Tactile safety inspection of high-level fabric

REPORT St Andrews Castle PIC034



July 2022



CONTROL SHEET

Document Control

Title:	Tactile safety inspection of high-level fabric Report PIC6034 St Andrews Castle
Authors:	
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Reviewed by:	
Date Reviewed:	06/07/2022, 14/11/2022 (Update)
Approved by:	
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Version Number:	V0102

Version Control

Version	Date	Status	Prepared by	Amendments
V0001	01/06/2022	Draft		First draft
V0100	08/06/2022	Approved		Report reviewed and approved for first issue.
V0101	20/07/2022	Approved	•	Access restriction plan updated to include additional area following Technical Panel Review.
V0102	14/11/2022	Approved		Update to report. Zone 3 inspected - no observations found. Z17 added following zone revision - no observations found.

Template version: PICxxx-T1C-HLF-REP-YYYYMMDD-X-V0301-Report

High-Level Tactile Inspection: Report - Introduction



PIC ID # ↓	PIC034	S	Site name	St Andrews Cast	le		
Inspection start	08/06/2022	Ir	nspection end	10/06/2022		Submission	08/07/2022
Lead inspector							
Other inspectors							

Introduction:

The High-Level Fabric Inspection of PICO34 - St Andrews Castle	was lead by	, Lead Inspecto
and carried out with Inspectors	from 08/06/2022-10/06/2022	
The inspection team assessed 16 zones covering the whole mo	onument, using a range of high	level access
equipment including rope access, ladders and ground works.	has requested	design scaffold
to accomodate MEWP access over drawbridge for future work	cs. (Propping of Drawbridge). U	PDATE
14/11/2022 Z03 was inspected by a rope access team. No obse	ervations found. Z17 added follo	owing zone
revision - no observations found.		

HLF Inspection Risk Matrix:

HES-T1C-HLF-RAS-X-X-V0102-RiskMatrix

C	onsequence	1	2	3	4	5
Probability		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	œ	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

High-Level Tactile Inspection: Report - Introduction



Re-inspection frequency: (in years) Based on pre-pandemic numbers

		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	
Identified Risk Rating	Medium	3 years	3 years	2.5 years	2 years	2 years	
lep I	High	1 year	1 year	1 year	1 year	0.5 year	

HL Zones:

Zone:	Colour:	Alt. Ref	
1		А	Hamilton Façade
2		Е	West curtain wall. West external elev
3		F	North Range and Sea Tower
4		K	Kitchen Tower. South external elev & return wall
5		J	Kitchen Tower. West facing internal wall
6		I	North Range. South facing internal elev.
7		Н	Sea Tower. External face of lower level
8		G	Sea Tower. Internal elevs of upper walls
9		D	West curtain wall. East facing internal elev
10		В	South Range
11		С	South Range, Fore tower
12		0	Entrance pend into South range
13		Р	Entrance bridge
14		L	Entrance steps and surrounding walls to mine
15		N	Visitor Centre
16		М	Southern boundary wall/fence

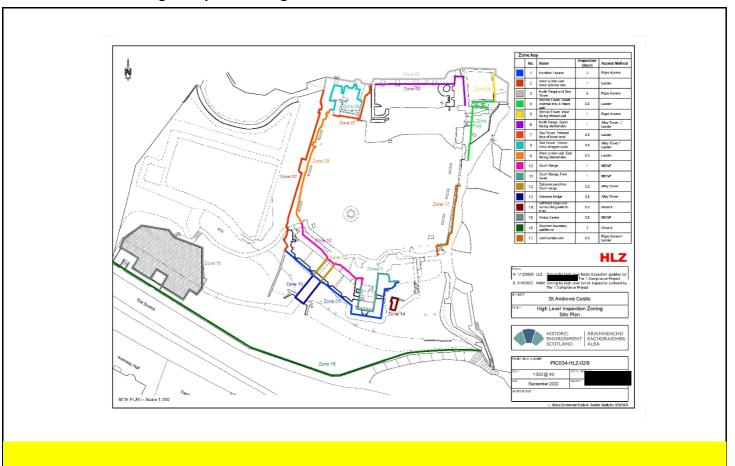
Link to 3D model:

