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# SPORT ENGLAND TYPE 1 MUGA TEST REPORT

Facility Reference	Clovenfords Primary School
Facility Address:	Muscat Brae Clovenfords Primary School Galashiels TD1 3LD
Report Number:	17092 / 2617s
Report Status:	FINAL
Issue Date:	17/05/2016
Client:	Scottish Borders Council Council Headquarters Newtown St Boswells TD6 0SA

## Sport England Type 1 MUGA Test Report


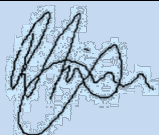


## Laboratory Details



Name	Sports Labs Ltd
Address	12 Nasmyth Court, Livingston, Scotland
Phone	0845 602 6354
Email	<a href="mailto:info@sportslabs.co.uk">info@sportslabs.co.uk</a>

Laboratory Director	Richard Nixon
Field Testing Manager	Keith Macpherson
Engineer on site	Neale Lees
Additional Engineers (if any)	N/A

Prepared by		
Field Testing Manager	Signed	
	Date	17/05/2016
Checked By		
Laboratory Director	Signed	
	Date	17/05/2016

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Test Programme

Player/Surface Interaction	Slip Resistance	ITF CS/02/01: 1997
Construction Requirements	Surface Regularity	BS EN 13036-7: 2003
	Permeability	BS EN 12616: 2013
	Slope*	Using Surveyors Level
	Dimensions*	Laser Distancemeter

\*Not all tests carried out are within our scope of ISO 17025 Accreditation.

Test Summary

Summary of testing	Pass/Fail	FAIL
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Test Conditions

Substrate Type:	Engineered Base	
Surface Type:	MUGA	
Surface Name	Tarmac	
Weather Conditions:	Sunny	
Surface Condition	Dry	
	AM	PM
Ambient Temperature (°C)	N/A	20
	AM	PM
Surface Temperature (°C)	N/A	20
	AM	PM
Humidity (% RH)	N/A	58
	AM	PM
Wind Speed (m/s)	N/A	0.3

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Test Results

			Positions						
Player/Surface Interaction	Dry Slip Resistance (PTV)	≥60 PTV	1	2	3	White	Yellow	Red	None
			94	94	92	96	94		
	Wet Slip Resistance (PTV)	≥60 PTV	1	2	3	White	Yellow	Red	None
			74	69	66	58	56		
			Deviatons ≥ ± 8mm						
Construction Requirements	Surface Regularity- Total Playing Area (See diagram Page 7)	8 Permitted	0						
	Surface Regularity- Principal Playing Area (See diagram Page 7)	4 Permitted	3						
			Positions						
			1	2				3	
	Permeability (mm/hr)	>100mm/hr	87	89				88	
	Dimensions (m)		Parameter					Distance (m)	
Length					36.0				
Width					18.0				
Values in RED denote failure of client's specified limits									



