

Tactile safety inspection of high-level fabric

REPORT Holyrood Park - St. Anthony's Chapel PIC224



August 2022



HISTORIC
ENVIRONMENT
SCOTLAND

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CONTROL SHEET

Document Control

Title:	Tactile safety inspection of high-level fabric Report PIC224 Holyrood Park - St. Anthony's Chapel
Authors:	[REDACTED]
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Version Control

Version	Date	Status	Prepared by	Amendments
V0001	01/06/2022	Draft	[REDACTED]	First draft
V0100	22/08/2022	Final Version	[REDACTED]	

High-Level Tactile Inspection: Report - Introduction



PIC ID # ↓	PIC224	Site name	Holyrood Park - St Anthony's Chapel		
Inspection start	18/05/2022	Inspection end	18/05/2022	Submission	22/08/2022
Lead Inspector	[REDACTED]				
Other inspectors	[REDACTED]				

Introduction:

The High-Level Inspection of St Anthony's chapel was carried out by [REDACTED] Historic Building Fabric Assessor (HBFA) on the 18th of May 2022.

Two zones covering the complete monument were inspected by rope access contractors (chapel) and from the ground (hermitage)

HLF Inspection Risk Matrix:

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



Re-inspection frequency: (in years)

		Annual Visitor Numbers					No annual visitor numbers available
		up to 5 k	5-20 k	20 - 100 k	100k - 2m	over 2 m	
Identified Risk Rating	Low	5 years	5 years	5 years	4 years	4 years	
	Medium	3 years	3 years	2.5 years	2 years	2 years	
	High	1 year	1 year	1 year	1 year	0.5 year	

HL Zones:

Zone:	Colour:	Zone Name:
1	 	Chapel
2	 	Hermitage

Link to 3D model:

No 3D model available

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



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

SITE PLAN - Scale 1:200

LOCATION PLAN - Scale 1:2500

Zone	Name	Inspection (days)	Access Method
1	Chapel	0.25	Rope Access
2	Heritage	0.25	Ground

HLZ

PROJ: A 12/5/2022 LLS Zoning for High Level Tactile Inspection updated by Tier 1 Compliance Project team
B 16/2/2022 LLS Zone numbers finalised

PROJECT: St Anthony's Chapel
High Level Tactile Inspection Zoning - Site Plan

HISTORIC ENVIRONMENT SCOTLAND | ÀRAINNEACHD ÈACHDRAIDHEIL ALBA

PROJECT NUMBER: PIC224-HLZ-05 B
CALL: 1 200 8 2500 @A3
DT: 12th May 2022
DRAWN BY: [REDACTED]

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[PIC224-HLZ-05B](#)

High-Level Tactile Inspection: Report - Summary dashboard



PIC ID#	PIC224	Site name	Holyrood Park - St Anthony's Chapel	
Submission	22/08/2022	Number of zones	1	
Select zone of which data should be displayed ↓	All zones	Number of observations	8	

Identified Risk



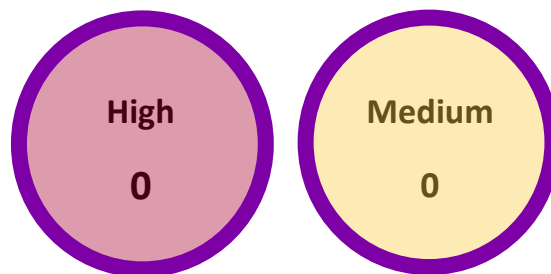
Residual Risk

After Inspection Action



Residual Risk

Mitigated with applied Access Restriction in place



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
	Full site, notifiable	Partial site, notifiable	Partial site, not notifiable	
1	0	0	0	7

Inspection types:	Tactile	8	Visual	0
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Key comments:

KEY FINDINGS

St Anthony's chapel and hermitage were inspected under the batch 2a 'risk mitigation' prioritisation of the High Level Masonry Project. The chapel had been recently inspected by the local MCU team, using the same rope access contractors. Subsequently, only few and mostly minor defects were observed on the chapel only.

PREDOMINANT RISKS:

The site is exposed to the elements as well as many visitors to the park. It's ruinous state invites climbers. Both factors increase the risk of masonry being loosened. However, this was not found to be the case at the moment, possibly due to recent inspection actions. The structures are predominantly constructed from dense basalt as well as sandstone. Pointing was generally found to be in good condition with no vegetation growth evident.

The defects observed during the High Level Masonry Project inspection consisted on stone displaying slight movement when rocked, cracks around the lower window and delamination of a wall head quoin stone resulting in Class V removal of the loose fragment.