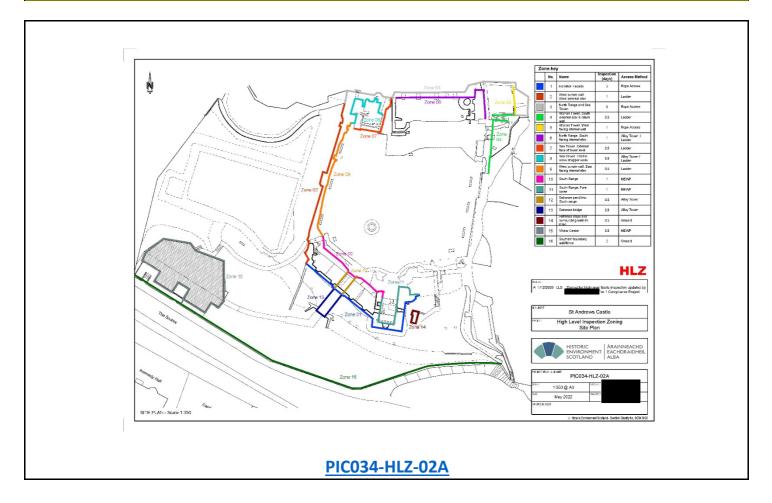
https://potree.hes.scot/data/034-StAn-2018-75C32CB4BC6F65A0.html

High-Level Tactile Inspection: Report - High-Level Zoning Drawings



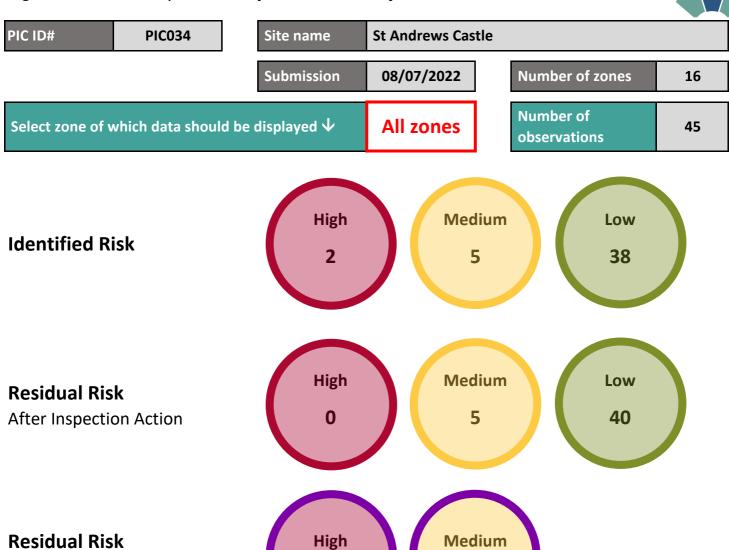
Click on link below image to open drawing in PDF viewer:





High-Level Tactile Inspection: Report - Summary dashboard





Inspection Action:				
Class V Report Fabric	Access Restriction	and causing harm	Monitor Observation /	
detached during tactile inspection	Full site, notifiable	Partial site, notifiable	Partial site, not notifiable	Plan Repairs No immediate action
1	0	1	0	43
Inspection types:	Tactile	45	Visual	0

1

Mitigated with applied Access

Restriction in place

High-Level Tactile Inspection: Report - Summary dashboard



Key comments:

KEY FINDINGS

- Generally St Andrews Castle is in very good condition. 1 class V was removed and recorded and left with Works Mangager. Zone 3 not completed due to nesting birds - Revisit due September 2022 with Rope access team.

PREDOMINANT RISKS:
- Weight limits on drawbridge - Design propping detail being sourced to mitigate heavy plant accessing site.
Nesting birds (Seasonal) Bat roosts (Seasonal).

