	Pass	Lower Limit: 95   Upper Limit: 100
Wet sieving <3.15mm	010-012	97.0	% m/m	Ν		
Wet sieving <2.00mm	010-012	82.2	% m/m	Ν		
Wet sieving <1.00mm	010-012	55.5	% m/m	Ν		
Wet sieving <0.600mm	010-012	42.8	% m/m	Ν		
Wet sieving <0.500mm	010-012	39.7	% m/m	Ν		
Wet sieving <0.315mm	010-012	31.0	% m/m	Ν		
Wet sieving <0.150mm	010-012	21.6	% m/m	Ν	Fail	Lower Limit: 40   Upper Limit: 100
Wet sieving <0.100mm	010-012	17.9	% m/m	Ν		

sample as received basis	
Analysia Status	

Neutralising Value as CaO -

Reactivity (HCL)

Analysis Status	<u>Code</u>
Analysis is UKAS accredited.	U
Analysis is not UKAS accredited.	Ν

\*Sample information as supplied by Customer.

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010-010

010-011

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49.3

51.1

%

% m/m

(SAR)

Ν

Ν

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Penderyn Quarry (Ground Limestone)					
Batch Code	Hanson Aggregates	AGL 0075			

Method	Method Reference	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	1.4	%	Ν

Authorised By: Steve Johnson, Senior Analyst (Chemistry)

7K

Analysis Status Analysis is UKAS accredited. Analysis is not UKAS accredited.

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Report Date 19 September 2023 ATL Reference A-KIW002/237/23-11 Date Received 25 August 2023 Test Date 25 August 2023 Purchase Order 1000362881 Sampled By Samples as Received

Sample of: Fertilisers , Date  Time T	Taken: 09/08/2023 Unknown					
Sample Information * Machen Quarry (Ground Limestone)						
Batch Code Hanson Aggrega	ites	AGL	. 0076			
Method	Method Reference	<u>Result</u>	<u>Unit</u>	<u>Status</u>		
Calcium as Ca	010-018	18.9	% m/m	Ν		
Calcium as CaO	010-018	26.5	% m/m	Ν		
Magnesium as Mg	010-018	10.0	% m/m	Ν		
Magnesium as MgO	010-018	16.6	% m/m	Ν		
Wet sieving <5.0mm	010-012	100	% m/m	Ν	Pass	Lower Limit: 99.99   Upper Limit: 100
Wet sieving <3.35mm	010-012	99.1	% m/m	Ν	Pass	Lower Limit: 95   Upper Limit: 100
Wet sieving <3.15mm	010-012	98.4	% m/m	Ν		
Wet sieving <2.00mm	010-012	87.8	% m/m	Ν		
Wet sieving <1.00mm	010-012	60.1	% m/m	Ν		
Wet sieving <0.600mm	010-012	46.6	% m/m	Ν		
Wet sieving <0.500mm	010-012	43.1	% m/m	Ν		

34.0

24.9

21.0

18.1

48.0

% m/m

% m/m

% m/m

%

% m/m

(SAR)

Ν

Ν

N

N

Ν

Fail

Lower Limit: 40 | Upper Limit: 100

Analysis Status <u>Code</u> Analysis is UKAS accredited. Analysis is not UKAS accredited.

Wet sieving <0.315mm

Wet sieving <0.150mm

Wet sieving <0.100mm

Neutralising Value as CaO -

sample as received basis

Reactivity (HCL)

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010-012

010-012

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Infor	mation * Machen Quarry (Ground Limestone)	
Batch Code	Hanson Aggregates	AGL 0076

Method	Method Reference	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	5.5	%	Ν

Authorised By: Steve Johnson, Senior Analyst (Chemistry)

7K

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Report Date 19 September 2023 ATL Reference A-KIW003/237/23-11 Date Received 25 August 2023 Test Date 25 August 2023 Purchase Order 1000362881 Sampled By Samples as Received

Sample of: Fertilisers , Date  Time	Taken: 09/08/2023 Unknown					
Sample Information * Lithalun Quarry (Ground Limestone)						
Batch Code Hanson Aggregates AGL 0074						
Method	Method Reference	Result	Unit	<u>Status</u>		
Calcium as Ca	010-018	37.6	% m/m	Ν		
Calcium as CaO	010-018	52.6	% m/m	Ν		
Magnesium as Mg	010-018	1.4	% m/m	Ν		
Magnesium as MgO	010-018	2.40	% m/m	Ν		
Wet sieving <5.0mm	010-012	100	% m/m	Ν	Pass	Lower Limit: 99.99   Upper Limit: 100
Wet sieving <3.35mm	010-012	99.3	% m/m	Ν	Pass	Lower Limit: 95   Upper Limit: 100
Wet sieving <3.15mm	010-012	98.9	% m/m	Ν		
Wet sieving <2.00mm	010-012	89.6	% m/m	Ν		
Wet sieving <1.00mm	010-012	63.4	% m/m	Ν		
Wet sieving <0.600mm	010-012	47.7	% m/m	Ν		
Wet sieving <0.500mm	010-012	44.4	% m/m	Ν		
Wet sieving <0.315mm	010-012	34.0	% m/m	Ν		
Wet sieving <0.150mm	010-012	22.4	% m/m	Ν	Fail	Lower Limit: 40   Upper Limit: 100

Analysis Status <u>Code</u> Analysis is UKAS accredited. U Analysis is not UKAS accredited. Ν

Wet sieving <0.100mm

Neutralising Value as CaO -

sample as received basis

Reactivity (HCL)

\*Sample information as supplied by Customer.

