

**LABORATORY TEST CERTIFICATE
MATERIALS LABORATORY**

Certificate No: 19/1354-18

To : Rachel Moore

Client : Network Plus
James Corbett Road
Salford
Greater Manchester
M50 1DE

Date: 21/08/2020

Dear Sirs,

FIELD & LABORATORY TESTING

Introduction

We refer to a sample taken from site on the 5th June 2020.

Tested By : Lincs Laboratory

Sample Reference : A2734

Description : NFSMR 50/50 Mix

Date Sampled : 5th June 2020

Date Tested : 16th July - 6th August 2020

Source : James Corbett Street Depot

Weather : N/A

Test Results;

Please see attached

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
All remaining samples for this project will be disposed of 28 days after issue of this test certificate
When a statement of conformity is requested for a test result against limits set out in a standard or specification (e.g. BS EN ISO, SHW) that already considers measurement uncertainty, MATtest Laboratories decision rule is to follow conformity requirements of the applicable standard or specification.
Results reported only relate to the items tested/ received.

Remarks;



Approved for Issue: _____

Position: Operations Manager

Issuing Office:



Head Office & Central

Unit 5 Draycott Mills, Off Market Street, Draycott, Derby, DE72 3NB



North West

Unit 15 Park Court, Sherdley Business Park, St. Helens, Merseyside, WA9 5GZ

Tel: 03333 202521 Web: www.mattestlaboratories.co.uk



7806

Lincs Laboratory

St Georges Lane, Riseholme, Lincoln, LN2 2LQ
Tel: (01522) 530355 Email: lincslab@lincolnshire.gov.uk



0699

TO: Mattest Laboratories Ltd
Unit 5
Draycott Mills
Off Market Street
Draycott
Derby
DE72 3NB

REPORT NO: 77981
JOB NO: 42857
DATE: 17 August 2020

PROJECT TITLE: JAMES CORBETT ROAD DEPOT, ECCLES, SALFORD
WORK UNDERTAKEN: ANALYSIS OF AGGREGATES

A handwritten signature in black ink that reads 'R. Broughton'.

Authorising Signature:

(R Broughton – Senior Operations Technician -
Laboratory Testing)

Notes:

1. This report is factual and only relates to the items tested.
2. Advice on the interpretation of these results is available from Lincs Laboratory Consultancy Staff. Opinions and interpretations are outside the scope of our UKAS/ISO 17025 accreditation.
3. Any samples or their residues will normally be kept for four weeks after the publication of this report.
4. Tests marked 'UKAS accredited' in this report are listed in our UKAS accreditation schedule bearing No. 0699.
5. This report shall not be reproduced except in full, without written approval of Lincs Laboratory.
6. This report contains results for samples taken by a third party. The results apply to the sample as received.

Distribution:

√1 - Client
1 - Lab File

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DATE: 17 August 2020

PROJECT TITLE: JAMES CORBETT ROAD DEPOT, ECCLES, SALFORD
WORK UNDERTAKEN: ANALYSIS OF AGGREGATES

SAMPLE DETAILS:

Lab Sample No:	A398-20	Source: Not Supplied
Client Ref No:	19/1354-18	
Sample Location:	Not Supplied	Date Tested: 27.7.20 & 6.8.20
Sample Description:	SMR 50/50 Mix – Aggregate, Bituminous & Soil	
Supplier:	Not Supplied	
Date Received:	2.7.20	
Sampler:	Mattest	
Sampling Procedure:	Not Supplied	

TEST METHOD DETAILS:

Determination of Particle Size Distribution – Sieving Method (Washing/Sieving)
BS EN 933-1:2012 and Annex A (UKAS Accredited)
Determination of Water Content – Drying in ventilated oven BS EN 1097-5:2008 (UKAS Accredited)
Determination of Frost Heave BS 812:Part 124:2009 (UKAS Accredited)
Material Specification: Not Supplied

PARTICLE SIZE CHARACTERISTICS

Sieve Size	As Rec'd	Stable Specimen After Compaction
63mm	100	100
50mm	96	100
40mm	89	100
31.5mm	73	94
20mm	50	73
16mm	43	59
14mm	40	56
10mm	33	46
8mm	27	41
6.3mm	26	37
4mm	23	32
2.8mm	22	29
2mm	21	27
1mm	18	24
0.5mm	16	21
0.25mm	10	14
0.125mm	7	9
0.063mm	4.8	6.5

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REPORT NO: 77981
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COMPACTION CHARACTERISTICS:
BS EN 13286-4:2003 (UKAS Accredited)

Maximum Dry Density: 2.08 Mg/m³
Optimum Water Content 10.0%
Dry Density of Stable Specimen: 2.08 Mg/m³

WATER CONTENT CHARACTERISTICS:
BS EN 1097:5 2008 (UKAS Accredited)

Water Content of Stable Specimen: 8.5%

PREPARATION DETAILS:

Samples prepared at density of 2.08 Mg/m³.
Samples prepared at water content of 10.0%.

