High Level Masonry Project Tactile safety inspection of high-level fabric

> REPORT Doune Castle & Roman Camp PIC061



December 2022



HISTORIC ENVIRONMENT SCOTLAND

CONTROL SHEET

Document Control

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High-Level Tactile Inspection: Report - Introduction PIC ID # ↓ PIC061 Site name Doune Castle & Roman Camp Inspection start 21/11/2022 Inspection end 13/02/2023 Submission 07/03/2023 Lead inspector Other inspectors

Introduction:

The High-Level Fabric Inspection was lead by **Construction** (*Lead Inspector*) and carried out with a team of Inspectors (*as named above*) from 23.11.2022 - 13.02.2023.

The HLM Inspection Team assessed 31 zones covering all of the monument except one zone (Z32), using a range of high level access equipment. Zoned drawings were updated due to significant areas (Z18-Z32 being missed off original plan). hence the large gap between starting and completing the inspection. *For further information please refer to tab* **5.** Access Scope.

N.B. For limitations of inspection and areas not inspected, please refer to tab 5. Access Scope.

HLF Inspection Risk Matrix:

HES-T1C-HLF-RAS-X-X-V0300-RiskMatrix

C	onsequence	1	2	3	4	5		
Prob	ability	No injury	Minor injury	Moderate injury	Major injury	Fatal or life-altering injury	RISK RATING	RISK SCORE RANGE
5	Fabric fall almost certain	5	10	15	20	25	High	15 - 25
4	Fabric fall highly likely	4	8	12	16	20	Medium	10 - 14
3	Fabric fall likely	3	6	9	12	15	Low	1-9
2	Fabric fall unlikely	2	4	6	8	10		
1	Fabric fall highly unlikely	1	2	3	4	5		

Re-inspection frequency: (in years)

			Annual Visitor Numbers						
		up to 5 k	5-20 k	20 - 100 k	100k - 2m	over 2 m			
Risk	Low	5 years	5 years	5 years	4 years	4 years			
ldentified Risk Rating	Medium	3 years	3 years	2.5 years	2 years	2 years			
Idei	High	1 year	1 year	1 year	1 year	0.5 year			

Link to 3D model:

https://potree.hes.scot/data/061-DoCa-2018-42CCE3DC861835B8.html

HL Zones:

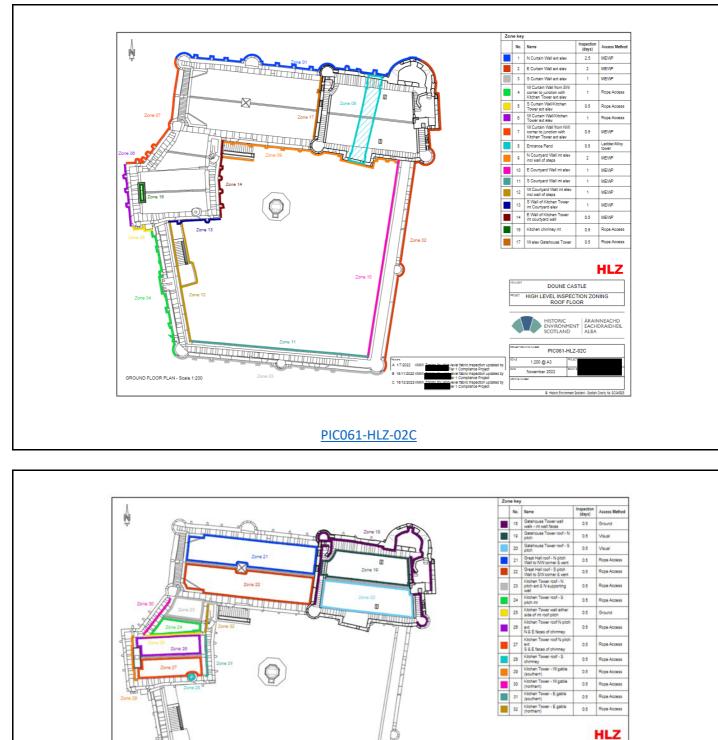
Zone:	Colour:	Zone Name:
1		North curtain wall. Exterior elevation
2		East curtain wall. Exterior elevation
3		South curtain wall. Exterior elevation
4		West curtain wall from South West corner to junction with Kitchen tower. Exterior elevation
5		South curtain wall/kitchen tower. Exterior elevation
6		West curtain wall/kitchen tower. Exterior elevation
7		West curtain wall from North West corner to junction with Kitchen tower. Exterior elevation
8		Entrance pend
9		North courtyard wall. Interior elevation including wall of steps
10		East courtyard wall. Interior elevation
11		South courtyard wall. Interior elevation
12		West courtyard wall. Interior elevation including wall of steps
13		South wall of kitchen tower. Internal courtyard elevation
14		East wall of kitchen tower. Internal courtyard wall
15		Castle Keepers Cottage
16		Kitchen chimney - internal
17		W Elevation Gatehouse Tower
18		Gatehouse Tower. Wall Walk. Internal wall faces
19		Gatehouse Tower. Roof. North pitch
20		Gatehouse Tower. Roof. South pitch
21		Great Hall. Roof. North pitch, wall to NW corner and vent
22		Great Hall. Roof. South pitch, wall to SW corner and vent
23		Kitchen Tower. North roof pitch (external) and North supporting wall
24		Kitchen Tower. South roof pitch (internal)