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010-012

010-010

010-011

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18.2

54.2

55.7

% m/m

%

% m/m

(SAR)

Ν

N

Ν

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Lithalun Quarry (Ground Limestone)					
Batch Code	Hanson Aggregates	AGL 0074			

<u>Method</u>	Method Reference	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	<0.1	%	Ν

Authorised By: Steve Johnson, Senior Analyst (Chemistry)

7K

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Sample of: Fertilisers , Date  Time	Taken: 09/08/2023 Unknown					
Sample Information * Batts Combe Quarry (Ground Limestone)						
Batch Code Hanson Aggrega	ates	AGI	_ 0025			
Method	Method Reference	<u>Result</u>	<u>Unit</u>	<u>Status</u>		
Calcium as Ca	010-018	38.3	% m/m	Ν		
Calcium as CaO	010-018	53.7	% m/m	Ν		
Magnesium as Mg	010-018	1.0	% m/m	Ν		
Magnesium as MgO	010-018	1.60	% m/m	Ν		
Wet sieving <5.0mm	010-012	100	% m/m	Ν	Pass	Lower Limit: 99.99   Upper Limit: 100
Wet sieving <3.35mm	010-012	100	% m/m	Ν	Pass	Lower Limit: 95   Upper Limit: 100
Wet sieving <3.15mm	010-012	100	% m/m	Ν		
Wet sieving <2.00mm	010-012	89.3	% m/m	Ν		
Wet sieving <1.00mm	010-012	60.6	% m/m	Ν		
Wet sieving <0.600mm	010-012	45.2	% m/m	Ν		
Wet sieving <0.500mm	010-012	41.4	% m/m	Ν		
Wet sieving <0.315mm	010-012	31.4	% m/m	Ν		
Wet sieving <0.150mm	010-012	20.2	% m/m	Ν	Fail	Lower Limit: 40   Upper Limit: 100
Wet sieving <0.100mm	010-012	16.0	% m/m	Ν		
Reactivity (HCL)	010-010	54.3	%	Ν		
Neutralising Value as CaO -	010-011	56.1	% m/m	Ν		

Analysis Status	Code
Analysis is UKAS accredited.	U
Analysis is not UKAS accredited.	N

sample as received basis

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Infor	mation * Batts Combe Quarry (Ground Limestone	ə)
Batch Code	Hanson Aggregates	AGL 0025

<u>Method</u>	Method Reference	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	0.2	%	Ν

Authorised By: Steve Johnson, Senior Analyst (Chemistry)

7K

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Batts Combe Quarry (Ground Limestone - Fines Plant L101)						
Batch Code Hanson Aggregate	es	AGL	0025			
Method	Method Reference	<u>Result</u>	Unit	<u>Status</u>		
Calcium as Ca	010-018	37.6	<u></u> % m/m	N		
Calcium as CaO	010-018	52.6	% m/m	N		
Magnesium as Mg	010-018	1.4	% m/m	Ν		
Magnesium as MgO	010-018	2.40	% m/m	Ν		
Wet sieving <5.0mm	010-012	100	% m/m	Ν	Pass	Lower Limit: 99.99   Upper Limit: 100
Wet sieving <3.35mm	010-012	100	% m/m	Ν	Pass	Lower Limit: 95   Upper Limit: 100
Wet sieving <3.15mm	010-012	100	% m/m	Ν		
Wet sieving <2.00mm	010-012	99.9	% m/m	Ν		
Wet sieving <1.00mm	010-012	99.9	% m/m	Ν		
Wet sieving <0.600mm	010-012	99.9	% m/m	Ν		
Wet sieving <0.500mm	010-012	99.9	% m/m	Ν		
Wet sieving <0.315mm	010-012	99.8	% m/m	Ν		
Wet sieving <0.150mm	010-012	95.8	% m/m	Ν	Pass	Lower Limit: 40   Upper Limit: 100
Wet sieving <0.100mm	010-012	83.2	% m/m	Ν		
Reactivity (HCL)	010-010	98.1	%	Ν		
Neutralising Value as CaO - sample as received basis	010-011	56.1	% m/m (SAR)	Ν		

Analysis Status	Code
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Analysis is not UKAS accredited.	N

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Infor	mation * Batts Combe Quarry (Ground Limeston	e - Fines Plant L101)
Batch Code	Hanson Aggregates	AGL 0025
		· · · · · · · · · · · · · · · · · · ·

<u>Method</u>	Method Reference	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	<0.1	%	Ν

Authorised By: Steve Johnson, Senior Analyst (Chemistry)

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