FROST HEAVE RESULTS FOR REFERENCE SPECIMENS:

HEAVE OF CYLINDERS (In 96 hours freezing) mm	A	B	C	MEAN
	10.0	11.0	8.0	9.7

Specification for mean heave = 9.6 - 17.6mm.
Maximum difference in heave between individual specimens = 6mm
The above reference samples comply with this specification.
Position of reference samples in cabinet 3, 5, 7

FROST HEAVE RESULTS FOR TEST SPECIMENS:

HEAVE OF CYLINDERS (After 96 hours freezing) mm	A	B	C	MEAN
	13.5	16.5	11.5	13.8

Specification for difference in heave = Mean below 18mm then the range must not be >6.0mm.
If the mean is above 18mm there is no specification for the range.

The test specimens complied with the above specification for difference in heave. Positions in the cabinet: 1, 2, 4

COMPLIANCE DETAILS:

Specification = Materials are classified as non-frost susceptible if the mean heave is 15.0mm or less.
Materials with a mean heave of 15.1mm or more are classified as frost susceptible.

The grading of the material as received did/did not comply with the specification.

REMARKS: The sample was not accompanied by a certificate of sampling.

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REPORT: 77981
JOB NO: 42857
DATE: 17 August 2020

PROJECT TITLE: JAMES CORBETT ROAD DEPOT, ECCLES SALFORD
WORK UNDERTAKEN: REFERENCE DENSITY AND WATER CONTENT – VIBRATING HAMMER

Lab Sample No:	Sample (Type)	Location	Water Content (%)	Dry Density (Mg/m ³)	Retained 40mm (%)	Retained 20mm (%)
A398-20	B	Not Supplied	6.5	1.92	12	30
			7.8	2.02		
			8.9	2.06		
			10.6	2.04		
			11.1	1.96		

Optimum Water Content: 10.0%
Maximum Dry Density: 2.08 Mg/m³

Supplier: Not Supplied
Source: Not Supplied
Sample Description: SMR 50/50 Mix – Aggregate, Bituminous and Soil

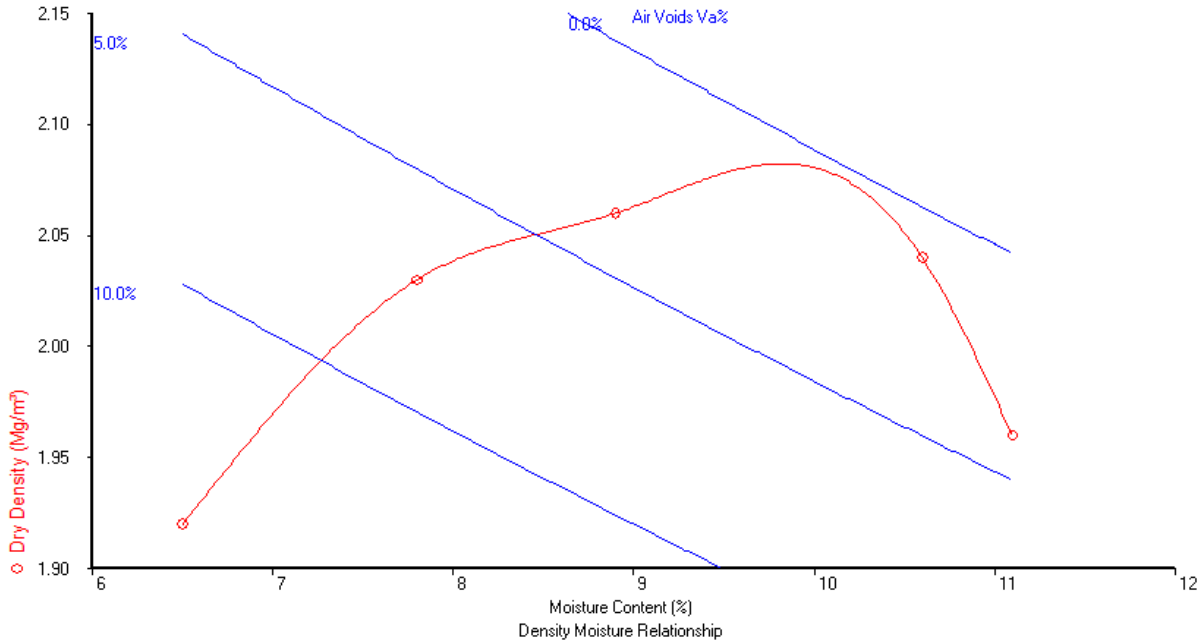
Notes:

- i) Sampler : Mattest
- ii) Sampling Procedure : Not Supplied
- iii) Date Received : 2.7.20
- iv) Date Tested : 27.7.20
- v) Test Procedure : BS EN 13286-4:2003 (UKAS Accredited)



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Density Moisture Relationship



Job Ref: 42857
Job Name: James Corbett Road Depot, Eccles, Salford
Sample Ref: A398-20
Sample Location: Not Supplied
Date Tested: 27/07/2020

Optimum Water Content: 10
Max Dry Density (Mg/m³): 2.08
Voids @ OWC (%): 0.4

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REPORT: 77981
JOB NO: 42857
DATE: 17 August 2020

PROJECT TITLE: JAMES CORBETT ROAD DEPOT, ECCLES, SALFORD
WORK UNDERTAKEN: ANALYSIS OF AGGREGATES SAMPLES

Lab Sample No:	Client Ref:	Date Received	Date Sampled	Sampled By:	Sample Location	Sample Description	Aggregate Type	Source/Supplier
A398-20	19/1354-18	2.7.20	Not Supplied	Mattest	Not Supplied	SMR 50/50 Mix	Aggregate, Bituminous & Soil	Not Supplied

Sampling Procedure: Not Supplied

The sample was not accompanied by a certificate of sampling.

The above sample was sub-contracted to a UKAS accredited laboratory which is accredited for the test. A copy of their report can be found on pages 7 to 9 of this report.



Nicholls Colton Group
 7 - 11 Harding Street
 Leicester
 LE1 4DH

Lincs Lab
 St Georges Lane
 Riseholme
 LN2 2LQ

Analytical Test Report: L20/1539/LIL/001

Your Project Reference:	19/1354-18 James Corbett Road Depot, Eccles, Salford	Samples Received on:	16/07/2020
Your Order Number:	80295715	Testing Instruction Received:	15/07/2020
Report Issue Number:	1	Sample Tested:	16/07 to 17/07/2020
Samples Analysed:	1 blacktop sample	Report issued:	20/07/2020

Signed

Peter Swanston
 Environmental Laboratories Manager
 Nicholls Colton Group

Notes:

General

Please refer to Methodologies tab for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report unless otherwise requested.

Samples were supplied by customer, results apply to the samples as received.

Tar Testing

Testing was undertaken in accordance with principles outlined in the County Surveyors Society Guidance note 'Road Materials Containing Tar'.

Tar phenols have been corrected for the extraction factor in the leaching step to give a value relative to the solid material

Entire sample was crushed to pass 10mm BS test sieve prior to analysis.

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of Issue 24.01.2017

Owned by Emily Blissett - Customer Services Supervisor

Authorised by James Gane - Commercial Manager

J:\Public\Projects\2020\L20\LIL - Lincs Lab\L20-1539-LIL\L20-1539-LIL-001.XLSX\Tar Suite

L20/1539/LIL/001

Project Reference - 19/1354-18 James Corbett Road Depot, Eccles, Salford

Analytical Test Results - Tar Suite

NC Reference	99494
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Client Sample ID	A398-20
Client Sample Reference	19/1354-18
Date of Sampling	03/06/2020
Sample Matrix	Blacktop

Determinant	Units	Accreditation	
Acenaphthene	(mg/kg)	u	< 2.0
Acenaphthylene	(mg/kg)	u	< 2.0
Anthracene	(mg/kg)	u	4.0
Benzo (a) anthracene	(mg/kg)	u	11
Benzo (a) pyrene	(mg/kg)	u	10
Benzo (b) fluoranthene	(mg/kg)	u	12
Benzo (g, h, i) perylene	(mg/kg)	u	6.7
Benzo (k) fluoranthene	(mg/kg)	u	4.5
Chrysene	(mg/kg)	u	11
Dibenzo (a,h) anthanthracene	(mg/kg)	u	< 2.0
Fluoranthene	(mg/kg)	u	21
Fluorene	(mg/kg)	u	< 2.0
Indeno (1, 2, 3,-cd) pyrene	(mg/kg)	u	4.5
Napthalene	(mg/kg)	u	2.0
Phenanthrene	(mg/kg)	u	9.7
Pyrene	(mg/kg)	u	19
Coronene	(mg/kg)	u	2.2
PAH Content (PAH17)	(mg/kg)	u	130



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7 - 11 Harding Street
Leicester
LE1 4DH

L20/1539/LIL/001

Project Reference - 19/1354-18 James Corbett Road Depot, Eccles, Salford

Tar Analysis Methodologies

Matrix	Determinant	Sample condition for analysis	Test Method used
Blacktop	PAH	Air Dried	In house method statement - MS - CL - PAH