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TECHNICIAN TRAINING FOR THE CONSERVATION OF MOSAICS

PART 1
THE CONSERVATION OF IN SITU MOSAICS

Deterioration of mosaics

Livia Alberti, Ermanno Carbonara, Thomas Roby



Deterioration

The deterioration of a mosaic is the process of transformation that leads to the gradual loss of the original qualities of the constituent materials of a mosaic and the separation of its components (tesserae, mortars).

Main factors of deterioration:

Environment

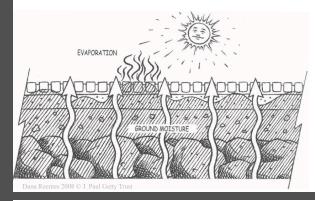
Human activities

Deterioration Process

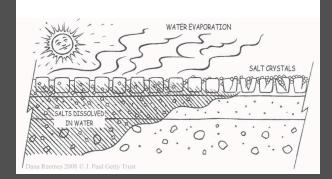
Factors	Causes	& Examples	Examples of Mechanisms	Main Phenomena
	Climatic and environmental agents	Atmospheric precipitation: rain, snow Water condensation / capillary rise Temperature and humidity variations Temperature below 0°C	Salt crystallization due to wet-dry cycles	Efflorescence / Incrustations Deteriorated tesserae
			Contraction—dilatation cycles of materials	Bulges / Detachments Lacunae / cracks
		Marine salt / wind Water pooling / soil accumulation	Freeze-thaw cycles	Deteriorated tesserae Deteriorated mortar between tesserae
		Micro-organisms (algae, lichens, moss, etc.)	Chemical transformation of materials Mechanical pressure caused by root growth	Deteriorated tesserae Deteriorated mortar between tesserae
Environment	Bio-deterioration agents	Vegetation (grass, plants, bushes, trees, etc.)	Mechanical pressure caused by root growth	Bulges / Detachments Lacunae / Cracks Detached tesserae / Stains
Envir		Animals (insects, rats, moles, sheep, cows, etc.)	Loss of material due to the digging of tunnels & building of nests Mechanical pressure caused by walking on mosaics	Bulges / Depressions Detachments / Lacunae / Fractures Detached and deteriorated tesserae / Stains
	Natural disasters	Earthquakes Flooding / Fire Landslides	Movement of mosaic material Chemical transformation of mosaic materials	Lacunae / Cracks Bulges / Depressions Detachments / Detached tesserae / Stains
	Pollution (chemical substances present in air, water and soil)	Agricultural fertilizers Car exhaust emissions Industrial discharges into water and air Acid rain	Chemical transformation of mosaic materials Salt crystallization	Deteriorated tesserae Deteriorated mortar between tesserae Stains Efflorescence / Incrustations
ies	Poor management of archaeological sites	Water pooling / soil accumulation Uncontrolled tourist access Growth of plants and micro-organisms	Salt crystallization Mechanical pressure caused by walking on mosaics and by root growth	Lacunae / Cracks - Detachments
Human activities	Inappropriate conservation interventions	Poorly executed work Use of inappropriate materials Untrained staff	Salt crystallization Chemical transformation of materials	Bulges / Depressions Detached tesserae Deteriorated tesserae
	Gratuitous, deliberate or accidental destruction	Vandalism, wars, etc. Theft of mosaic fragments Illegal excavations	Loss of materals of the mosaic	Deteriorated repair mortars Deteriorated support panels Stains
	Poor land use planning	New constructions (buildings, roads, etc.) without proper excavation	Loss of materals of the mosaic	

CONDENSATION when the surface is cooler than the air

CAPILLARY RISE OF WATER



SALT CRYSTALLIZATION





Damaged Tesserae





Efflorescence



Bulges, Detachments, Cracks, Lacunae, Detached Tesserae

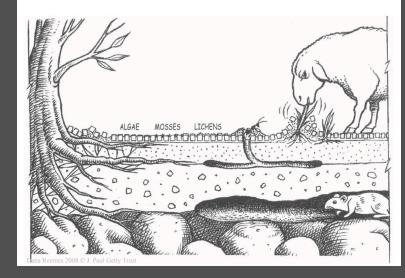


Incrustation

Deterioration Process

Factors	Causes	& Examples	Examples of Mechanisms	Main Phenomena
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	Climatic and environmental agents		Contraction—dilatation cycles of materials	Bulges / Detachments Lacunae / cracks
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	Poor land use planning	New constructions (buildings, roads, etc.) without proper excavation	Loss of materals of the mosaic	

DETERIORATION CAUSED BY ANIMALS AND PLANTS







Tree roots





Grass roots





Lichens





Tunnels and entrance holes made by animals



Bird excrement



Deterioration Process

Factors	Causes	& Examples	Examples of Mechanisms	Main Phenomena
		Atmospheric precipitation: rain, snow Water condensation / capillary rise	Salt crystallization due to wet-dry cycles	Efflorescence / Incrustations Deteriorated tesserae
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Landslide



Bulges, Detachments, Cracks, Lacunae, Detached Tesserae







Efflorescence, Damaged tesserae



Deterioration Process

Factors	Causes	& Examples	Examples of Mechanisms	Main Phenomena
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Foot traffic New constructions





Lack of maintenance





Poor intervention

Particular deterioration phenomena due to the type and quality of the materials



Damaged Tesserae

DATE

		MO	SAIC ID///
INSPECTION TYPE	☐ Initial inspecti		☐ Maintenance cycle
			■ Maintenance cycle
PRESENT EXPOSURE CON ☐ In open air	Reburied		☐ Under an open shelter
☐ Walked on	☐ Under a remo	vable cover	☐ Under a closed shelter
☐ Parts not excavated			
	check the boxes of all the deter on phenomena that have occu		that are present. During maintenance cycle pection or last intervention.
STRUCTURAL DETERIORA	ATION		(Condition Assessment Map No.
☐ Tessellatum lacunae		☐ Depress	sions
□ Cracks □ Bulges		☐ Detach	ments between mosaic layers
SURFACE DETERIORATIOI	N		(Condition Assessment Map No.
☐ Detached tesserae		☐ Stains	
Deteriorated tessera		☐ Incrusta☐ Efflores	
☐ Deteriorated mortar	between tesserae	□ Eπiores	
PRESENCE OF BIO-DETER	IORATION AGENTS		(Condition Assessment Map No.
☐ Micro-organisms			or entrance holes made by
☐ Vegetation		insects	and other animals
DETERIORATION OF INTE			(Condition Assessment Map No.
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Reburial:	☐ Presence of veget		rated support metal removemen
	☐ Loss of fill materia		
	☐ Deteriorated sepa	ration membran	es
DETERIORATION OF INTE	RVENTIONS AROUND THE	MOSAIC	
☐ Clogged drainage			d cover or shelter
☐ Stabilized walls with	new deterioration	☐ Damaged a	ccess barrier
		Other:	
OBSERVATIONS ON THE C	CONDITION ASSESSMENT		
GENERAL CONDITION OF			
	Good	☐ Fair	☐ Bad
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INSPECTION TYPE	☐ Initial inspection	1	☐ Maintenance o	ycle
PRESENT EXPOSURE CONDI ☐ In open air ☐ Walked on ☐ Parts not excavated or	☐ Reburied ☐ Under a remova	ble cover	☐ Under an oper☐ Under a closed	
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SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar be	etween tesserae	☐ Stains☐ Incrustatio☐ Efflorescei		nent Map No. 2)
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OBSERVATIONS ON THE CO	NDITION ASSESSMENT			
GENERAL CONDITION OF THE GENERAL CONDITION OF	ood for next inspection: d)	□ Fair	□ Bad	
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STRUCTURAL DETERIORA ☐ Tessellatum lacunae ☐ Cracks ☐ Bulges		☐ Depre		nosaic layers
SURFACE DETERIORATIO Detached tesserae Deteriorated tessera Deteriorated mortan	e	☐ Stains ☐ Incrus ☐ Efflore	tations	eessment Map No. 2)
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☐ Date recommend (Intervention require	ed for intervention: d)			
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Subject to foot traffic





Under a temporary open shelter

DATA FORM NO. 3	- CONDITION			STUDY PHASE
		MOSAI		
INSPECTION TYPE	☐ Initial inspection		☐ Maintenance cy	/cle
PRESENT EXPOSURE CONDITIO ☐ In open air ☐ Walked on ☐ Parts not excavated or inaction	☐ Reburied☐ Under a removal	ble cover	☐ Under an open☐ Under a closed	
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SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar between	een tesserae	☐ Stains ☐ Incrustatio ☐ Efflorescer		ent Map No. 2)
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GENERAL CONDITION OF THE M GOOD Date recommended for (No intervention required) Date recommended for (Intervention required)	next inspection:	□ Fair	□Bad	

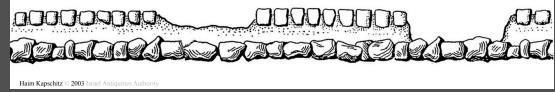
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Tessellatum lacunae

Part of a mosaic where the tesserae layer has been lost.





Different levels of lacunae in a mosaic

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SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar between	een tesserae	☐ Stains☐ Incrustatio☐ Efflorescen		nent Map No. 2)
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DETERIORATION OF INTERVENT ☐ Clogged drainage ☐ Stabilized walls with new of the condition of the conditio	deterioration	osAIC ☐ Deteriorated co ☐ Damaged acce ☐ Other:	ss barrier	
GENERAL CONDITION OF THE N GOOD Date recommended for (No intervention required) Date recommended for (Intervention required)	next inspection:	□ Fair	□ Bad	

DATE

Cracks

Linear fissure visible on the surface of the mosaic that could also continue into the bedding layers.





DATA FORM NO. 3 -	- CONDITION	ASSESSM	ENT	STUDY PHASE
		MOS	AIC ID/	
INSPECTION TYPE	☐ Initial inspection		☐ Maintenance o	cycle
PRESENT EXPOSURE CONDITION ☐ In open air ☐ Walked on ☐ Parts not excavated or inac	☐ Reburied☐ Under a removab		☐ Under an oper☐ Under a closed	d shelter
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STRUCTURAL DETERIORATION ☐ Tessellatum lacunae ☐ Cracks 爰 Bulges		☐ Depressi☐ Detachm	(Condition Assessi ions nents between mosa	
SURFACE DETERIORATION ☐ Detached tesserae ☐ Deteriorated tesserae ☐ Deteriorated mortar between	een tesserae	☐ Stains☐ Incrustat☐ Effloresc		ment Map No. 2)
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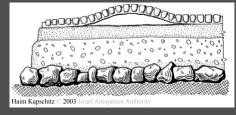
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Bulges

An upward deformation of the mosaic above its original surface level.