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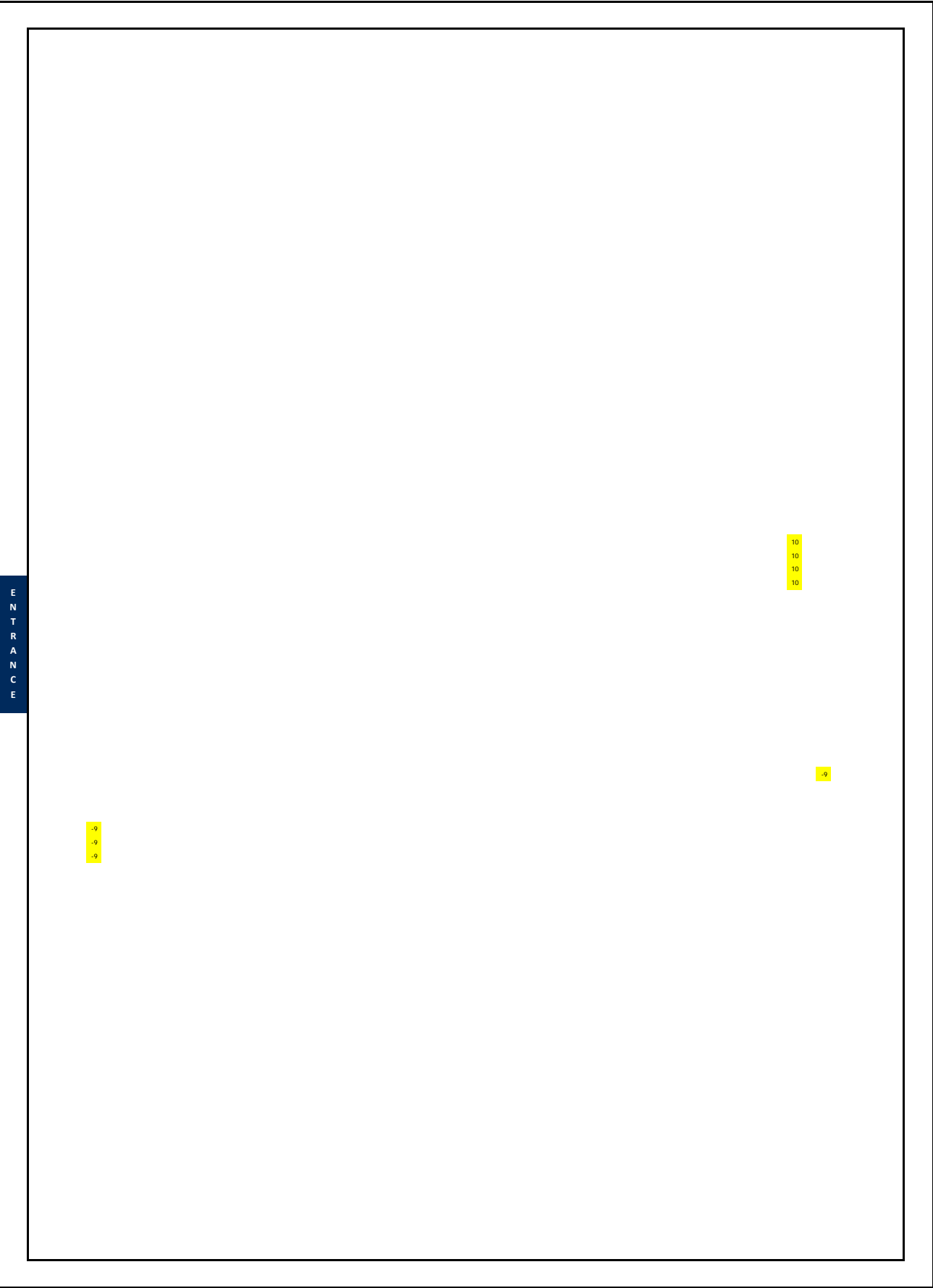


Plan showing surface irregularites > ± 8mm

Irregularites ≥15mm

Irregularites ≥12 - ≤14mm

Irregularites ≥9 - ≤11mm



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## Visual Inspection

		Property	Condition
Visual Inspection	Aesthetics	Damage	Small cracks in areas.
		Colour	None present
		Line Markings	Line markings are broken and cracked. Re application required
		Fencing	In good condition
		Goals, Equipment	Equipment in good condition. Goals in good condition and no damage visible. Backboards beginning to show signs of wear
		Housekeeping (Litter etc)	Litter and organic detritus scattered around edges of surface

