

HIGH-LEVEL TACTILE INSPECTIONS

SAMPLING PHASE 1
REPORT
Crichton Castle
PIC135



HISTORIC
ENVIRONMENT
SCOTLAND

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CONTROL SHEET

Document Control

Title:	High-Level Tactile Sample Inspection Project Phase 1 Report PIC135 Crichton Castle
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V0001	07/09/2021	Draft	[REDACTED]	First draft
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HLTI Sampling: Report - Introduction



PIC ID # ↓	PIC135	Site name	Crichton Castle		
Inspection start	30/08/2021	Inspection end	01/09/2021	Submission	17/09/2021
Lead HBFA	[REDACTED]				
Sample Inspectors	[REDACTED] - Senior Architectural [REDACTED] [REDACTED] - Historic Building Fabric Assessor				

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.

Tactile Inspection of two sample areas - the interior North wall and the Main Entrance - 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.

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:

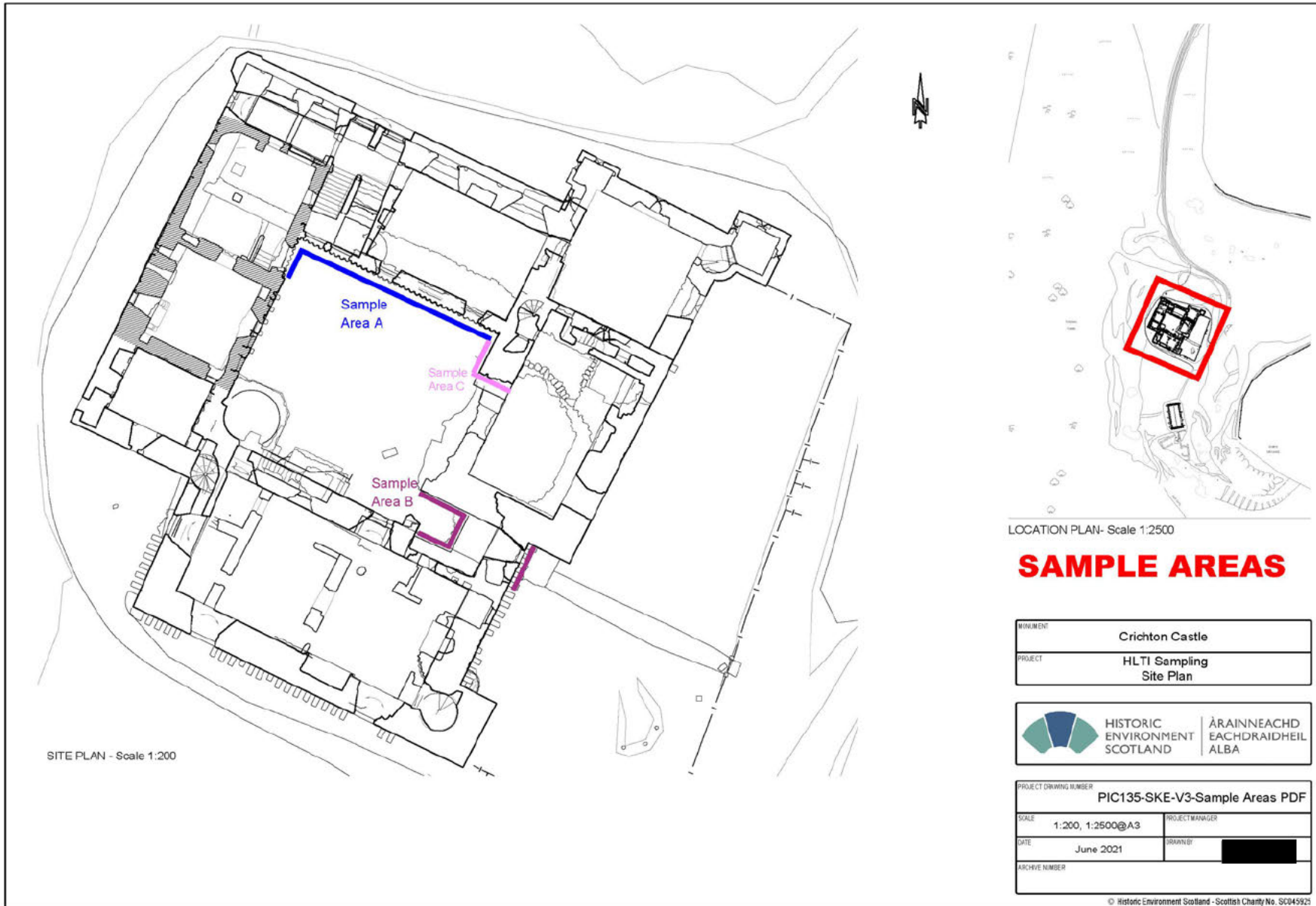
Area:	Colour:	Sample Area Name:
A	[Blue]	Internal - West & North Range - Courtyard Elevations
B	[Purple]	External & Internal - Main entrance



