

HIGH-LEVEL TACTILE INSPECTIONS

SAMPLING PHASE 1
REPORT
Dirleton Castle
PIC139



HISTORIC
ENVIRONMENT
SCOTLAND

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Document Control

Title:	High-Level Tactile Sample Inspection Project Phase 1 Report PIC139 Dirleton Castle
Authors:	[REDACTED]
Document created:	August 2021
Reviewed by:	[REDACTED]
Date Reviewed:	27/08/2021
Approved by:	[REDACTED]
Date of Approval:	30/08/2021
Version Number:	V0100

Version Control

Version	Date	Status	Prepared by	Amendments
V0001	23/08/2021	Draft	[REDACTED]	First draft
V0100	27/08/2021	Approved	[REDACTED]	Approved

HLTI Sampling: Report - Introduction



PIC ID # ↓	PIC139	Site name	Dirleton Castle		
Inspection start	16/08/2021	Inspection end	17/08/2021	Submission	30/08/2021
Lead HBFA	[REDACTED]				
Sample Inspectors	[REDACTED]				

Introduction:

As a result of findings on the first four full site High Level Tactile Inspections, SMT endorsed an accelerated programme that will see high-level tactile sample inspection carried out initially to 16 sites identified as having a high risk potential. The Sample inspection for Dirleton Castle was carried out in accordance with HES Management of Risk Procedures as set out in High-level Fabric Policy and High level Tactile Inspection Procedures.

The Sample Inspection Report only reports on high level fabric risks within pre-determined areas and does not provide any assessment of risk in other areas on site.

Tactile inspections of two sample areas, the internal elevation of the Halyburton Range and Gatehouse (Sample Area A) and the exterior northern end of the Halyburton Range (Sample Area B), were undertaken from an alloy tower and MEWP respectively.

HLF Inspection Risk Matrix:

HES-T1C-HLF-RAS-X-X-V0200-RiskMatrix

Consequence \ Probability		1	2	3	4	5
		No injury	Minor injury	Moderate injury	Major injury	Fatal or life-altering injury
5	Fabric fall almost certain	5	10	15	20	25
4	Fabric fall highly likely	4	8	12	16	20
3	Fabric fall likely	3	6	9	12	15
2	Fabric fall unlikely	2	4	6	8	10
1	Fabric fall highly unlikely	1	2	3	4	5

RISK RATING	RISK SCORE RANGE
High	15-25
Medium	10- 14
Low	1-9

HLTI Sample Areas:

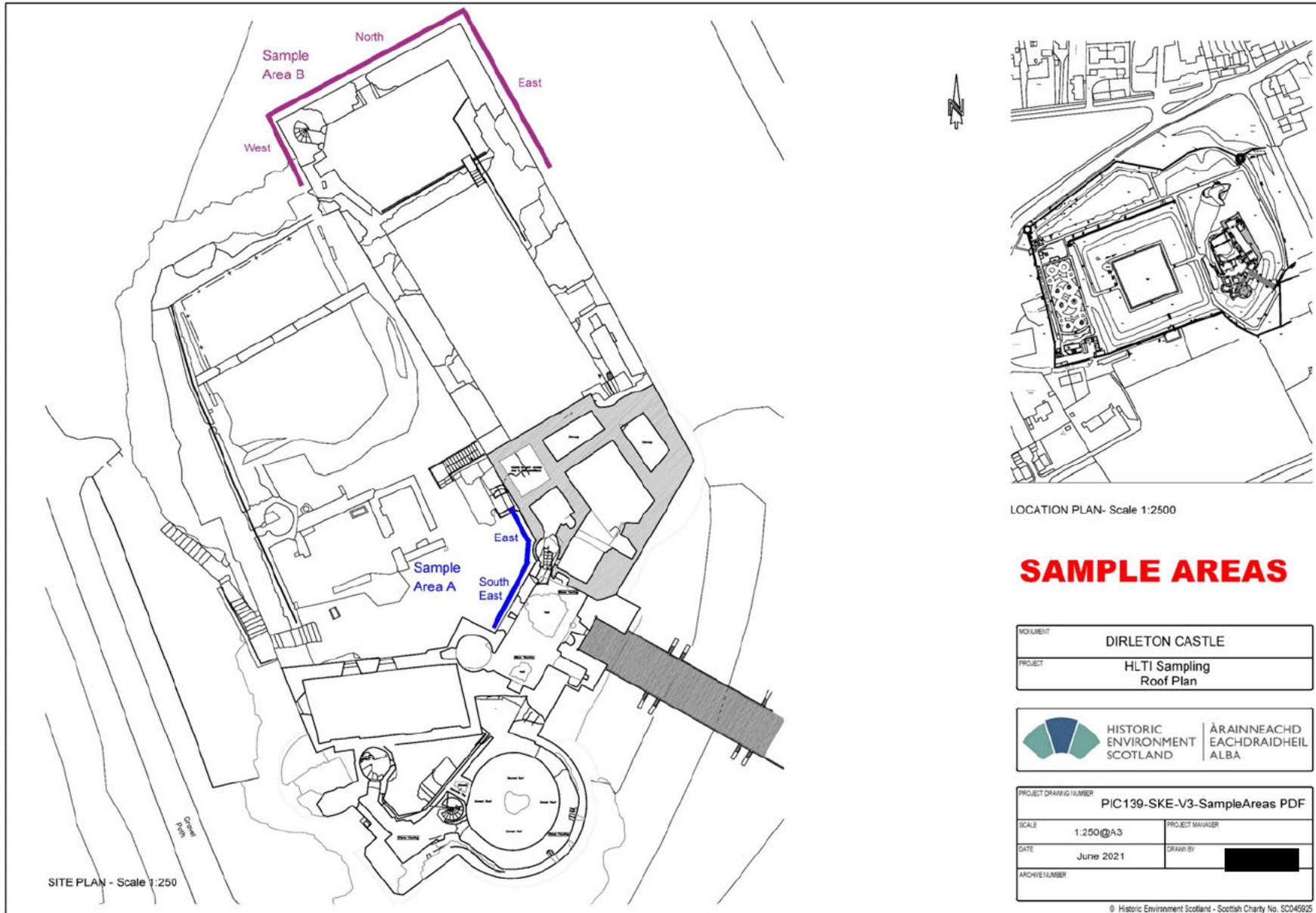
HLTI Sampling: Report - Introduction



<i>Area:</i>	<i>Colour:</i>	<i>Sample Area Name:</i>
A		Internal elevation of Halyburton Range & Gatehouse
B		North end of Halyburton Range



Click on link to open drawing in PDF viewer: [PIC139-SKE-V3-SampleAreas.pdf](#)



HLTI Sampling: Report - Summary dashboard



PIC ID#	PIC139	Submission	30/08/2021
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Select Sample area of which data should be displayed ↓	All areas
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Number of observations	65
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Identified Risk



Residual Risk



Inspection Action:

Class V Report = Fabric detached during tactile inspection	Access Restriction = Risk of fabric falling and causing harm			Monitor Observation / Plan Repairs = No immediate action
	High = Full site closure	Medium = Partial site closure	Low = Minor access restriction	
16	0	1	4	44

Inspection types:	Tactile	64	Visual	1
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Key comments:

Dirleton Castle is predominantly constructed from a mixture of soft sandstone and hard but brittle igneous rock. The former is prone to erosion and surface scaling/delamination of bedding layers while the surfaces of the igneous rock are often fractured and friable with resultant hard, dense and sharp edged fragments at risk of falling. Localised decay of mortar and vegetation penetration into joints has loosened some pinning stones and sections of mortar. These are, at times, of sufficient size or height to potentially cause injury to people below.

Of the inspected areas, unsupported stones above window and door openings in Sample Area A are of biggest concern. The District Architect and Structural Engineer were consulted during the inspection in regards to these and an associated structural crack. Unless deemed unnecessary by the structural engineer or mitigation measures are put in place, restrictions preventing access into the castle should be maintained.



Click on link below image to open Interactive PDF in PDF viewer. In PDF viewer, the drawing is an interactive PDF, click on the labels to open the relevant OBS form for further information.

Sample Area A

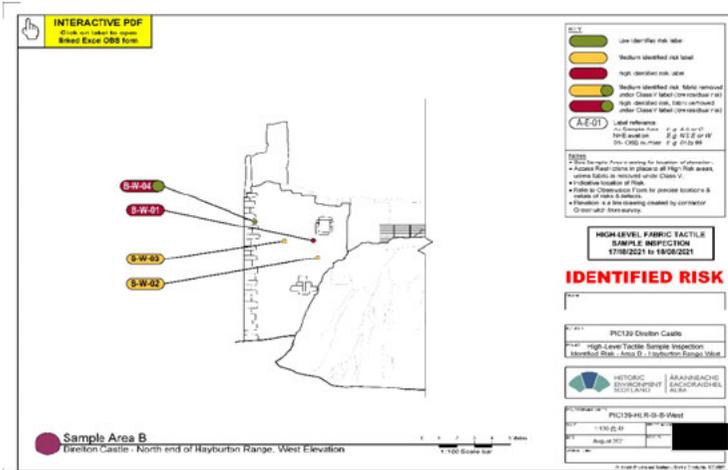
[PIC139-HLR-SI-A-East](#)

[PIC139-HLR-SI-A-SouthEast.pdf](#)

Sample Area B

[PIC139-HLR-SI-B-East.pdf](#)

[PIC139-HLR-SI-B-North.pdf](#)



[PIC139-HLR-SI-B-West.pdf](#)