Bulge with detachment



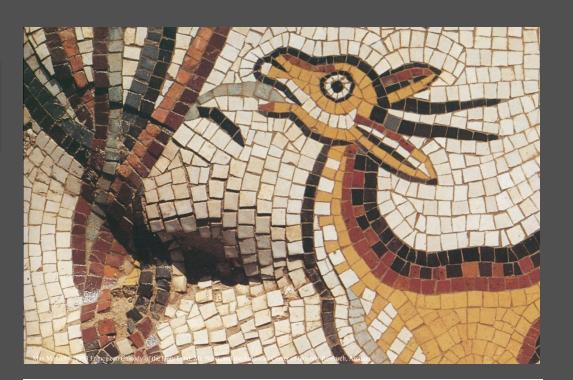
Bulge without detachment

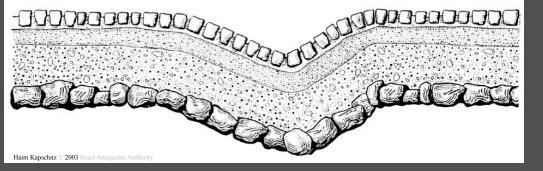
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DATA FORM NO.	3 – CONDITION	ASSESSMENT STUDY PHASE
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INSPECTION TYPE	☐ Initial inspection	n 🔲 Maintenance cycle
PRESENT EXPOSURE COND In open air Walked on Parts not excavated or	☐ Reburied☐ Under a remova	☐ Under an open shelter ☐ Under a closed shelter
		ration phenomena that are present. During maintenance cycles, ed since the last inspection or last intervention.
STRUCTURAL DETERIORATI Tessellatum lacunae Cracks Bulges	ION	(Condition Assessment Map No. 1) Depressions Detachments between mosaic layers
SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar b	etween tesserae	(Condition Assessment Map No. 2) ☐ Stains ☐ Incrustations ☐ Efflorescence
PRESENCE OF BIO-DETERIO ☐ Micro-organisms ☐ Vegetation	PRATION AGENTS	(Condition Assessment Map No. 3) ☐ Tunnels or entrance holes made by insects and other animals
DETERIORATION OF INTERN ☐ Deteriorated lacunae f edging repairs ☐ Deteriorated mortar b Reburial:	ills or	
DETERIORATION OF INTERV ☐ Clogged drainage ☐ Stabilized walls with no		IOSAIC ☐ Deteriorated cover or shelter ☐ Damaged access barrier ☐ Other:
OBSERVATIONS ON THE CO	NDITION ASSESSMENT	
☐ Date recommended (No intervention require	ood I for next inspection:	

Depressions

A downward deformation of the mosaic below its original surface level.





DATA FORM NO. 3 – CONDITIO	N ASSESSMENT STUDY PHASE
	MOSAIC ID////
INSPECTION TYPE Initial inspect	ion
PRESENT EXPOSURE CONDITIONS ☐ In open air ☐ Reburied ☐ Walked on ☐ Under a remo ☐ Parts not excavated or inaccessible	☐ Under an open shelter ovable cover ☐ Under a closed shelter
During the initial inspection, check the boxes of all the dete only indicate new deterioration phenomena that have occ	erioration phenomena that are present. During maintenance cycles, urred since the last inspection or last intervention.
STRUCTURAL DETERIORATION ☐ Tessellatum lacunae ☐ Cracks ☐ Bulges	(Condition Assessment Map No. 1) ☐ Depressions ☐ Detachments between mosaic layers
SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar between tesserae	(Condition Assessment Map No. 2) ☐ Stains ☐ Incrustations ☐ Efflorescence
PRESENCE OF BIO-DETERIORATION AGENTS ☐ Micro-organisms ☐ Vegetation	(Condition Assessment Map No. 3) ☐ Tunnels or entrance holes made by insects and other animals
DETERIORATION OF INTERVENTIONS Deteriorated lacunae fills or edging repairs Deteriorated mortar between tesserae Reburial: Deteriorated mortar between tesserae Loss of fill materia	
DETERIORATION OF INTERVENTIONS AROUND TH ☐ Clogged drainage ☐ Stabilized walls with new deterioration	E MOSAIC ☐ Deteriorated cover or shelter ☐ Damaged access barrier ☐ Other:
OBSERVATIONS ON THE CONDITION ASSESSMENT	
GENERAL CONDITION OF THE MOSAIC Good Date recommended for next inspection: (No intervention required) Date recommended for intervention: (Intervention required)	

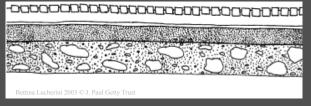
Detachments between mosaic layers

Separation or void between two layers of the mosaic. A detachment is generally not visible and can be detected by the corresponding hollow sound produced when it is tapped.





Detachment with bulge



Detachment without bulge

DATA FORM NO	.3 – CONDITION	ASSESSME	NT	STUDY PHASE
		MOSAI		
INSPECTION TYPE	☐ Initial inspection	1	☐ Maintenance c	ycle
PRESENT EXPOSURE CONI	DITIONS			
☐ In open air	☐ Reburied		☐ Under an oper	shelter
☐ Walked on	☐ Under a remova	ble cover	☐ Under a closed	shelter
☐ Parts not excavated o	or inaccessible			
	heck the boxes of all the deterior n phenomena that have occurre			
STRUCTURAL DETERIORA	TION		(Condition Assessn	nent Map No. 1)
☐ Tessellatum lacunae		Depression	าร	
☐ Cracks		Detachme	nts between mosa	ic layers
☐ Bulges				
SURFACE DETERIORATION	I		(Condition Assessn	nent Map No. 2)
Detached tesserae		☐ Stains		
Deteriorated tesserae		☐ Incrustatio		
☐ Deteriorated mortar l	oetween tesserae	☐ Efflorescer	nce	
PRESENCE OF BIO-DETERI	ORATION AGENTS		(Condition Assessn	
☐ Micro-organisms			entrance holes ma	de by
☐ Vegetation		insects and	d other animals	
DETERIORATION OF INTER	RVENTIONS		(Condition Assessn	nent Map No. 4)
☐ Deteriorated lacunae	fills or	☐ Re-detach	ed tesserae	
edging repairs		Deteriorate	ed support panels	
Deteriorated mortar l	oetween tesserae	☐ Deteriorate	ed support metal r	einforcements
Reburial:	☐ Presence of vegetat	ion		
	☐ Loss of fill materials			
	☐ Deteriorated separa	tion membranes		
DETERIORATION OF INTER	RVENTIONS AROUND THE M	IOSAIC		
☐ Clogged drainage		☐ Deteriorated co	over or shelter	
Stabilized walls with i	new deterioration	☐ Damaged acce	ss barrier	
		Other:		
OBSERVATIONS ON THE C	ONDITION ASSESSMENT			
GENERAL CONDITION OF		Det		
	Good d for next inspection:	☐ Fair	☐ Bad	
(No intervention requi				
☐ Date recommende				
(Intervention required				
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Detached tesserae

Tessera that is still in its original place but no longer adheres to the bedding layer and therefore moves when lightly touched.







Tesserae detached from bedding layer with change of position (center)

Disaggregation of tesserae

Delamination of tesserae

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nly indicate new deterioration phenomena that have occur		
TRUCTURAL DETERIORATION	(Condition A	ssessment Map No. 1)
Tessellatum lacunae	☐ Depressions	
2 Cracks	☐ Detachments between	mosaic layers
2 Bulges		
URFACE DETERIORATION	(Condition A	ssessment Map No. 2)
Detached tesserae	☐ Stains	
Deteriorated tesserae	Incrustations	
Deteriorated mortar between tesserae	☐ Efflorescence	
RESENCE OF BIO-DETERIORATION AGENTS	(Condition A:	ssessment Map No. 3)
☐ Micro-organisms	☐ Tunnels or entrance hol	es made by
☐ Vegetation	insects and other anima	ils
PETERIORATION OF INTERVENTIONS	(Condition A	ssessment Map No. 4)
Deteriorated lacunae fills or	☐ Re-detached tesserae	
edging repairs	☐ Deteriorated support pa	anels
Deteriorated mortar between tesserae	☐ Deteriorated support m	etal reinforcements
Reburial: Presence of vegeta	lion	
☐ Loss of fill material		
☐ Deteriorated separ	tion membranes	
DETERIORATION OF INTERVENTIONS AROUND THE	NOSAIC	
Clogged drainage	☐ Deteriorated cover or shelte	r
Stabilized walls with new deterioration	☐ Damaged access barrier	
	Other:	
DBSERVATIONS ON THE CONDITION ASSESSMENT		
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☐ Good ☐ Date recommended for next inspection: _		ad
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Deteriorated mortar between tesserae

Mortar located in the interstices between the tesserae that is lost or no longer in good condition.





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DATA FORM NO	.3 - CONDITION	I ASSESSMEI	NT STUDY PE	HASE
		MOSAIC		
NSPECTION TYPE	☐ Initial inspection	า	☐ Maintenance cycle	
PRESENT EXPOSURE CONI	DITIONS			
☐ In open air	☐ Reburied		☐ Under an open shelter	
☐ Walked on	☐ Under a remova	ble cover	☐ Under a closed shelter	
Parts not excavated o	r inaccessible			
	heck the boxes of all the deterion n phenomena that have occurr		are present. During maintenance cy on or last intervention.	ycles,
STRUCTURAL DETERIORA	TION		(Condition Assessment Map N	Vo. 1,
Tessellatum lacunae		Depression	S	
☐ Cracks		☐ Detachmer	its between mosaic layers	
□ Bulges				
SURFACE DETERIORATION			(Condition Assessment Map N	Vo. 2)
Detached tesserae		Stains		
☐ Deteriorated tesserae		Incrustation		
☐ Deteriorated mortar I	between tesserae	☐ Efflorescen	ce 	
PRESENCE OF BIO-DETERI	ORATION AGENTS		(Condition Assessment Map N	lo. 3)
☐ Micro-organisms			entrance holes made by	
☐ Vegetation		insects and	other animals	
DETERIORATION OF INTER	EVENTIONS		(Condition Assessment Map N	lo. 4)
☐ Deteriorated lacunae	fills or	☐ Re-detache		
edging repairs		Deteriorate	d support panels	
Deteriorated mortar l	oetween tesserae	Deteriorate	d support metal reinforceme	ents
Reburial:	☐ Presence of vegeta	ion		
	Loss of fill materials			
	☐ Deteriorated separa	ation membranes		
DETERIORATION OF INTER	EVENTIONS AROUND THE M	IOSAIC		
☐ Clogged drainage		☐ Deteriorated co	ver or shelter	
☐ Stabilized walls with r	new deterioration	☐ Damaged acces	s barrier	
		Other:		
DBSERVATIONS ON THE C	ONDITION ASSESSMENT			
GENERAL CONDITION OF T	THE MOSAIC Good	☐ Fair	☐ Bad	
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☐ Date recommende				
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Stains

Localized changes in color of the mosaic surface.





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DATA FORM NO. 3	B – CONDITIO	N ASSESSME	NT STUDY P	HASE
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INSPECTION TYPE	☐ Initial inspection	on	☐ Maintenance cycle	
PRESENT EXPOSURE CONDIT ☐ In open air ☐ Walked on ☐ Parts not excavated or in	☐ Reburied☐ Under a remov	able cover	☐ Under an open shelter☐ Under a closed shelter	
During the initial inspection, chec only indicate new deterioration p			nt are present. During maintenance c tion or last intervention.	
STRUCTURAL DETERIORATION TESSEllatum lacunae Cracks Bulges) N	☐ Depression☐ Detachme	(Condition Assessment Map I ns nts between mosaic layers	No. 1)
surface deterioration Detached tesserae Deteriorated tesserae Deteriorated mortar bet	tween tesserae	☐ Stains ☐ Incrustatio ☐ Efflorescer		Vo. 2)
PRESENCE OF BIO-DETERIOR ☐ Micro-organisms ☐ Vegetation	ATION AGENTS		(Condition Assessment Map I entrance holes made by d other animals	Vo. 3)
	s or	☐ Deteriorate ation s	(Condition Assessment Map I ed tesserae ed support panels ed support metal reinforcem	
DETERIORATION OF INTERVE Clogged drainage Stabilized walls with nev		MOSAIC Deteriorated or Damaged acce	ess barrier	
OBSERVATIONS ON THE CON	DITION ASSESSMENT			
GENERAL CONDITION OF THI Go Date recommended f (No intervention required) Date recommended f (Intervention required)	od for next inspection: _)		□ Bad	

Incrustations

Mineral crust of variable thickness and area that is often hard and compact, located on the surface of the mosaic.