High-Level Tactile Inspection: Report - Summary dashboard



High-Level Tactile Inspection: Report - Access Scope



PIC ID# **PIC034** Site name St Andrews Castle Access methods: Select all methods used to conduct inspection ψ MEWP No Design Scaffold Alloy Tower Scaffold No No Rope Access Yes Steeplejack Ladder Yes No Ground Yes Binoculars / Photo Yes UAV No Yes

Inspection info:

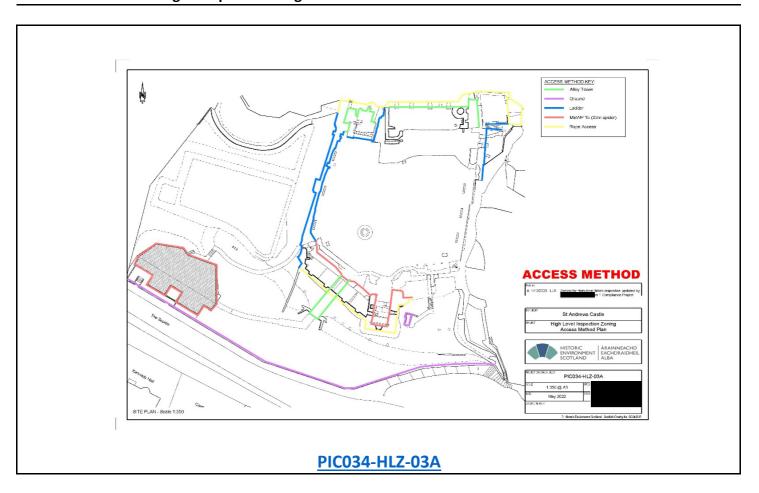
MEWP access limited due to weight restrictions on bridge. has requested design scaffold to accomodate MEWP access over drawbridge for future works. (propping of Drawbridge)

Yes

Areas not inspected: Z03 due to nesting birds & Z15 (Visitor Centre) which was not within current scope as it is modern fabric. UPDATE 14/11/2022 ZO3 was inspected by a rope access team. No observations found. Z17 added following zone revision - no observations found.