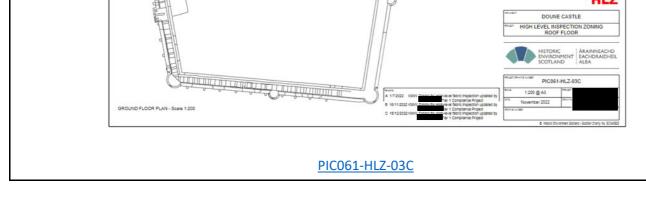
High-Level Tactile Inspection: Report - Introduction

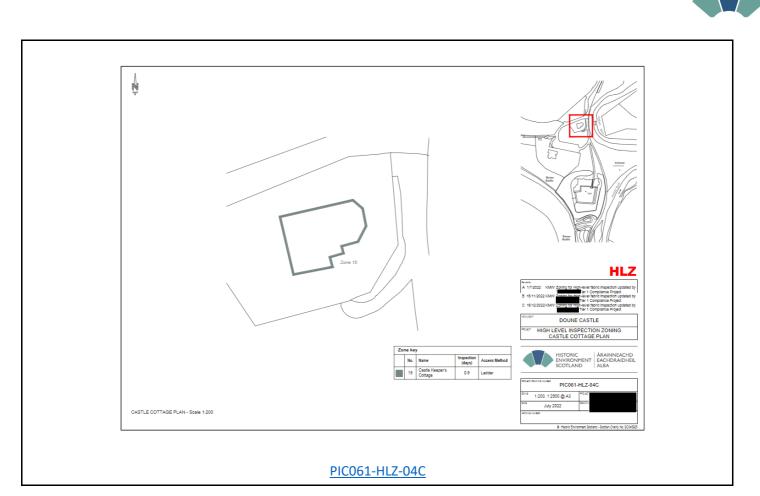
25	Kitchen Tower. Wall either side of internal roof pitches
26	Kitchen Tower. North roof pitch (internal) and N and E faces of chimney
27	Kitchen Tower. South roof pitch (external) and S and E faces of chimney
28	Kitchen Tower. South roof chimney.
29	Kitchen Tower. West gable (southern)
30	Kitchen Tower. West gable (northern)
31	Kitchen Tower. East gable (southern)
32	Kitchen Tower. East gable (northern)



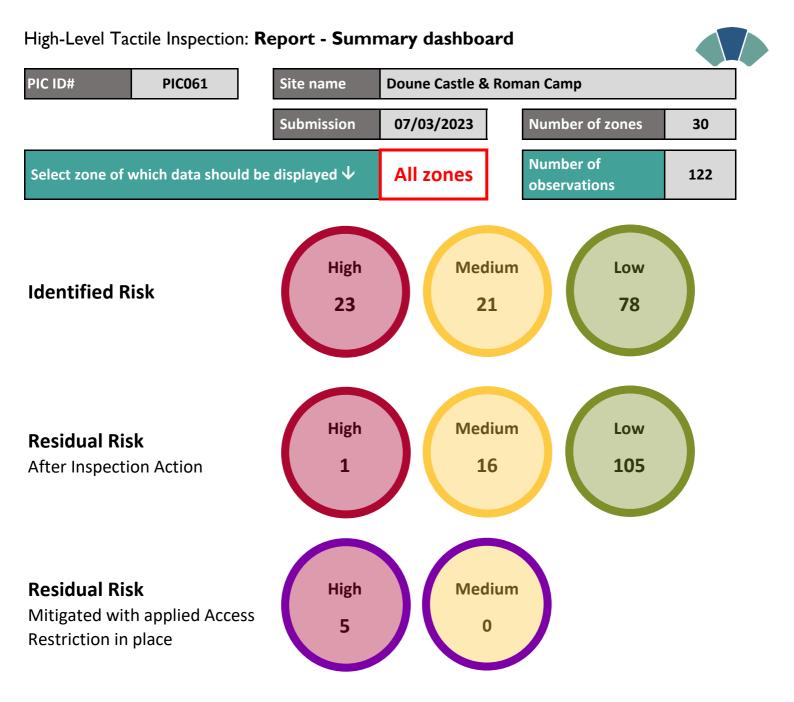
Click on link below image to open drawing in PDF viewer:











Inspection Action:							
Class V Report =	Access Restriction	Monitor Observation					
Fabric detached during tactile inspection	Full site, notifiable	Partial site, notifiable	Partial site, not notifiable	/ Plan Repairs = No immediate action			
22	0	1	7	92			
Inspection types:	Tactila	116	Visual	6			

Inspection types: Tactile 116 Visual 6	
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Key comments: **KEY FINDINGS** - Access to the exterior of the site is currently access restriction -Recommended minor access restrictions within Castle PREDOMINANT RISKS:-- Areas where high density of visitors - Access routes throughout Castle-Weekly checks carried out as per previous inspection rota N.B. For limitations of inspection and areas not inspected, please also refer to tab 5. Access Scope.



High-Level	Tactile Inspection:	Report -	Access Scope	
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PIC ID #	PIC061	Site name Dour		Castle &	tle & Roman Camp		
			1				
Access methods	Select all m	ethods used to co	induct inspe	ction V			
MEWP	Yes	Design Scaff	fold		Alloy Tower Scaffold		
Rope Access	Yes	Steeplejack			Ladder Yes		
Ground	Yes	Binoculars /	' Photo	Yes	UAV		
Other method		If yes, details:					
Ground protection	/ tracking red	quired:		Yes			
External Contractor appointed for access requirements:				Yes			

Inspection info:

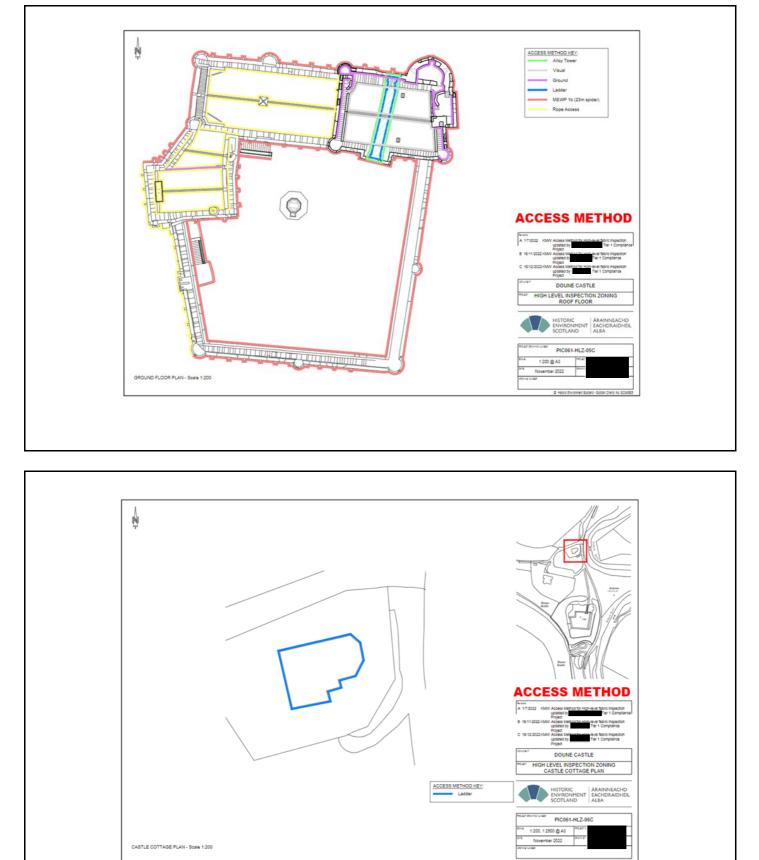
Limitations of	Z16- Kitchen Internal Chimney could only be partially inspected due to the upper area
inspection:	being too confined to access safely.

Areas not inspected:	Zone 32 - Kitchen Tower East Gable (Northern.) Currently a live project.