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		MOSAIC ID////
INSPECTION TYPE	☐ Initial inspection	n 🔲 Maintenance cycle
PRESENT EXPOSURE COND	ITIONS	
☐ In open air	☐ Reburied	☐ Under an open shelter
☐ Walked on	☐ Under a remova	able cover Under a closed shelter
Parts not excavated or	inaccessible	
		oration phenomena that are present. During maintenance cycles, ed since the last inspection or last intervention.
STRUCTURAL DETERIORAT	ION	(Condition Assessment Map No. 1
☐ Tessellatum lacunae		☐ Depressions
☐ Cracks		☐ Detachments between mosaic layers
□ Bulges SURFACE DETERIORATION		(Condition Assessment Man No. 3
☐ Detached tesserae		(Condition Assessment Map No. 2 ☐ Stains
☐ Deteriorated tesserae		☐ Incrustations
☐ Deteriorated mortar b	etween tesserae	E fflorescence
PRESENCE OF BIO-DETERIO	DRATION AGENTS	(Condition Assessment Map No. 3
☐ Micro-organisms		☐ Tunnels or entrance holes made by
☐ Vegetation		insects and other animals
DETERIORATION OF INTER	/ENTIONS	(Condition Assessment Map No. 4
Deteriorated lacunae f	ills or	☐ Re-detached tesserae
edging repairs		Deteriorated support panels
Deteriorated mortar b	etween tesserae	Deteriorated support metal reinforcements
Reburial:	☐ Presence of vegetat	don
	☐ Loss of fill materials	
	☐ Deteriorated separa	ation membranes
DETERIORATION OF INTER	VENTIONS AROUND THE N	OSAIC
☐ Clogged drainage		☐ Deteriorated cover or shelter
☐ Stabilized walls with n	ew deterioration	☐ Damaged access barrier
		☐ Other:
OBSERVATIONS ON THE CO	NDITION ASSESSMENT	
GENERAL CONDITION OF T	HE MOSAIC	
	ood	☐ Fair ☐ Bad
	for next inspection:	
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Efflorescences

Generally a white and crystalline substance, which adheres loosely to the mosaic surface, and is powder-like in appearance.





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INSPECTION TYPE	☐ Initial inspection		☐ Maintenance	cycle
PRESENT EXPOSURE CON				1 1
In open air	☐ Reburied		Under an ope	
□ Walked on □ Parts not excavated	☐ Under a removor inaccessible	able cover	☐ Under a close	d shelter
	check the boxes of all the deter on phenomena that have occu			
STRUCTURAL DETERIOR	ATION		(Condition Assess	ment Map No. 1
☐ Tessellatum lacunae		☐ Depression		
☐ Cracks			nts between mos	aic layers
☐ Bulges				,
SURFACE DETERIORATIO	N		(Condition Assess	ment Map No. 2
☐ Detached tesserae		Stains		
Deteriorated tessera	е	☐ Incrustatio	ns	
☐ Deteriorated mortar	between tesserae	☐ Efflorescen	ice	
PRESENCE OF BIO-DETER	IORATION AGENTS		(Condition Assess	ment Map No. 3
Micro-organisms		☐ Tunnels or	entrance holes m	ade by
☐ Vegetation		insects and	d other animals	
DETERIORATION OF INTE			(Condition Assess	ment Map No. 4
Deteriorated lacunae	e fills or	Re-detache		
edging repairs			ed support panels	
Deteriorated mortar			ed support metal	reinforcements
Reburial:	☐ Presence of vegeta			
	Loss of fill material			
	☐ Deteriorated sepa	ration membranes		
DETERIORATION OF INTE	RVENTIONS AROUND THE			
Clogged drainage		☐ Deteriorated co		
☐ Stabilized walls with	new deterioration	☐ Damaged acce		
		Other:		
 OBSERVATIONS ON THE C	ONDITION ASSESSMENT			
GENERAL CONDITION OF	THE MOSAIC			
	Good	☐ Fair	☐ Bad	
	ed for next inspection: _			
(No intervention requ				
	ed for intervention:			
(Intervention required				

Micro-organisms

Small organisms varying in color and shape, alive or dead, such as algae, lichens, and mosses that adhere to the mosaic surface.





Lichens



Mosses

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NSPECTION TYPE PRESENT EXPOSURE CONDI			SAIC ID////
DECENT EVROCURE CONDU	☐ Initial inspectio		☐ Maintenance cycle
In open air	Reburied		☐ Under an open shelter
⊒ Walked on	☐ Under a remov	able server	Under a closed shelter
☐ Warked on ☐ Parts not excavated or		able cover	Under a closed sheller
During the initial inspection, che			n that are present. During maintenance cycles,
STRUCTURAL DETERIORATION	ON		(Condition Assessment Map No. 1
Tessellatum lacunae		☐ Depres	
Cracks			
⊒ Cracks ⊒ Bulges		Detach	ments between mosaic layers
SURFACE DETERIORATION			(Condition Assessment Man No. 3
Detached tesserae		☐ Stains	(Condition Assessment Map No. 2
			- * i - ·
Deteriorated tesserae		☐ Incrusta	
☐ Deteriorated mortar be	tween tesserae	☐ Efflores	scence
PRESENCE OF BIO-DETERIO	RATION AGENTS		(Condition Assessment Map No. 3
☐ Micro-organisms		☐ Tunnels	s or entrance holes made by
₹ Vegetation		insects	and other animals
DETERIORATION OF INTERV	ENTIONS		(Condition Assessment Map No. 4
☐ Deteriorated lacunae fi	lls or	☐ Re-deta	ached tesserae
edging repairs		☐ Deterio	orated support panels
Deteriorated mortar be	tween tesserae	☐ Deterio	orated support metal reinforcements
Reburial:	☐ Presence of vegeta	ation	
	☐ Loss of fill materials		
	☐ Deteriorated separ		ies
DETERIORATION OF INTERV	ENTIONS ADOLING THE	MOCALC	
Clogged drainage	ENTIONS AROUND THE		d cover or shelter
☐ Stabilized walls with ne	vy dotoviovation	☐ Damaged a	
a Stabilized Walls With He	w deterioration		
		Other:	
DBSERVATIONS ON THE COI	NDITION ASSESSMENT		
SENERAL CONDITION OF TH	IE MOSAIC		
GENERAL CONDITION OF TH		□ Fair——	∏ Bad
□ Ge	ood	□ Fair	□ Bad
☐ G o ☐ Date recommended	ood for next inspection:		□ Bad
□ Ge	ood for next inspection: _ d)		□ Bad

Vegetation

Plants such as grasses, weeds, bushes, as well as trees and their associated roots growing under, inside, or on top of the mosaic.





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INSPECTION TYPE	☐ Initial inspection		☐ Maintenance o	
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PRESENT EXPOSURE CON ☐ In open air	□ Reburied		☐ Under an ope	a shaltar
☐ Walked on	☐ Under a remova		Under all oper	
☐ Parts not excavated of		pie covei c	a Officer a closed	a sileitei
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STRUCTURAL DETERIORA	TION		Condition Assessi	nent Map No. 1)
☐ Tessellatum lacunae		☐ Depressions		
☐ Cracks		☐ Detachment	s between mosa	nic layers
☐ Bulges				
SURFACE DETERIORATIO	N		Condition Assessr	ment Map No. 2)
☐ Detached tesserae		☐ Stains		
☐ Deteriorated tesserae	2	☐ Incrustations	;	
☐ Deteriorated mortar	between tesserae	☐ Efflorescence	2	
PRESENCE OF BIO-DETER	IORATION AGENTS	(0	Condition Assessr	nent Map No. 3)
☐ Micro-organisms			ntrance holes ma	
☐ Vegetation		insects and o	other animals	ŕ
DETERIORATION OF INTE	RVENTIONS	((Condition Assessr	ment Map No. 4)
☐ Deteriorated lacunae	fills or	☐ Re-detached	l tesserae	
edging repairs		☐ Deteriorated	support panels	
☐ Deteriorated mortar	between tesserae	☐ Deteriorated	support metal i	reinforcements
Reburial:	☐ Presence of vegetat	ion		
	☐ Loss of fill materials			
	☐ Deteriorated separa	tion membranes		
DETERIORATION OF INTE	RVENTIONS AROUND THE M	OSAIC		
☐ Clogged drainage		☐ Deteriorated cov	er or shelter	
☐ Stabilized walls with	new deterioration	☐ Damaged access	barrier	
		Other:		
OBSERVATIONS ON THE C	ONDITION ASSESSMENT			
GENERAL CONDITION OF				
		☐ Fair	☐ Bad	
☐ Date recommende (No intervention requ	ed for next inspection: ired)			
☐ Date recommende	ed for intervention:			
(Intervention required				
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Tunnel or entrance hole made by insects or other animals

An area of the mosaic where insects or other animals have burrowed.





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INSPECTION TYPE	☐ Initial inspection	22	☐ Maintenance cycle
		JII	a Maintenance cycle
PRESENT EXPOSURE COND			
In open air	Reburied		Under an open shelter
☐ Walked on ☐ Parts not excavated or	☐ Under a removing inaccessible	able cover	☐ Under a closed shelter
During the initial inspection, cheonly indicate new deterioration			that are present. During maintenance cycles, pection or last intervention.
STRUCTURAL DETERIORAT	ION		(Condition Assessment Map No. 1
☐ Tessellatum lacunae		☐ Depress	sions
□ Cracks □ Bulges		☐ Detachr	ments between mosaic layers
SURFACE DETERIORATION			(Condition Assessment Map No. 2
☐ Detached tesserae		☐ Stains	
☐ Deteriorated tesserae		☐ Incrusta	ations
☐ Deteriorated mortar b	etween tesserae	☐ Efflores	cence
PRESENCE OF BIO-DETERIO	DRATION AGENTS		(Condition Assessment Map No. 3
☐ Micro-organisms		☐ Tunnels	or entrance holes made by
☐ Vegetation		insects	and other animals
DETERIORATION OF INTER			
edging repairs	fills or	☐ Deterio	(Condition Assessment Map No. 4 iched tesserae rated support panels
edging repairs Deteriorated mortar b	fills or etween tesserae	☐ Deterior☐ Deterior☐	iched tesserae
edging repairs	etween tesserae Presence of vegeta	Deterior Deterior	iched tesserae rated support panels
edging repairs ☐ Deteriorated mortar b	fills or etween tesserae Presence of veget. Loss of fill materia	☐ Deterior ☐ Deterior ation	nched tesserae rated support panels rated support metal reinforcements
edging repairs ☐ Deteriorated mortar b Reburial:	etween tesserae Presence of veget Coss of fill materia Deteriorated sepa	☐ Deterior ☐ Deterior ation Is ration membrane	nched tesserae rated support panels rated support metal reinforcements
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Deteriorated lacunae fills or edging repairs

Lacuna fill or edging repair between tesserae in poor condition, presenting cracks, erosion or other types of damage.