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## Line Markings

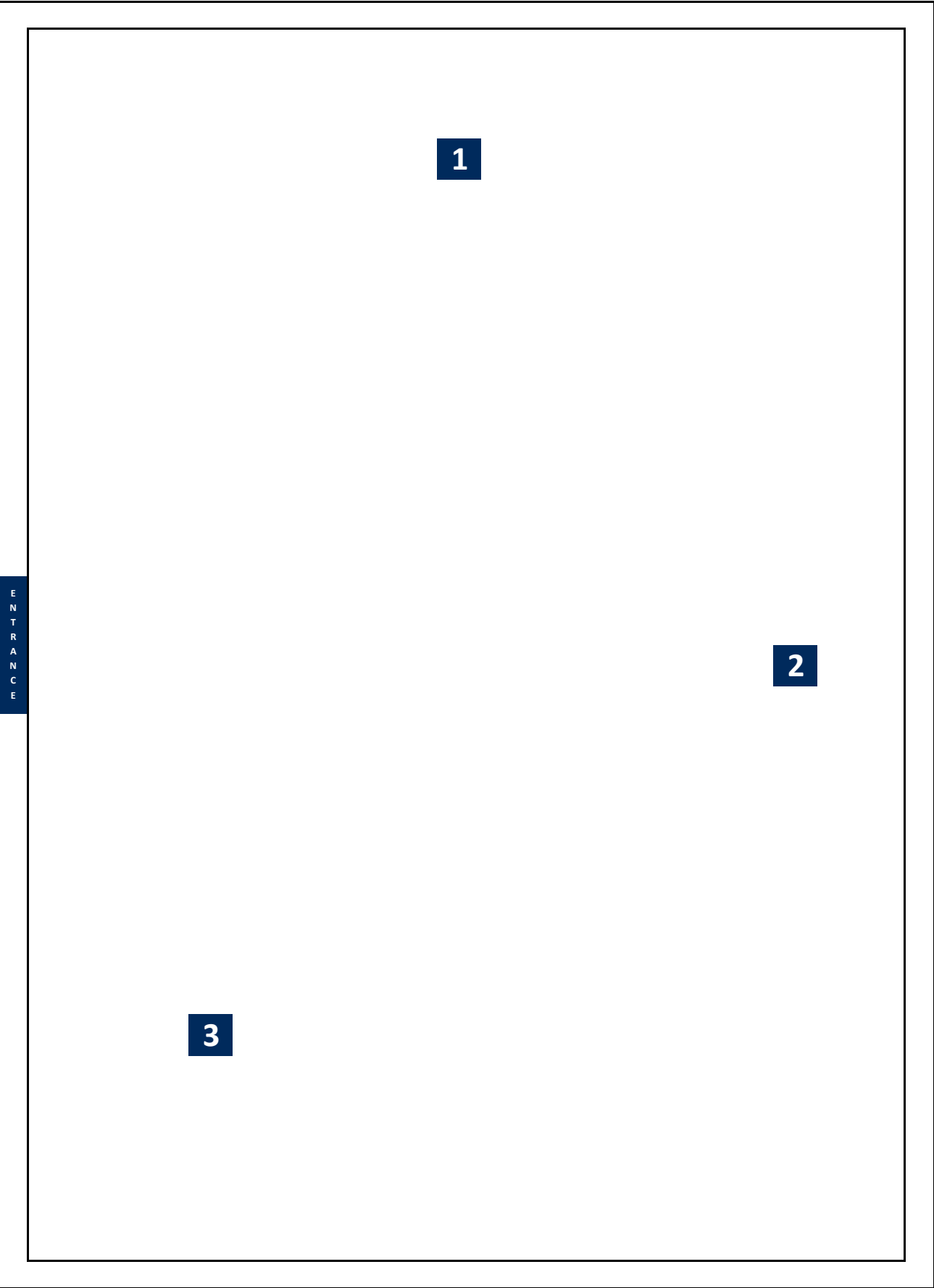
	Sport	Line Colour	Number Present
Line Markings	Basketball	Yellow	1
	Netball	Yellow	Not Present
	Badminton	Not Present	Not Present
	Tennis	Not Present	Not Present
	5-a -Side Football	White	1
	Hockey	Not Present	Not Present
	Other	Not Present	Not Present



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Plan showing Test Locations



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Site Photographs - Overview



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Site Photographs - Example Defects (If Any)



Broken Lines



Cracking of surface



Permeability



uneven surface



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## Discussion And Conclusions

The results obtained from testing showed that the surface failed to comply with the contract specification. Details of the failures have been given below along with comments.

The surface specifically failed to meet the requirements of:

**Permeability:** The 3 areas examined were out with the requirements of permeability. The surface may have been designed to be no permeable

**Wet Slip Resistance:** In total 2 areas were below the required limit for slip resistance.

END OF REPORT