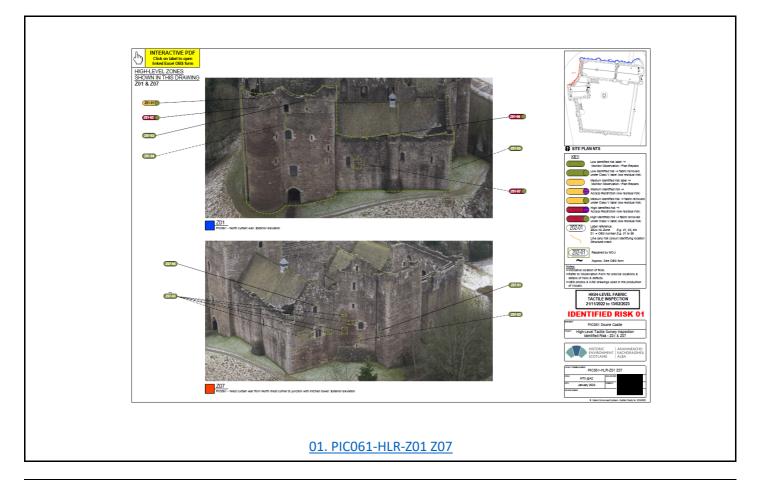
High-Level Tactile Inspection: Report - Access Scope

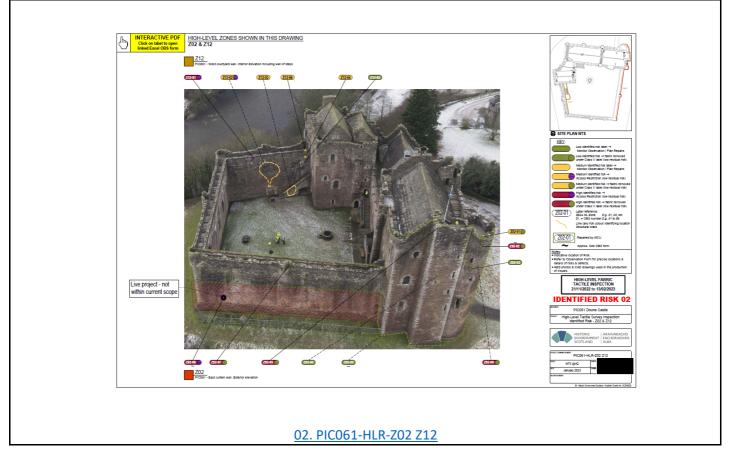


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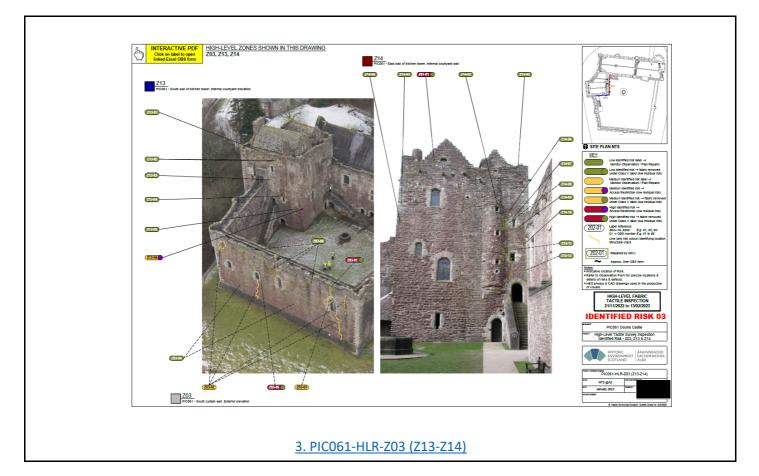