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DATA FORM NO. 3 – C	ONDITION	ASSESSME	NT	STUDY PHAS
		MOSAI		
INSPECTION TYPE	Initial inspection		☐ Maintenance	cycle
	Reburied Under a removab ssible	le cover	☐ Under an op☐ Under a close	
During the initial inspection, check the bo only indicate new deterioration phenome				
STRUCTURAL DETERIORATION ☐ Tessellatum lacunae ☐ Cracks ☐ Bulges		☐ Depressio☐ Detachme	(Condition Asses ns ents between mo	
SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar between	tesserae	☐ Stains☐ Incrustatio☐ Efflorescei		sment Map No. 2
PRESENCE OF BIO-DETERIORATION ☐ Micro-organisms ☐ Vegetation	I AGENTS		(Condition Asses entrance holes n d other animals	
DETERIORATION OF INTERVENTION Deteriorated lacunae fills or edging repairs Deteriorated mortar between			(Condition Asses ed tesserae ed support panel ed support meta	Is
Los	sence of vegetations of fill materials teriorated separati			
DETERIORATION OF INTERVENTION ☐ Clogged drainage ☐ Stabilized walls with new dete	erioration C	SAIC Deteriorated of Damaged accelloon	ess barrier	
OBSERVATIONS ON THE CONDITION	N ASSESSMENT			
GENERAL CONDITION OF THE MOSA Good Date recommended for nex (No intervention required)		l Fair	☐ Bad	
☐ Date recommended for inte (Intervention required)	ervention:			
PREPARED BY			DATE	

Deteriorated mortar between tesserae

Mortar fill between tesserae in poor condition, presenting cracks, erosion, or other types of damage.





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		MOSAIC I	
NSPECTION TYPE	☐ Initial inspection	Į.	☐ Maintenance cycle
PRESENT EXPOSURE COND	DITIONS		
☐ In open air	☐ Reburied	[☐ Under an open shelter
☐ Walked on	☐ Under a removal	ole cover [☐ Under a closed shelter
☐ Parts not excavated o	r inaccessible		
	neck the boxes of all the deterior n phenomena that have occurre		rre present. During maintenance cycles, n or last intervention.
STRUCTURAL DETERIORAT	TION		Condition Assessment Map No. 1)
☐ Tessellatum lacunae		Depressions	
☐ Cracks		☐ Detachment	s between mosaic layers
☐ Bulges			ŕ
SURFACE DETERIORATION		(1	Condition Assessment Map No. 2)
☐ Detached tesserae		☐ Stains	
☐ Deteriorated tesserae		☐ Incrustations	5
☐ Deteriorated mortar b	oetween tesserae	☐ Efflorescence	e
PRESENCE OF BIO-DETERI	ORATION AGENTS	(Condition Assessment Map No. 3)
☐ Micro-organisms		☐ Tunnels or e	ntrance holes made by
3			
☐ Vegetation DETERIORATION OF INTER ☐ Deteriorated lacunae edging repairs		(√	
DETERIORATION OF INTER	fills or	((▼Re-detached □ Deteriorated □ Deteriorated	Condition Assessment Map No. 4,
DETERIORATION OF INTER Deteriorated lacunae edging repairs Deteriorated mortar b	fills or between tesserae ••••••••••••••••••••••••••••••••••••	Re-detached Deteriorated Deteriorated	Condition Assessment Map No. 4) I tesserae I support panels
DETERIORATION OF INTER Deteriorated lacunae edging repairs Deteriorated mortar b Reburial:	netween tesserae Presence of vegetati Closs of fill materials	Re-detached Deteriorated Deteriorated Deteriorated On	Condition Assessment Map No. 4) I tesserae I support panels
DETERIORATION OF INTER Deteriorated lacunae edging repairs Deteriorated mortar b Reburial:	fills or petween tesserae Presence of vegetati Loss of fill materials Deteriorated separar VENTIONS AROUND THE M	Re-detached Deteriorated Deteriorated Deteriorated On	Condition Assessment Map No. 4) I tesserae I support panels I support metal reinforcements
DETERIORATION OF INTER Deteriorated lacunae edging repairs Deteriorated mortar b Reburial:	fills or petween tesserae Presence of vegetati Loss of fill materials Deteriorated separar VENTIONS AROUND THE M	Re-detached Deteriorated Deteriorated Deteriorated Don ion membranes	Condition Assessment Map No. 4) I tesserae I support panels I support metal reinforcements
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DETERIORATION OF INTER Deteriorated lacunae edging repairs Deteriorated mortar b Reburial: DETERIORATION OF INTER Clogged drainage Stabilized walls with r	fills or petween tesserae Presence of vegetati Loss of fill materials Deteriorated separa VENTIONS AROUND THE M new deterioration	Control of the contro	Condition Assessment Map No. 4) I tesserae I support panels I support metal reinforcements
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Re-detached tesserae or detached tesserae of a lifted and re-laid mosaic

Tesserae already reset during a previous intervention that are no longer adhered, or detached tesserae from a section of the mosaic that has been lifted and re-laid on a new support.





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DAIA I ORIVI NO. 3	- CONDITION	ASSESSME	ENT STUDY PHASE
		MOSA	
INSPECTION TYPE	☐ Initial inspection	1	☐ Maintenance cycle
PRESENT EXPOSURE CONDITI ☐ In open air ☐ Walked on ☐ Parts not excavated or in	☐ Reburied ☐ Under a remova	ble cover	☐ Under an open shelter☐ Under a closed shelter
During the initial inspection, check only indicate new deterioration ph			nat are present. During maintenance cycles, ction or last intervention.
STRUCTURAL DETERIORATION Tessellatum lacunae Cracks Bulges	N	☐ Depressio	(Condition Assessment Map No. 1 ons ents between mosaic layers
SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar bet	ween tesserae	☐ Stains☐ Incrustati☐ Effloresce	
PRESENCE OF BIO-DETERIOR. ☐ Micro-organisms ☐ Vegetation	ATION AGENTS		(Condition Assessment Map No. 3 or entrance holes made by and other animals
DETERIORATION OF INTERVE ☐ Deteriorated lacunae fills edging repairs ☐ Deteriorated mortar bet	veen tesserae	Deteriora Deteriora	(Condition Assessment Map No. 4 ned tesserae ted support panels ted support metal reinforcements
C	Presence of vegetatLoss of fill materialsDeteriorated separa		
DETERIORATION OF INTERVE		OSAIC Deteriorated of Damaged according Other:	ess barrier
OBSERVATIONS ON THE COND	DITION ASSESSMENT		
OBSERVATIONS ON THE CONE	OITION ASSESSMENT		

Deteriorated support panels

Deformed support panel: Modern support panel of a re-laid mosaic whose shape has changed, part of its surface being located above or below its original level.





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INSPECTION TYPE	☐ Initial inspection	on	☐ Maintenance cycle
PRESENT EXPOSURE CON	DITIONS		
☐ In open air	☐ Reburied		Under an open shelter
☐ Walked on	☐ Under a remov	able cover	Under a closed shelter
☐ Parts not excavated o	or inaccessible		
	heck the boxes of all the deteri n phenomena that have occur		that are present. During maintenance cycles pection or last intervention.
STRUCTURAL DETERIORA	TION		(Condition Assessment Map No. 1
☐ Tessellatum lacunae		☐ Depress	sions
☐ Cracks		☐ Detachi	ments between mosaic layers
☐ Bulges			
SURFACE DETERIORATION			(Condition Assessment Map No. 2
☐ Detached tesserae		☐ Stains	
Deteriorated tesserae		☐ Incrusta	
☐ Deteriorated mortar	between tesserae	☐ Efflores	cence
PRESENCE OF BIO-DETER	ORATION AGENTS		(Condition Assessment Map No. 3
☐ Micro-organisms		☐ Tunnels	or entrance holes made by
☐ Vegetation		insects	and other animals
DETERIORATION OF INTE	RVENTIONS		(Condition Assessment Map No. 4
Deteriorated lacunae	fills or		ched tesserae
edging repairs		Deterio	rated support panels
☐ Deteriorated mortar			rated support metal reinforcements
Reburial:	☐ Presence of vegeta☐ Loss of fill material		
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□ Clogged drainage	RVENTIONS AROUND THE		d cover or shelter
☐ Stabilized walls with	now dotorioration	☐ Deteriorated	
Stabilized Walls With	new deterioration	Other:	
		G Other.	
OBSERVATIONS ON THE C	ONDITION ASSESSMENT		
GENERAL CONDITION OF			
	Good	☐ Fair	☐ Bad
☐ Date recommende	ed for next inspection: _ ired)		
☐ Date recommende (No intervention requi			
☐ Date recommende (No intervention requi	ired) ed for intervention:		
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Deteriorated support metal reinforcements

Structural reinforcement of a support of a re-laid mosaic that is in poor condition.



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NSPECTION TYPE	☐ Initial inspection		☐ Maintenance cycle
PRESENT EXPOSURE CONDI	TIONS		
☐ In open air	☐ Reburied		☐ Under an open shelter
☐ Walked on	☐ Under a removab	le cover	☐ Under a closed shelter
☐ Parts not excavated or	inaccessible		
During the initial inspection, che			nat are present. During maintenance cyclection or last intervention.
STRUCTURAL DETERIORATION	ON		(Condition Assessment Map No
☐ Tessellatum lacunae		Depression	ons
☐ Cracks ☐ Bulges		☐ Detachm	ents between mosaic layers
SURFACE DETERIORATION			(Condition Assessment Map No
☐ Detached tesserae		☐ Stains	
☐ Deteriorated tesserae		☐ Incrustati	
Deteriorated mortar be	etween tesserae	☐ Effloresce	ence
PRESENCE OF BIO-DETERIO	RATION AGENTS		(Condition Assessment Map No
☐ Micro-organisms		☐ Tunnels o	r entrance holes made by
☐ Vegetation		insects ar	nd other animals
DETERIORATION OF INTERV	ENTIONS		(Condition Assessment Map No
Deteriorated lacunae fi	lls or	☐ Re-detacl	hed tesserae
Deteriorated lacunae fi edging repairs	lls or		hed tesserae ted support panels
edging repairs Deteriorated mortar be	etween tesserae	☐ Deteriora☐ Deteriora	
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edging repairs Deteriorated mortar be	etween tesserae Presence of vegetation Loss of fill materials	☐ Deteriora☐ Deteriora	ted support panels ted support metal reinforcemer
edging repairs Deteriorated mortar be Reburial:	etween tesserae Presence of vegetatio I oss of fill materials Deteriorated separat	☐ Deteriora ☐ Deteriora on ion membranes	ted support panels ted support metal reinforcemer
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Presence of vegetation and loss of fill materials

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DATA FORM NO. 3 – COI	NDITION ASSESSMENT STUDY PHASE
	MOSAIC ID//
INSPECTION TYPE 🔲 Init	ial inspection
PRESENT EXPOSURE CONDITIONS ☐ In open air ☐ Walked on ☐ Und ☐ Parts not excavated or inaccessib	der a removable cover
	of all the deterioration phenomena that are present. During maintenance cycles, hat have occurred since the last inspection or last intervention.
STRUCTURAL DETERIORATION ☐ Tessellatum lacunae ☐ Cracks ☐ Bulges	(Condition Assessment Map No. 1) ☐ Depressions ☐ Detachments between mosaic layers
SURFACE DETERIORATION ☐ Detached tesserae ☐ Deteriorated tesserae ☐ Deteriorated mortar between tes	(Condition Assessment Map No. 2) ☐ Stains ☐ Incrustations serae ☐ Efflorescence
PRESENCE OF BIO-DETERIORATION AG ☐ Micro-organisms ☐ Vegetation	ENTS (Condition Assessment Map No. 3) ☐ Tunnels or entrance holes made by insects and other animals
DETERIORATION OF INTERVENTIONS ☐ Deteriorated lacunae fills or edging repairs ☐ Deteriorated mortar between tes	**
\$ Loss of	ce of vegetation fill materials orated separation membranes
DETERIORATION OF INTERVENTIONS A ☐ Clogged drainage ☐ Stabilized walls with new deterior	☐ Deteriorated cover or shelter
OBSERVATIONS ON THE CONDITION AS	SESSMENT
GENERAL CONDITION OF THE MOSAIC Good Date recommended for next in (No intervention required) Date recommended for intervention required)	
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Deteriorated separation membranes