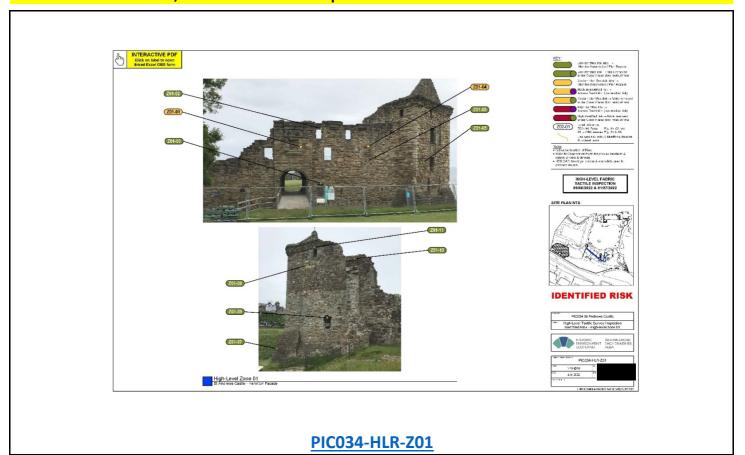


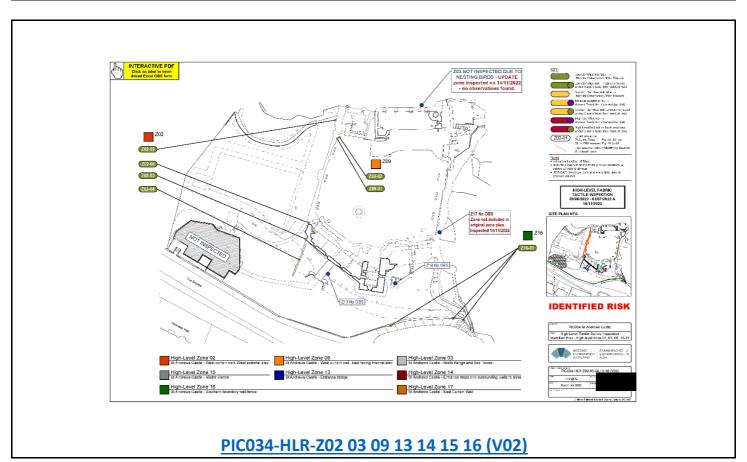
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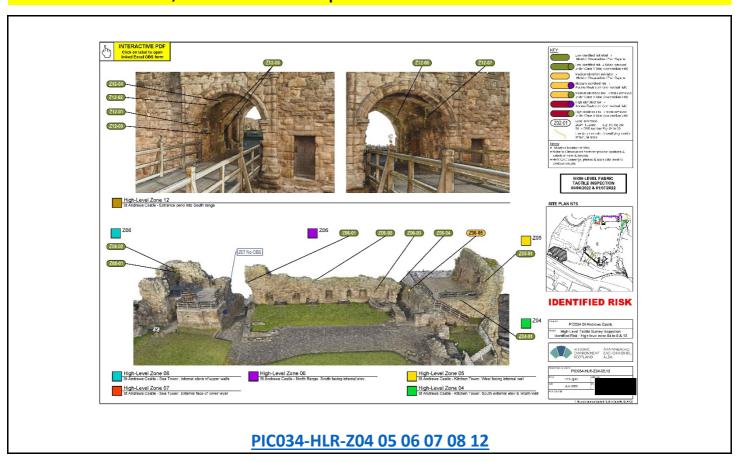


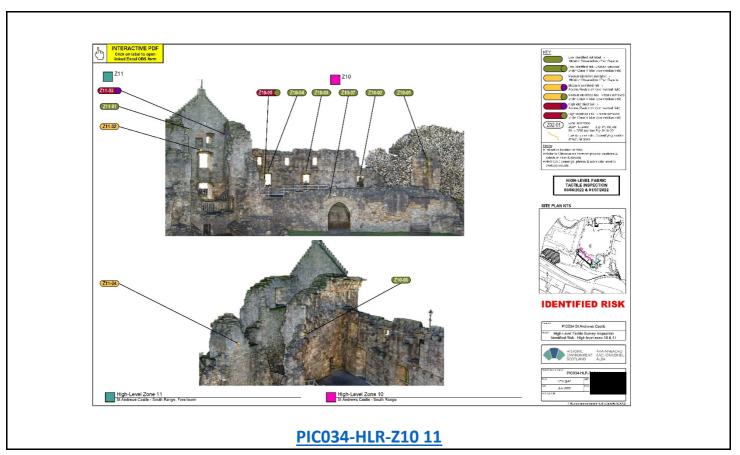


High-Level Tactile Inspection: Report - Risk Drawings



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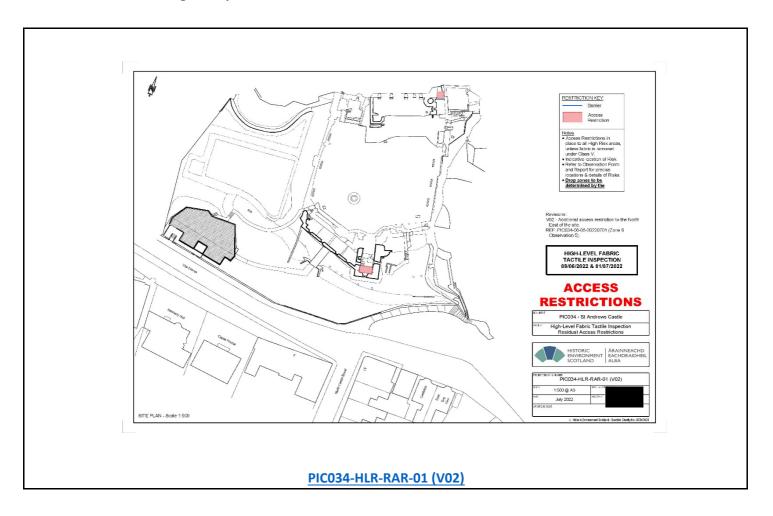




High-Level Tactile Inspection: Report - Access Restrictions Plan



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High-Level Tactile Inspection: Report - Access Restrictions Plan