C		North elevation rough racking
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Click on link to open drawing in PDF viewer: [PIC135-SKE-V3-SampleAreas](#)





HLTI Sampling: Report - Summary dashboard



PIC ID#	PIC135	Submission	17/09/2021
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Select Sample area of which data should be displayed ↓	All areas
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Number of observations	69
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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	
11	0	9	11	37

Inspection types:	Tactile	69	Visual	0
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Key comments:



The remains of Crichton castle are predominantly constructed from sandstone prone to decay from wind and water exposure. The seasonal site has been closed for 2 years. On entry into the courtyard, numerous sizeable masonry fragments were noted on the ground, indicative of the active weathering process resulting in masonry losses. particularly in the South range. Three sample areas were inspected:

Sample Area A – the diamond faceted interior North wall of the courtyard and its West wall return

Numerous diamond facets were found to be boss, delaminating or cracked indicating a likelihood of fabric fall in the future.

Sample Area B - the only existing entrance into the castle on the East elevation (internal and external elevations)

- External: Stone surface scaling and localised mortar decay with a subsequent risk of hard cement pointing falling. A number of loose stone fragments were found on the wall head.

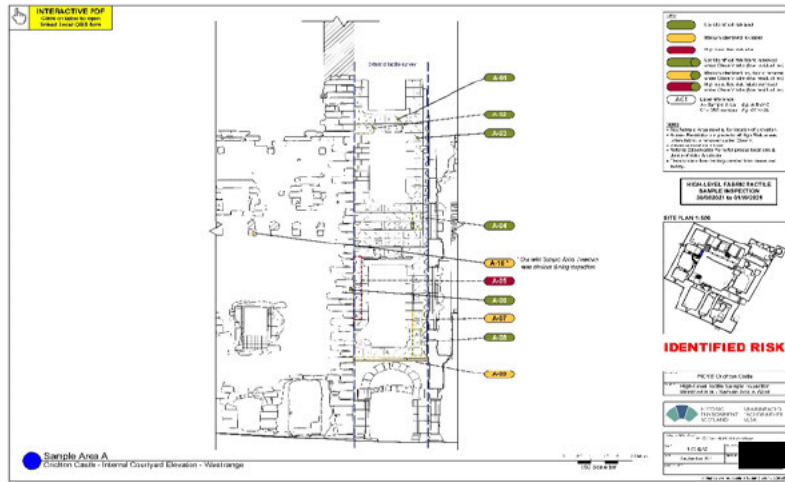
- Internal: Loose stone fragments, loose pinnings and loose render at high risk of fall over large surface areas. Advice was sought from Structural Engineer in relation to the safety of soffit stones with little or no obvious support above the entrance area. The restricted internal entrance into the castle presents a risk of severe injury/to life to persons below.

Sample Area C - the rough racking projecting from the Bothwell (North) and forming part of the East courtyard wall. In spite of its open masonry, no risk of fabric fall was identified.