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DATA FORM NO. 3 – CONDITIO	ON ASSESSMENT STUDY PHASE
	MOSAIC ID///
NSPECTION TYPE	tion
PRESENT EXPOSURE CONDITIONS	
☐ In open air ☐ Reburied	☐ Under an open shelter
☐ Walked on ☐ Under a rem	ovable cover Under a closed shelter
Parts not excavated or inaccessible	
During the initial inspection, check the boxes of all the det only indicate new deterioration phenomena that have oc	terioration phenomena that are present. During maintenance cycles, curred since the last inspection or last intervention.
STRUCTURAL DETERIORATION	(Condition Assessment Map No. 1)
☐ Tessellatum lacunae	Depressions
☐ Cracks	Detachments between mosaic layers
□ Bulges	
SURFACE DETERIORATION	(Condition Assessment Map No. 2)
☐ Detached tesserae	☐ Stains
☐ Deteriorated tesserae	☐ Incrustations
☐ Deteriorated mortar between tesserae	☐ Efflorescence
PRESENCE OF BIO-DETERIORATION AGENTS	(Condition Assessment Map No. 3)
☐ Micro-organisms	☐ Tunnels or entrance holes made by
☐ Vegetation	insects and other animals
DETERIORATION OF INTERVENTIONS	(Condition Assessment Map No. 4)
☐ Deteriorated lacunae fills or	☐ Re-detached tesserae
edging repairs	☐ Deteriorated support panels
☐ Deteriorated mortar between tesserae	☐ Deteriorated support metal reinforcements
Reburial: Presence of vege	etation
☐ Loss of fill mater	ials
☐ Deteriorated sep	paration membranes
DETERIORATION OF INTERVENTIONS AROUND TH	IE MOSAIC
🙀 Clogged drainage	Deteriorated cover or shelter
Stabilized walls with new deterioration	☐ Damaged access barrier
	☐ Other:
OBSERVATIONS ON THE CONDITION ASSESSMENT	
GENERAL CONDITION OF THE MOSAIC	
☐ Good	☐ Fair ☐ Bad
☐ Date recommended for next inspection: (No intervention required)	
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Clogged drainage

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NSPECTION TYPE	☐ Initial inspection	n 🔲 Maintenance cycle	
PRESENT EXPOSURE COND	DITIONS		
In open air	☐ Reburied	☐ Under an open shelter	
⊒ Walked on	☐ Under a remova		
☐ Parts not excavated o	r inaccessible		
		oration phenomena that are present. During maintenance of the last inspection or last intervention.	cycles
STRUCTURAL DETERIORAT	TION	(Condition Assessment Map	No.
☐ Tessellatum lacunae		☐ Depressions	
☐ Cracks		☐ Detachments between mosaic layers	
☐ Bulges			
SURFACE DETERIORATION		(Condition Assessment Map	No. 2
Detached tesserae		☐ Stains	
Deteriorated tesserae		☐ Incrustations	
Deteriorated mortar b	oetween tesserae	☐ Efflorescence	
PRESENCE OF BIO-DETERIO	ORATION AGENTS	(Condition Assessment Map	No. I
☐ Micro-organisms		☐ Tunnels or entrance holes made by	
☐ Vegetation		insects and other animals	
DETERIORATION OF INTER	VENTIONS	(Condition Assessment Map	No. 4
Deteriorated lacunae	fills or	☐ Re-detached tesserae	
edging repairs		☐ Deteriorated support panels	
Deteriorated mortar b	petween tesserae	☐ Deteriorated support metal reinforcen	nent
Reburial:	☐ Presence of vegetat ☐ Loss of fill materials ☐ Deteriorated separa		
DETERIORATION OF INTER Clogged drainage Stabilized walls with n	new deterioration	NOSAIC Deteriorated cover or shelter Damaged access barrier Other:	
☐ Clogged drainage	new deterioration	☐ Deteriorated cover or shelter☐ Damaged access barrier	
☐ Clogged drainage ☐ Stabilized walls with n	new deterioration	☐ Deteriorated cover or shelter☐ Damaged access barrier	
☐ Clogged drainage ☐ Stabilized walls with n	new deterioration	☐ Deteriorated cover or shelter☐ Damaged access barrier	
Clogged drainage Stabilized walls with r	DNDITION ASSESSMENT	☐ Deteriorated cover or shelter ☐ Damaged access barrier ☐ Other:	
Clogged drainage Stabilized walls with r	DNDITION ASSESSMENT THE MOSAIC	☐ Deteriorated cover or shelter☐ Damaged access barrier	
Clogged drainage Stabilized walls with r	DNDITION ASSESSMENT THE MOSAIC Good d for next inspection:	☐ Deteriorated cover or shelter ☐ Damaged access barrier ☐ Other:	
Clogged drainage Stabilized walls with r DBSERVATIONS ON THE CO GENERAL CONDITION OF T CO Date recommender (No intervention require	DNDITION ASSESSMENT THE MOSAIC Good d for next inspection:	☐ Deteriorated cover or shelter ☐ Damaged access barrier ☐ Other:	



Stabilized walls with new deterioration

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DATA FORM NO. 3	CONDITION			STUDY PHASE
		MOSAI		
INSPECTION TYPE	☐ Initial inspection		☐ Maintenance cy	cle
PRESENT EXPOSURE CONDITIO	NS			
☐ In open air	☐ Reburied		Under an open	shelter
☐ Walked on	☐ Under a removal	ble cover	☐ Under a closed :	shelter
☐ Parts not excavated or ina	ccessible			
During the initial inspection, check the only indicate new deterioration pher				ntenance cycles,
STRUCTURAL DETERIORATION			(Condition Assessm	ent Map No. 1)
☐ Tessellatum lacunae		Depressio	ns	
☐ Cracks		☐ Detachme	ents between mosaid	layers
☐ Bulges				ŕ
SURFACE DETERIORATION			(Condition Assessme	ent Map No. 2)
☐ Detached tesserae		☐ Stains		
☐ Deteriorated tesserae		☐ Incrustation	ons	
Deteriorated mortar betw	een tesserae	☐ Effloresce	nce	
PRESENCE OF BIO-DETERIORAT	ION AGENTS		(Condition Assessme	ent Map No. 3)
☐ Micro-organisms		☐ Tunnels or	r entrance holes mad	
☐ Vegetation		insects an	d other animals	ĺ
DETERIORATION OF INTERVENT	TIONS		(Condition Assessme	ent Map No. 4)
Deteriorated lacunae fills o	or	☐ Re-detach		
edging repairs			ted support panels	
 Deteriorated mortar betw 	aan tassaraa		ted support metal re	inforcements
	Presence of vegetati		ica support metarre	inorcements
		on		
	Loss of fill materials			
Ч	Deteriorated separa	tion membranes		
DETERIORATION OF INTERVEN		* *		
☐ Clogged drainage ☐ Stabilized walls with new o		Deteriorated o		
■ Stabilized walls with new o		☐ Damaged acce	ess parrier	
		□ Other.		
OBSERVATIONS ON THE CONDI	TION ASSESSMENT			
CENTERAL CONDITION OF THE	IOS N.C.			
GENERAL CONDITION OF THE M		⊒ Fair	☐ Bad	
☐ Date recommended for				
(No intervention required)	intonyontian			
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Deteriorated cover or shelter

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DATA FORM NO. 3 -	CONDITION	ASSESSM	ENT	STUDY PHAS
		MOS	AIC ID/_	
NSPECTION TYPE	☐ Initial inspection		☐ Maintena	nce cycle
PRESENT EXPOSURE CONDITION	IS			
☐ In open air	☐ Reburied		Under an	open shelter
☐ Walked on	☐ Under a removab	ole cover	☐ Under a c	osed shelter
☐ Parts not excavated or inac	cessible			
During the initial inspection, check the only indicate new deterioration pheno				
STRUCTURAL DETERIORATION			(Condition As	sessment Map No. 1
☐ Tessellatum lacunae		Depress	ions	
☐ Cracks		Detachn	nents between r	nosaic layers
☐ Bulges				
SURFACE DETERIORATION			(Condition As	sessment Map No. 2
☐ Detached tesserae		☐ Stains		
☐ Deteriorated tesserae		☐ Incrusta	tions	
☐ Deteriorated mortar betwe	en tesserae	☐ Effloresc	ence	
PRESENCE OF BIO-DETERIORAT	ON AGENTS		(Condition As	sessment Map No. 3
☐ Micro-organisms		☐ Tunnels	or entrance hole	s made by
☐ Vegetation		insects a	nd other anima	ls
DETERIORATION OF INTERVENT	ions		(Condition As	sessment Map No. 4
Deteriorated lacunae fills o	r	☐ Re-deta	ched tesserae	
edging repairs		Deterior	ated support pa	nels
Deteriorated mortar between	en tesserae	Deterior	ated support me	etal reinforcement
Reburial:	resence of vegetation	on		
	oss of fill materials			
	Deteriorated separat	ion membrane	!S	
DETERIORATION OF INTERVENT	IONS AROUND THE MO	OSAIC		
☐ Clogged drainage			cover or shelter	
Stabilized walls with new d		XX Damaged ac	cess barrier	
		Other:		
OBSERVATIONS ON THE CONDIT	ION ASSESSMENT			
GENERAL CONDITION OF THE M		0.5.1		
☐ Good		⊒ Fair	□ Ва	d
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		MOSAIC ID	
INSPECTION TYPE	☐ Initial inspectio	n 📮	Maintenance cycle
PRESENT EXPOSURE CONI	DITIONS		
☐ In open air	☐ Reburied		Under an open shelter
☐ Walked on	☐ Under a remov	ible cover 🔲	Under a closed shelter
Parts not excavated o	r inaccessible		
	heck the boxes of all the deterion		e present. During maintenance cycles, or last intervention.
STRUCTURAL DETERIORA	TION		ondition Assessment Map No. 1)
☐ Tessellatum lacunae		Depressions	
☐ Cracks		Detachments	between mosaic layers
☐ Bulges			
SURFACE DETERIORATION			ondition Assessment Map No. 2)
☐ Detached tesserae		☐ Stains	
☐ Deteriorated tesserae		☐ Incrustations	
Deteriorated mortar l	between tesserae	☐ Efflorescence	
PRESENCE OF BIO-DETERI	ORATION AGENTS		ondition Assessment Map No. 3)
☐ Micro-organisms			rance holes made by
☐ Vegetation		insects and ot	her animals
DETERIORATION OF INTER	RVENTIONS		ondition Assessment Map No. 4)
☐ Deteriorated lacunae		☐ Re-detached t	
edging repairs		☐ Deteriorated s	
☐ Deteriorated mortar I	netween tesserae		support metal reinforcements
Reburial:	☐ Presence of vegeta		
	☐ Loss of fill materials		
	☐ Deteriorated separa		
☐ Clogged drainage	RVENTIONS AROUND THE I	Deteriorated cover	r or shelter
55	new deterioration	☐ Damaged access b	
☐ Stabilized walls with I	new deterioration		ed tootbridge
■ Stabilized walls with i		ther: Damage	<u>ed f</u> ootbridge
Stabilized walls with i			<u>ed f</u> ootbridge
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OBSERVATIONS ON THE C	ONDITION ASSESSMENT		<u>ed f</u> ootbridge
DBSERVATIONS ON THE C	ONDITION ASSESSMENT THE MOSAIC	other: Damage	
DBSERVATIONS ON THE C GENERAL CONDITION OF	ONDITION ASSESSMENT THE MOSAIC Good		<u>ed f</u> ootbridge
GENERAL CONDITION OF	ONDITION ASSESSMENT THE MOSAIC Good ed for next inspection:	other: Damage	
DBSERVATIONS ON THE C GENERAL CONDITION OF	ONDITION ASSESSMENT THE MOSAIC Good ed for next inspection:	other: Damage	



Damaged footbridge

OBSERVATIONS ON THE CONDITION ASSESSMENT
Micro-organisms are concentrated in areas of the mosaic where there is more shade. Areas of detachment are located near the surrounding walls.