High-Level Tactile Inspection: Report - Access Scope



PIC ID #	PIC224	Site name	Holyrood Park - St Anthony's Chapel
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Access methods: Select all methods used to conduction inspection ↓


MEWP	<input type="checkbox"/>	Design Scaffold	<input type="checkbox"/>	Alloy Tower Scaffold	<input type="checkbox"/>
Rope Access	Yes	Steeplejack	<input type="checkbox"/>	Ladder	<input type="checkbox"/>
Ground	<input type="checkbox"/>	Binoculars / Photo	<input type="checkbox"/>	UAV	<input type="checkbox"/>
<hr/>					
					No
					Yes

Inspection info:

Inspection info:	All aspects of the chapel and hermitage were inspected.
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Areas not inspected:	
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Click on link below image to open drawing in PDF viewer:

ACCESS METHOD	
NO.:	A 126/2022 L18 Zoning for High Level Tactile Inspection updated by The 1 Compliance Project team
DETAILS:	St Anthony's Chapel
PROJECT:	High Level Tactile Inspection Access Method - Site Plan
 HISTORIC ENVIRONMENT SCOTLAND ÀRAINNEACHD EACHDRAIDHEIL ALBA	
PROJECT NUMBER: PIC224-HLZ-08 A	
SCALE:	1:200 & 2500 @A3
DATE:	12th May 2022
REVISIONS:	
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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.

INTERACTIVE PDF
Click on label to open linked Excel OBS form

High-Level Zone 01
St Anthony's Chapel - Chapel - North elevation

High-Level Zone 01
St Anthony's Chapel - Chapel - West elevation

High-Level Zone 01
St Anthony's Chapel - Chapel - South elevation

High-Level Zone 01
St Anthony's Chapel - Chapel - East elevation

KEY

- Low identified risk - Masonry Deterioration - The Chapel is low identified risk - fabric condition good - some masonry deterioration is present
- Medium identified risk - Masonry Deterioration - The Chapel is medium identified risk - fabric condition fair - some masonry deterioration is present
- High identified risk - Masonry Deterioration - The Chapel is high identified risk - fabric condition poor - some masonry deterioration is present
- Very high identified risk - Masonry Deterioration - The Chapel is very high identified risk - fabric condition very poor - significant masonry deterioration is present

Z02-01

- Low identified risk - Masonry Deterioration - The Chapel is low identified risk - fabric condition good - some masonry deterioration is present
- Medium identified risk - Masonry Deterioration - The Chapel is medium identified risk - fabric condition fair - some masonry deterioration is present
- High identified risk - Masonry Deterioration - The Chapel is high identified risk - fabric condition poor - some masonry deterioration is present
- Very high identified risk - Masonry Deterioration - The Chapel is very high identified risk - fabric condition very poor - significant masonry deterioration is present

Notes

- Masonry Deterioration is noted
- Notes to a structure are given for precise locations & details of their locations
- Photos are provided to show the extent of deterioration in the structure
- The structure is in good condition

HIGH-LEVEL FABRIC TACTILE INSPECTION
BSW/2022

SITE PLAN 1:500

IDENTIFIED RISK

Project	PIC224 St Anthony's Chapel
Client	High-Level Masonry - Tactile Inspection Identified Risk - High Level Zone 01
Historic Environment Scotland	AN/N/2022/02/01/2022
Project Ref	PIC224-HLR-Z01
Date	17/03/2022
Author	August 2022
Version	1.0

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PIC224-HLR-Z01

INTERACTIVE PDF
Click on label to open linked Excel OBS form

High-Level Zone 02
St Anthony's Chapel - Heritage

KEY

- Low identified risk - Masonry Deterioration - The Chapel is low identified risk - fabric condition good - some masonry deterioration is present
- Medium identified risk - Masonry Deterioration - The Chapel is medium identified risk - fabric condition fair - some masonry deterioration is present
- High identified risk - Masonry Deterioration - The Chapel is high identified risk - fabric condition poor - some masonry deterioration is present
- Very high identified risk - Masonry Deterioration - The Chapel is very high identified risk - fabric condition very poor - significant masonry deterioration is present

Z02-01

- Low identified risk - Masonry Deterioration - The Chapel is low identified risk - fabric condition good - some masonry deterioration is present
- Medium identified risk - Masonry Deterioration - The Chapel is medium identified risk - fabric condition fair - some masonry deterioration is present
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HIGH-LEVEL FABRIC TACTILE INSPECTION
BSW/2022

SITE PLAN 1:500

IDENTIFIED RISK

Project	PIC224 St Anthony's Chapel
Client	High-Level Masonry - Tactile Inspection Identified Risk - High Level Zone 02
Historic Environment Scotland	AN/N/2022/02/01/2022
Project Ref	PIC224-HLR-Z02
Date	17/03/2022
Author	August 2022
Version	1.0

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PIC224-HLR-Z02

High-Level Tactile Inspection: **Report - Access Restrictions Plan**



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No access restrictions from Inspection Actions