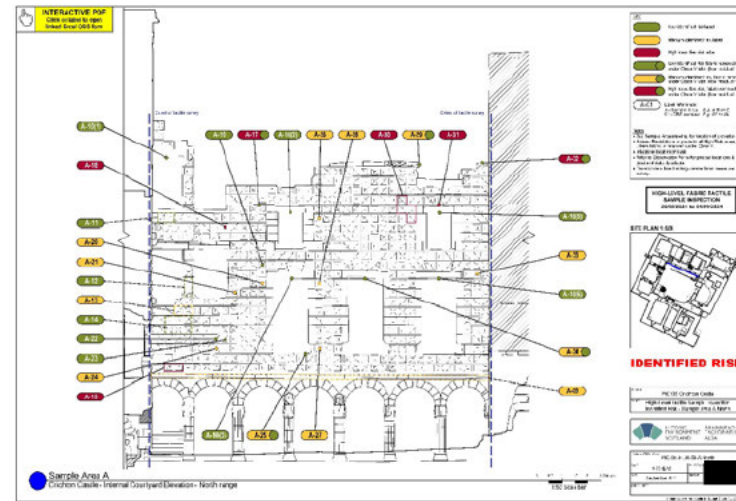


Click on link below image to open Interactive PDF in PDF viewer. In PDF viewer, the drawing is an interactive PDF, click on the labels to open the relevant OBS form for further information.

Sample Area A

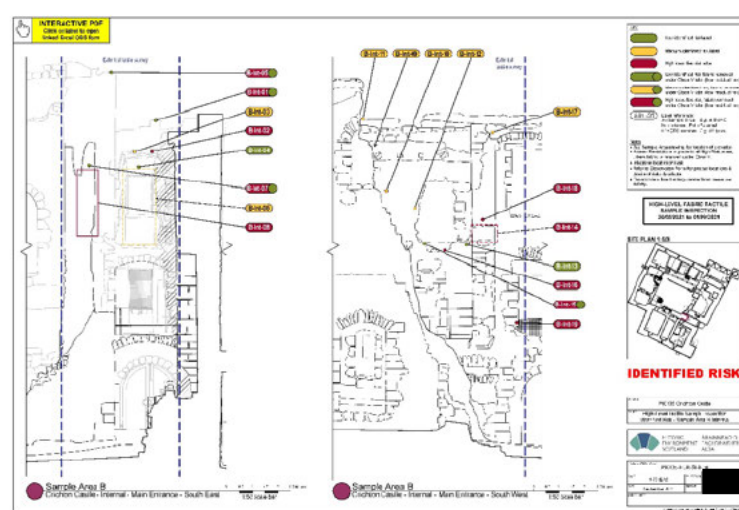
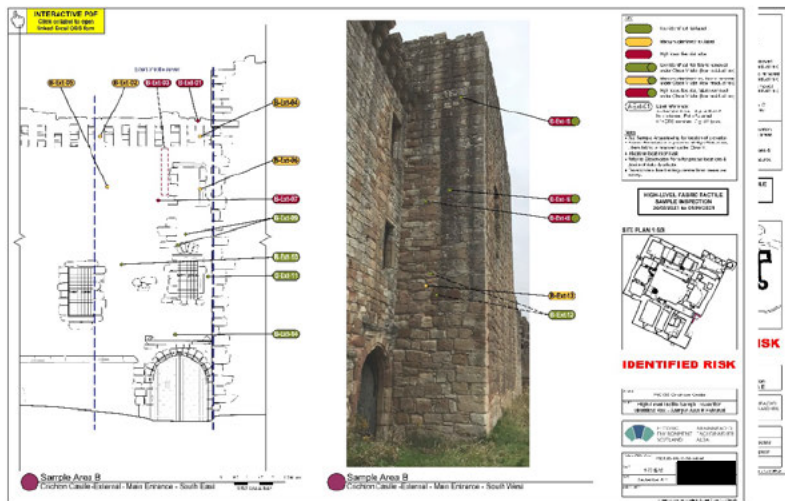


[PIC135-HLR-SI-A-West](#)



[PIC135-HLR-SI-A-North](#)

Sample Area B





[PIC135-HLR-SI-B-Ext](#)

[PIC135-HLR-SI-B-INT](#)

Sample
Area C

No Observations recorded during tactile inspection