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DATA FORM NO. 3	- CONDITIO	N ASSESSA	IENT		STUDY PHASE
		МО	SAIC ID		
INSPECTION TYPE	☐ Initial inspect	ion	☐ Main	tenance cyc	le
PRESENT EXPOSURE CONDITIO ☐ In open air ☐ Walked on	ONS Reburied Under a remo	vable cover		er an open s er a closed s	
☐ Parts not excavated or in	accessible				
During the initial inspection, check only indicate new deterioration pho					tenance cycles,
STRUCTURAL DETERIORATION Tessellatum lacunae	N	☐ Depres		on Assessme	nt Map No. 1)
☐ Cracks ☐ Bulges		☐ Detach	ments betwo	een mosaic	layers
surface deterioration ☐ Detached tesserae ☐ Deteriorated tesserae ☐ Deteriorated mortar betw	ween tesserae	☐ Stains☐ Incrusta☐ Efflores	ations	on Assessme	nt Map No. 2)
PRESENCE OF BIO-DETERIOR A ☐ Micro-organisms ☐ Vegetation	ATION AGENTS		(Conditions or entrance and other ar	holes made	nt Map No. 3) e by
DETERIORATION OF INTERVEN ☐ Deteriorated lacunae fills edging repairs ☐ Deteriorated mortar betw	or	☐ Deterio	(Conditional (Cond	ae rt panels	nt Map No. 4) nforcements
	Presence of veget Loss of fill materia Deteriorated sepa	als	es		
DETERIORATION OF INTERVEN ☐ Clogged drainage ☐ Stabilized walls with new		☐ Deteriorate☐ Damaged a	ccess barrier		
OBSERVATIONS ON THE COND	DITION ASSESSMENT	Other:			
GENERAL CONDITION OF THE		□ Fair	Г	□ Bad	

□ Fair □ Bad
□ Date recommended for next inspection: Within12 months
□ Date recommended for intervention: □ □ Date recommended for intervention: □ □ (Intervention required)

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☐ Deteriorated mortar		☐ Efflores		100			
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☐ Vegetation		insects	and other animals		《事》《《》	TOTAL PROPERTY.	
DETERIORATION OF INTE	RVENTIONS		(Condition Assessment Map No. 4)				
☐ Deteriorated lacuna	e fills or		ached tesserae		THE A	CALLES EN	al al
edging repairs		☐ Deterio	rated support panels	建工工工		THE PROPERTY.	
☐ Deteriorated mortar	between tesserae	☐ Deterio	rated support metal reinforcements	3 3	The state of the s		0.0
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☐ Clogged drainage			d cover or shelter				NS 5 W
☐ Stabilized walls with	new deterioration	☐ Damaged a				To the state of th	The same of
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NSPECTION TYPE	☐ Initial inspection		☐ Maintenance cycle		
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☐ Cracks		☐ Detachn	nents between mosaic layers		
☐ Bulges				Litse	
SURFACE DETERIORATION	ı		(Condition Assessment Map No. 2		And the
☐ Detached tesserae		☐ Stains			
Deteriorated tesserae	2	☐ Incrustat	ions		
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PRESENCE OF BIO-DETERI	ORATION AGENTS		(Condition Assessment Map No. 3		
☐ Micro-organisms		☐ Tunnels	or entrance holes made by		
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DETERIORATION OF INTER	RVENTIONS		(Condition Assessment Map No. 4		2
☐ Deteriorated lacunae		☐ Re-detac	:hed tesserae	第二次	A CAR
edging repairs			ated support panels		
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Clogged drainage			cover or shelter	\$ X///2	
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DATA FORM NO. 3	- CONDITION	N ASSESSM	ENT	STUDY PHASE
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INSPECTION TYPE	☐ Initial inspectio	n	☐ Maintenance o	ycle
PRESENT EXPOSURE CONDIT ☐ In open air ☐ Walked on ☐ Parts not excavated or ir	☐ Reburied☐ Under a remove	able cover	☐ Under an oper☐ Under a closed	
During the initial inspection, checons only indicate new deterioration pl				
STRUCTURAL DETERIORATIO ☐ Tessellatum lacunae ☐ Cracks ☐ Bulges	N	□ Depressi □ Detachm	(Condition Assessr ons nents between mosa	
surface Deterioration Detached tesserae Deteriorated tesserae Deteriorated mortar bet	ween tesserae	☐ Stains☐ Incrustat☐ Effloresc		nent Map No. 2
PRESENCE OF BIO-DETERIOR ☐ Micro-organisms ☐ Vegetation	ATION AGENTS		(Condition Assessnor entrance holes mand other animals	
	s or	☐ Deteriora ☐ Deteriora tion	(Condition Assessa thed tesserae ated support panels ated support metal r	
DETERIORATION OF INTERVE ☐ Clogged drainage ☐ Stabilized walls with nev	v deterioration			
OBSERVATIONS ON THE CON				
GENERAL CONDITION OF THE Go Date recommended f (No intervention required Date recommended f (Intervention required)	od or next inspection:	□ Fair	□ Bad	

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During the initial inspection, checonly indicate new deterioration p				
STRUCTURAL DETERIORATIO ☐ Tessellatum lacunae ☐ Cracks ☐ Bulges		☐ Depressi	(Condition Assess	ment Map No. 1)
SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar be	tween tesserae	☐ Stains ☐ Incrustat ☐ Effloresc		ment Map No. 2)
PRESENCE OF BIO-DETERIOF ☐ Micro-organisms ☐ Vegetation	ATION AGENTS		(Condition Assess or entrance holes m and other animals	
	s or	☐ Deteriora ☐ Deteriora ion	(Condition Assess ched tesserae ated support panels ated support metal	5
DETERIORATION OF INTERVE ☐ Clogged drainage ☐ Stabilized walls with nev				
OBSERVATIONS ON THE CON	DITION ASSESSMENT			
GENERAL CONDITION OF THE Go Date recommended (No intervention required	od for next inspection:)	□ Fair	☐ Bad	
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	STRUCTURAL DETERIORATION			
E		MOSAIC ID	/	/_
	Tessellatum lacunae			
~	Cracks			
???	Bulges			
.	Depressions			
	Detachments between mosaic layers			

DATE

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LEGEND - CONDITION ASSESSMENT MAP NO. 1

DATA FORIVING	D. 3 – CONDITIO	N ASSESSMENT STUDY PHAS
		MOSAIC ID///////
INSPECTION TYPE	☐ Initial inspection	on
PRESENT EXPOSURE CONI ☐ In open air ☐ Walked on ☐ Parts not excavated o	☐ Reburied☐ Under a remov	☐ Under an open shelter vable cover ☐ Under a closed shelter
		ioration phenomena that are present. During maintenance cycles tred since the last inspection or last intervention.
STRUCTURAL DETERIORA Tessellatum lacunae Cracks Bulges	TION	(Condition Assessment Map No. ☐ Depressions ☐ Detachments between mosaic layers
SURFACE DETERIORATION Detached tesserae Deteriorated tesserae Deteriorated mortar	2	(Condition Assessment Map No. 2 ☐ Stains ☐ Incrustations ☐ Efflorescence
PRESENCE OF BIO-DETER ☐ Micro-organisms ☐ Vegetation	IORATION AGENTS	(Condition Assessment Map No ☐ Tunnels or entrance holes made by insects and other animals
DETERIORATION OF INTEI ☐ Deteriorated lacunae edging repairs ☐ Deteriorated mortar Reburial:	fills or	ls
DETERIORATION OF INTEL Clogged drainage Stabilized walls with		MOSAIC ☐ Deteriorated cover or shelter ☐ Damaged access barrier ☐ Other:
OBSERVATIONS ON THE C	ONDITION ASSESSMENT	
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••••	Detached tesserae
	Deteriorated tesserae
	Deteriorated mortar between tesserae
	Stains
	Incrustations
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LEGEND – CONDITION ASSESSMENT MAP NO. 2
SURFACE DETERIORATION

MOSAIC ID _____/___/____

DATA FORM NO.	B – CONDITION	I ASSESSM	ENT STUI	DY PHASE
		MOSA	AIC ID//	
INSPECTION TYPE	☐ Initial inspection	n	☐ Maintenance cycle	
PRESENT EXPOSURE CONDIT ☐ In open air ☐ Walked on ☐ Parts not excavated or i	☐ Reburied☐ Under a remova	able cover	☐ Under an open shelt☐ Under a closed shelt☐	
During the initial inspection, checonly indicate new deterioration p			hat are present. During maintena ection or last intervention.	nce cycles,
STRUCTURAL DETERIORATIO ☐ Tessellatum lacunae ☐ Cracks ☐ Bulges	ON.	☐ Depression ☐ Detachm	(Condition Assessment Mons ons nents between mosaic laye	
surface deterioration Detached tesserae Deteriorated tesserae Deteriorated mortar be	tween tesserae	☐ Stains ☐ Incrustat ☐ Effloresco		ap No. 2)
PRESENCE OF BIO-DETERIOR ☐ Micro-organisms ☐ Vegetation	RATION AGENTS		(Condition Assessment Mor entrance holes made by nd other animals	ap No. 3)
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DETERIORATION OF INTERVI ☐ Clogged drainage ☐ Stabilized walls with ne				
OBSERVATIONS ON THE CON	DITION ASSESSMENT			
GENERAL CONDITION OF TH Go Date recommended (No intervention required Date recommended (Intervention required)	od for next inspection:)	□ Fair	□ Bad	

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	MOSAIC ID/_
	Micro-organisms
×××	Vegetation
	Tunnels or entrance holes made by insects and other animals