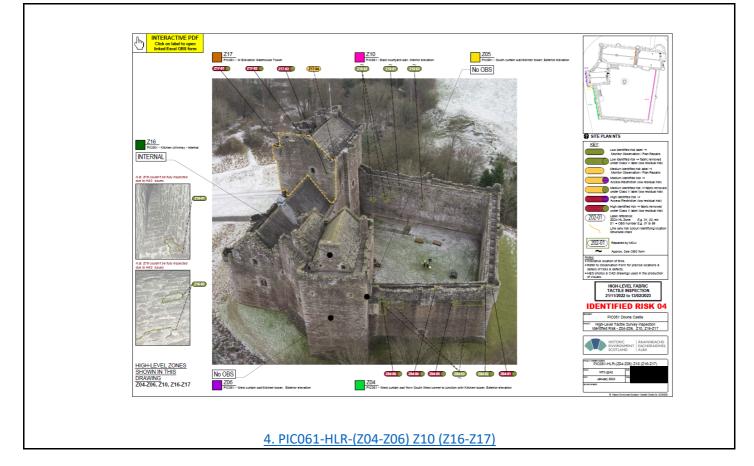




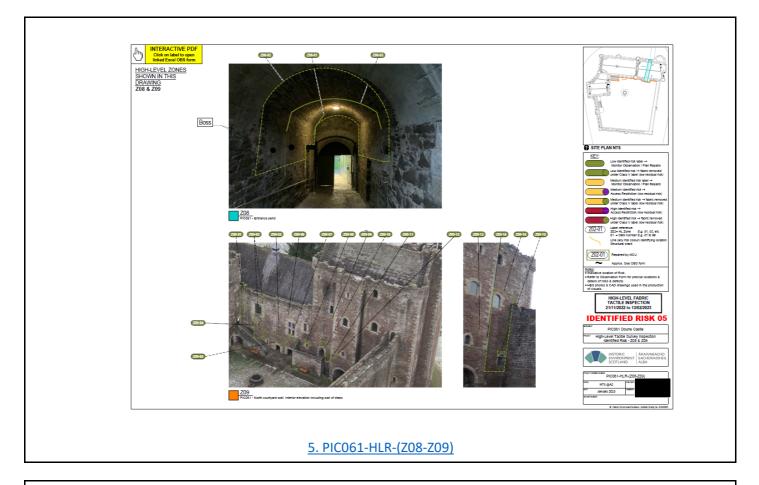
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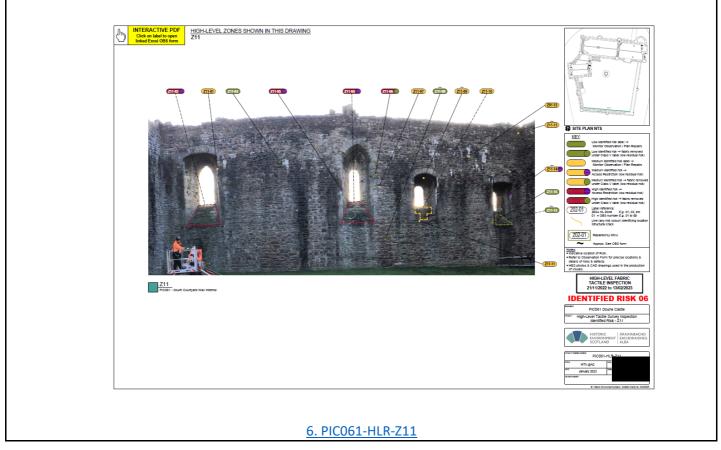




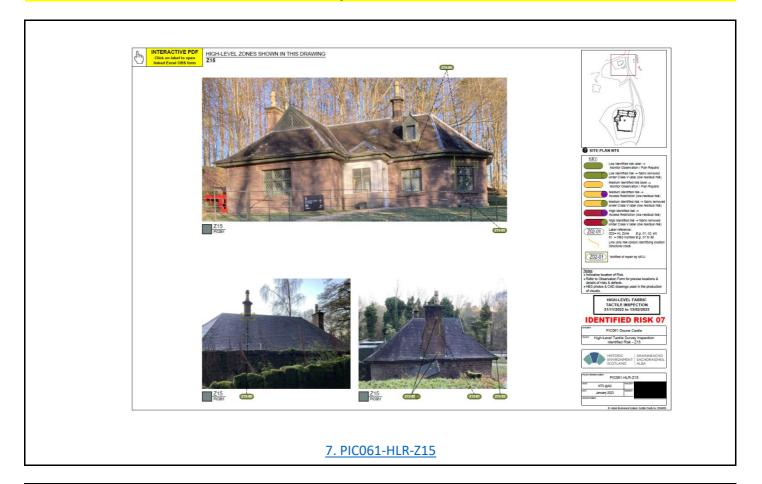


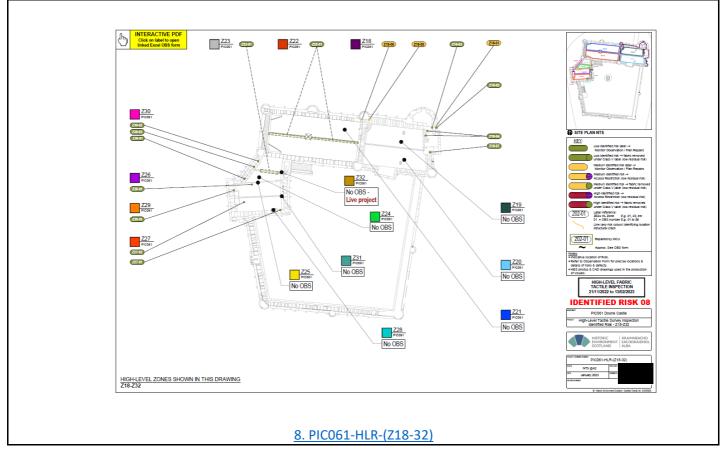














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