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	SSMENT STUDY PHASE
	MOSAIC ID////
INSPECTION TYPE Initial inspection	☐ Maintenance cycle
PRESENT EXPOSURE CONDITIONS	
☐ In open air ☐ Reburied	Under an open shelter
☐ Walked on ☐ Under a removable cove	r Under a closed shelter
☐ Parts not excavated or inaccessible	
During the initial inspection, check the boxes of all the deterioration phe only indicate new deterioration phenomena that have occurred since the	
STRUCTURAL DETERIORATION	(Condition Assessment Map No. 1
☐ Tessellatum lacunae ☐ ☐) epressions
☐ Cracks	Detachments between mosaic layers
☐ Bulges	
SURFACE DETERIORATION	(Condition Assessment Map No. 2,
☐ Detached tesserae ☐ S	tains
☐ Deteriorated tesserae ☐ II	ncrustations
☐ Deteriorated mortar between tesserae ☐ E	fflorescence
PRESENCE OF BIO-DETERIORATION AGENTS	(Condition Assessment Map No. 3,
☐ Micro-organisms ☐ T	unnels or entrance holes made by
☐ Vegetation in	nsects and other animals
	le-detached tesserae
5 5 .	Deteriorated support panels Deteriorated support metal reinforcements
5 5 .	Deteriorated support metal reinforcements
☐ Deteriorated mortar between tesserae ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Deteriorated support metal reinforcements
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□ Deteriorated mortar between tesserae Reburial: □ Presence of vegetation □ Loss of fill materials □ Deteriorated separation me DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC □ Clogged drainage □ Deteriorated	Deteriorated support metal reinforcements
□ Deteriorated mortar between tesserae Reburial: □ Presence of vegetation □ Loss of fill materials □ Deteriorated separation me DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC □ Clogged drainage □ Deterioration □ Dama	Deteriorated support metal reinforcements mbranes riorated cover or shelter
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□ Deteriorated mortar between tesserae Reburial: □ Presence of vegetation □ Loss of fill materials □ Deteriorated separation me DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC □ Clogged drainage □ Deterioration □ Stabilized walls with new deterioration □ Othe	Deteriorated support metal reinforcements mbranes riorated cover or shelter aged access barrier
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□ Deteriorated mortar between tesserae Reburial: □ Presence of vegetation □ Loss of fill materials □ Deteriorated separation me DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC □ Clogged drainage □ Deterioration □ Dama □ Othe OBSERVATIONS ON THE CONDITION ASSESSMENT GENERAL CONDITION OF THE MOSAIC	neteriorated support metal reinforcements mbranes riorated cover or shelter aged access barrier r:
□ Deteriorated mortar between tesserae Reburial: □ Presence of vegetation □ Loss of fill materials □ Deteriorated separation me DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC □ Clogged drainage □ Deterioration □ Dama □ Othe OBSERVATIONS ON THE CONDITION ASSESSMENT GENERAL CONDITION OF THE MOSAIC □ Good □ Fair □ Date recommended for next inspection: □ (No intervention required)	neteriorated support metal reinforcements mbranes riorated cover or shelter aged access barrier r:
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	MOSAIC ID//
	Deteriorated lacunae fills or edging repairs
	Deteriorated mortar between tesserae
••••	Re-detached tesserae or detached tesserae of a re-laid mosaic
	Deformed mosaic support panels
••••	Bulging areas in support panels
	Visible deterioration of metal reinforcements in support panels
	Detachment between tessellatum and support panels
~	Cracks in mosaic support panels

LEGEND – CONDITION ASSESSMENT MAP NO. 4

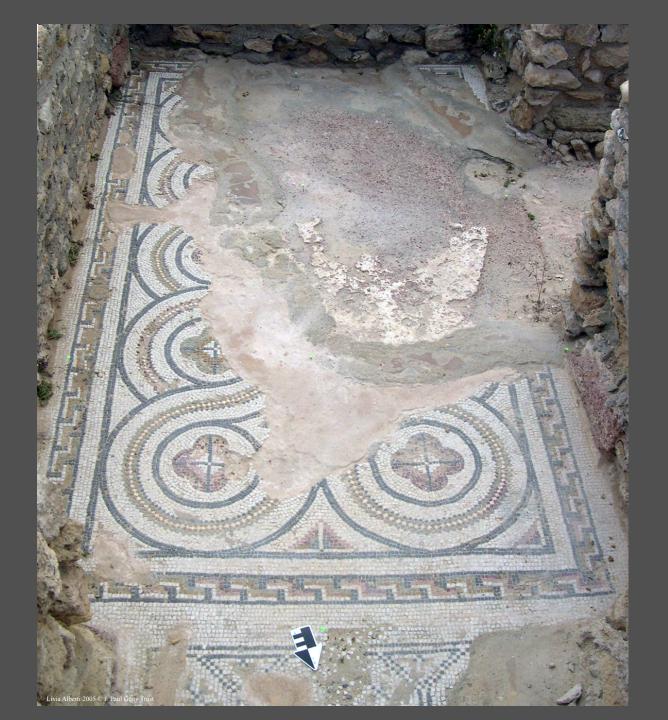
DETERIORATION OF INTERVENTIONS

PREPARED BY DATE

CASE STUDY

Hergla, Tunisia

House "of the two peristyles" ID: HE/H2P/25

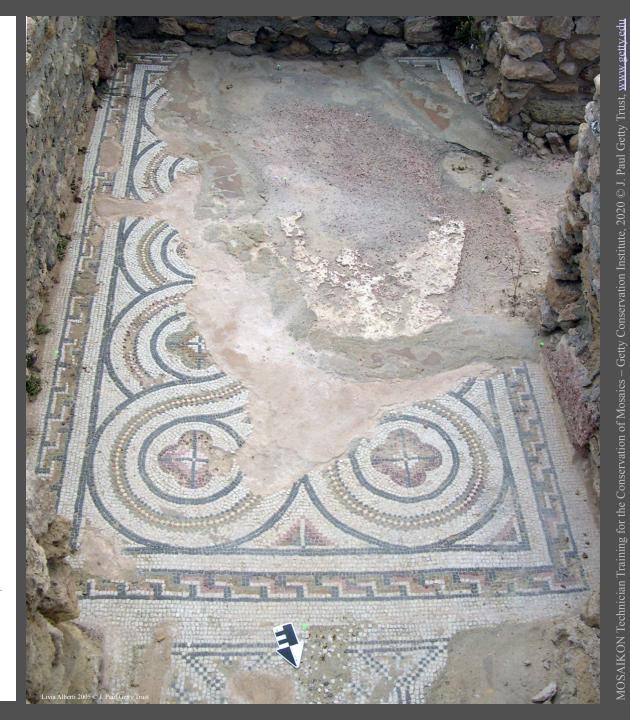


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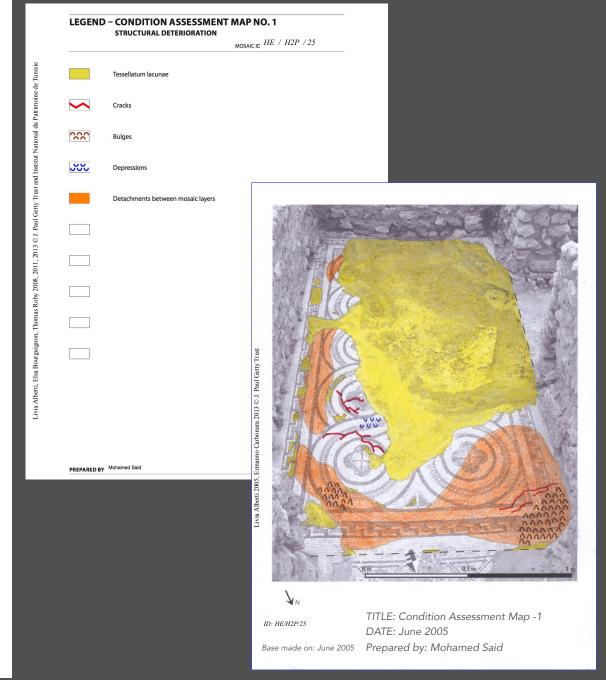
DATA FORM NO.	3 - CONDITION	ASSESSN	MENT	STUDY PHASE
		МО	SAIC ID _ HE / H2P /	25 /
NSPECTION TYPE	☑ Initial inspection	1	☐ Maintenanc	e cycle
RESENT EXPOSURE COND	ITIONS			
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Walked on	☐ Under a remova	ble cover	Under a clos	
Parts not excavated or				ou sireitei
	eck the boxes of all the deterior phenomena that have occurre			
TRUCTURAL DETERIORAT	ION		(Condition Asse	ssment Map No. 1)
Tessellatum lacunae		Depres	sions	
2 Cracks		☑ Detach	ments between mo	saic lavers
2 Bulges				
URFACE DETERIORATION			(Condition Asse	ssment Map No. 2)
Detached tesserae		Stains		
Deteriorated tesserae		☐ Incrusta	ations	
Deteriorated mortar b	etween tesserae	Efflores	cence	
RESENCE OF BIO-DETERIO	DRATION AGENTS		(Condition Asse	ssment Map No. 3)
Micro-organisms		☑ Tunnels	or entrance holes	made by
Vegetation		insects	and other animals	
ETERIORATION OF INTER	VENTIONS		(Condition Asse	ssment Map No. 4)
Deteriorated lacunae f	ills or	□ Re-deta	ached tesserae	
edging repairs		Deterio	rated support pane	els
Deteriorated mortar b	etween tesserae	Deterio	rated support meta	al reinforcements
Reburial:	☐ Presence of vegetat	ion		
	☐ Loss of fill materials			
	☐ Deteriorated separa	ition membran	ies	
ETERIORATION OF INTER	VENTIONS AROUND THE M	IOSAIC		
Clogged drainage		■ Deteriorate	d cover or shelter	
Stabilized walls with new deterioration		☐ Damaged a	ccess barrier	
		Other:	7/12/03/2010 12:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 14:00 1	
BSERVATIONS ON THE CO	NDITION ASSESSMENT			
licro-organisms are concentra	ted in areas of the mosaic whe	ere there is more sh	nade.	
Areas of detachment are locate	d near the surrounding walls			
ENERAL CONDITION OF T	HE MOSAIC			
□G	ood	☑ Fair	☐ Bad	
☐ Date recommended (No intervention require	ed)			
Date recommender	for intervention: Within	6 months		
(Intervention required)	a ioi ilitei veiltioli.			
(intervention required)				

DATE June 2005



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DATA FORM NO	.3 - CONDITIO	ON ASSESS	MENT	STUDY PHASE
		М	OSAIC ID _ <i>HE / H2P / 25</i>	/
INSPECTION TYPE	Initial inspec	tion	☐ Maintenance	cycle
PRESENT EXPOSURE COND	DITIONS			
☑ In open air	Reburied		Under an ope	n shelter
☑ Walked on	Under a reme	ovable cover	Under a close	d shelter
Parts not excavated o	r inaccessible			
During the initial inspection, che only indicate new deterioration				
STRUCTURAL DETERIORAT	TION		(Condition Assess	ment Map No. 1
☑ Tessellatum lacunae		☑ Depre		
☑ Cracks		☑ Detac	hments between mosa	aic layers
☑ Bulges				•
SURFACE DETERIORATION			(Condition Assessi	ment Map No. 2
☑ Detached tesserae		☐ Stains		
☑ Deteriorated tesserae		☐ Incrus	tations	
☑ Deteriorated mortar b	oetween tesserae	☑ Efflore	escence	
PRESENCE OF BIO-DETERIO	ODATION AGENTS		(Condition Assessi	ment Man No. 3
_	ORATION AGENTS	Ø Tunno		The Contract of the Contract o
Micro-organisms		Tunnels or entrance holes made by insects and other animals		
☑ Vegetation		insect	s and other animals	
DETERIORATION OF INTER		_	(Condition Assessi	ment Map No. 4
Deteriorated lacunae	fills or	Re-detached tesserae		
edging repairs		Deteriorated support panels		
Deteriorated mortar b	oetween tesserae	☐ Deteri	orated support metal	reinforcements
Reburial:	☐ Presence of vege	etation		
	Loss of fill mater	ials		
	☐ Deteriorated sep	paration membra	nes	
DETERIORATION OF INTER	VENTIONS AROUND TH	IE MOSAIC		
☐ Clogged drainage		☐ Deteriorated cover or shelter		
☐ Stabilized walls with new deterioration		☐ Damaged access barrier		
		Other:		
OBSERVATIONS ON THE CO	ONDITION ASSESSMENT	r		
Micro-organisms are concentra			shade.	
Areas of detachment are locate	ed near the surrounding wa	lls		
GENERAL CONDITION OF T	THE MOSAIC			
	Good	☑ Fair	☐ Bad	
☐ Date recommende (No intervention requir			_	
Date recommender	d for intervention: Wi	thin 6 months		
PREPARED BY Mohanmed S	Said		DATE June 2005	



DATA FORM NO	D. 3 – CONDITIO	N ASSESSMENT	STUDY PHASE	
		MOSAIC ID	HE / H2P / 25 /	
INSPECTION TYPE	Initial inspect	ion 💷 1	Maintenance cycle	
PRESENT EXPOSURE CON	DITIONS			
☑ In open air	Reburied		Jnder an open shelter	
☑ Walked on	☐ Under a remo	ovable cover 🔲 t	Inder a closed shelter	
Parts not excavated	or inaccessible			
		erioration phenomena that are p urred since the last inspection o	oresent. During maintenance cycles, r last intervention.	
STRUCTURAL DETERIORA	TION	(Con	ndition Assessment Map No. 1	
☑ Tessellatum lacunae		Depressions		
☑ Cracks		Detachments b	etween mosaic layers	
☑ Bulges				
SURFACE DETERIORATION	N	(Cor	ndition Assessment Map No. 2,	
Detached tesserae		☐ Stains		
Deteriorated tessera	e	□ Incrustations		
☑ Deteriorated mortar	between tesserae	Efflorescence		
PRESENCE OF BIO-DETER	IORATION AGENTS	(Cor	ndition Assessment Map No. 3	
Micro-organisms		☑ Tunnels or entre	ance holes made by	
☑ Vegetation		insects and oth	er animals	
DETERIORATION OF INTE	RVENTIONS	(Cor	ndition Assessment Map No. 4	
Deteriorated lacunae fills or		☐ Re-detached tesserae		
edging repairs		Deteriorated support panels		
☐ Deteriorated mortar between tesserae		□ Deteriorated su	pport metal reinforcements	
Reburial:	☐ Presence of vege	tation		
	Loss of fill materia	als		
	☐ Deteriorated sepa	aration membranes		
DETERIORATION OF INTE	RVENTIONS AROUND TH	E MOSAIC		
☐ Clogged drainage		☐ Deteriorated cover	or shelter	
☐ Stabilized walls with new deterioration		☐ Damaged access ba	arrier	
		Other:		
OBSERVATIONS ON THE C	ONDITION ASSESSMENT			
Micro-organisms are concent				
Areas of detachment are local	ated near the surrounding wall	Is		
GENERAL CONDITION OF	THE MOSAIC			
The second secon	Good	☑ Fair	☐ Bad	
☐ Date recommende (No intervention requ				
Date recommende	ed for intervention: With	nin 6 months		

LEGEND - CONDITION ASSESSMENT MAP NO. 2 SURFACE DETERIORATION

MOSAICID HE / H2P / 25

••••• Detached tesserae //// Deteriorated tesserae Deteriorated mortar between tesserae Stains

Incrustations

Efflorescence

PREPARED BY Mohamed Said





ID: HE/H2P/25

Base made on: June 2005

TITLE: Condition Assessment Map -2

DATE: June 2005

Prepared by: Mohamed Said

		MC	DSAIC ID _ <i>HE / H2P / 25 /</i>	
INSPECTION TYPE	☑ Initial inspect	tion	☐ Maintenance cycle	
PRESENT EXPOSURE COND	ITIONS			
☑ In open air	□ Reburied		Under an open shelter	
☑ Walked on	☐ Under a remo	ovable cover	☐ Under a closed shelter	
☐ Parts not excavated or				
During the initial inspection, ch only indicate new deterioration		•	a that are present. During maintenance cycles, spection or last intervention.	
STRUCTURAL DETERIORAT	ION		(Condition Assessment Map No. 1	
✓ Tessellatum lacunae		Depres	ssions	
✓ Cracks		Detach	ments between mosaic layers	
☑ Bulges				
SURFACE DETERIORATION			(Condition Assessment Map No. 2	
Detached tesserae		Stains		
Deteriorated tesserae		☐ Incrust	ations	
☑ Deteriorated mortar b	etween tesserae	☑ Efflores	scence	
PRESENCE OF BIO-DETERIO	ORATION AGENTS		(Condition Assessment Map No. 3	
☑ Micro-organisms		☑ Tunnel	s or entrance holes made by	
✓ Vegetation		insects and other animals		
DETERIORATION OF INTER	VENTIONS		(Condition Assessment Map No. 4	
Deteriorated lacunae	fills or	□ Re-det	ached tesserae	
edging repairs		Deteriorated support panels		
■ Deteriorated mortar b	etween tesserae	Deteriorated support metal reinforcements		
Reburial:	☐ Presence of vege	etation		
	Loss of fill materi	als		
	☐ Deteriorated sep	aration membrar	nes	
DETERIORATION OF INTER	VENTIONS AROUND TH	E MOSAIC		
Clogged drainage		Deteriorate	ed cover or shelter	
☐ Stabilized walls with new deterioration		□ Damaged access barrier		
		Other:		
OBSERVATIONS ON THE CO	ONDITION ASSESSMENT	r		
Micro-organisms are concentra	ated in areas of the mosaic	where there is more s	hade.	
Areas of detachment are locate	ed near the surrounding wa	lls		
GENERAL CONDITION OF T				
	iood	☑ Fair	□ Bad	
	iood d for next inspection: ed)		□ Bad	
☐ Date recommended	iood d for next inspection: ed) d for intervention: Wit		□ Bad	

DATA FORM NO. 3 - CONDITION ASSESSMENT

LEGEND - CONDITION ASSESSMENT MAP NO. 3 PRESENCE OF BIO-DETERIORATION AGENTS

HE / H2P / 25 MOSAIC ID

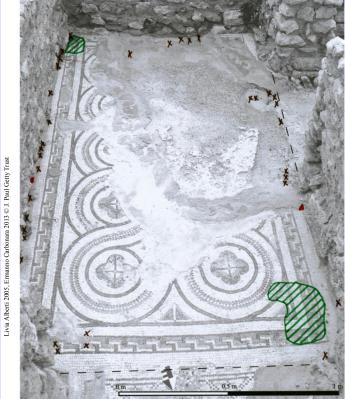
Micro-organisms

××× Vegetation

PREPARED BY Mohamed Said

STUDY PHASE

Tunnels or entrance holes made by insects and other animals



ID: HE/H2P/25

TITLE: Condition Assessment Map -3 DATE: June 2005

Prepared by: Mohamed Said Base made on: June 2005

DATA FORM NO.	3-CONDITIO	N ASSESSA	TENT STUDY PHA	
		мо	OSAIC ID _ HE / H2P / 25 /	
INSPECTION TYPE	Initial inspect	ion	☐ Maintenance cycle	
PRESENT EXPOSURE COND	ITIONS			
In open air	Reburied		Under an open shelter	
Walked on	Under a remo	ovable cover	Under a closed shelter	
Parts not excavated or	rinaccessible			
During the initial inspection, ch only indicate new deterioration			a that are present. During maintenance cycl spection or last intervention.	
STRUCTURAL DETERIORAT	ION		(Condition Assessment Map No	
Tessellatum lacunae		Depres	sions	
☑ Cracks		Detach	ments between mosaic layers	
☑ Bulges				
SURFACE DETERIORATION		_	(Condition Assessment Map No	
☑ Detached tesserae		☐ Stains		
☑ Deteriorated tesserae		☐ Incrusta		
☑ Deteriorated mortar between tesserae		☑ Efflores	scence	
PRESENCE OF BIO-DETERIO	DRATION AGENTS		(Condition Assessment Map No	
Micro-organisms			s or entrance holes made by	
Vegetation		insects	and other animals	
DETERIORATION OF INTER			(Condition Assessment Map No	
Deteriorated lacunae f	fills or		ached tesserae	
edging repairs		Deteriorated support panels		
Deteriorated mortar b			orated support metal reinforcemer	
Reburial:	Presence of vege			
	Loss of fill materia	als		
	☐ Deteriorated sep	aration membran	nes	
DETERIORATION OF INTER	VENTIONS AROUND TH	E MOSAIC		
Clogged drainage		Deteriorate	d cover or shelter	
☐ Stabilized walls with new deterioration		Damaged access barrier		
		☐ Other:		
OBSERVATIONS ON THE CO	NDITION ASSESSMENT			
Micro-organisms are concentra	ted in areas of the mosaic	where there is more sh	nade.	
Areas of detachment are locate	ed near the surrounding wal	Is		
GENERAL CONDITION OF T	HE MOSAIC			
	iood	☑ Fair	☐ Bad	
D Data recommende	d for next inspection:			
	ed)			
(No intervention require	^{ed)} d for intervention: ^{Witl}	hin 6 months		
	^{ed)} d for intervention: With	hin 6 months		

Deteriorated lacunae fills or edging repairs Deteriorated mortar between tesserae Re-detached tesserae or detached tesserae of a re-laid mosaic Deformed mosaic support panels Wisible deterioration of metal reinforcements Detachment between tessellatum and suppo Cracks in mosaic support panels

Livia Alberti 2005, Ermanno Carbonara 2013 © J. Paul Getty Trast

PREPARED BY Mohamed Said

AN

ID: HE/H2P/25

TITLE: Condition Assessment Map -4

DATE: June 2005

Base made on: June 2005

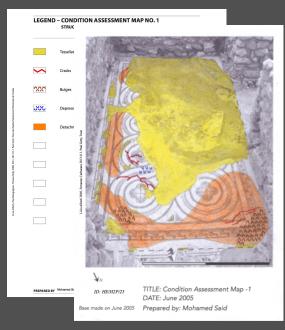
Prepared by: Mohamed Said

☑ Initial inspection ☐ Maintenance cycle INSPECTION TYPE PRESENT EXPOSURE CONDITIONS ☑ In open air ☐ Reburied ☐ Under an open shelter ☑ Walked on ☐ Under a removable cover ☐ Under a closed shelter ☐ Parts not excavated or inaccessible During the initial inspection, check the boxes of all the deterioration phenomena that are present. During maintenance cycles, only indicate new deterioration phenomena that have occurred since the last inspection or last intervention. STRUCTURAL DETERIORATION (Condition Assessment Map No. 1) ☑ Tessellatum lacunae Depressions ☑ Cracks ☑ Detachments between mosaic layers **☑** Bulges SURFACE DETERIORATION (Condition Assessment Map No. 2) ☑ Detached tesserae ☐ Stains ☑ Deteriorated tesserae ☐ Incrustations ☑ Deteriorated mortar between tesserae ☑ Efflorescence PRESENCE OF BIO-DETERIORATION AGENTS (Condition Assessment Map No. 3) ☑ Micro-organisms ☑ Tunnels or entrance holes made by Vegetation insects and other animals **DETERIORATION OF INTERVENTIONS** (Condition Assessment Map No. 4) ☑ Deteriorated lacunae fills or ☐ Re-detached tesserae ☐ Deteriorated support panels edging repairs ☐ Deteriorated mortar between tesserae ☐ Deteriorated support metal reinforcements ☐ Presence of vegetation Reburial: ☐ Loss of fill materials ☐ Deteriorated separation membranes **DETERIORATION OF INTERVENTIONS AROUND THE MOSAIC** ☐ Clogged drainage ☐ Deteriorated cover or shelter ☐ Stabilized walls with new deterioration ☐ Damaged access barrier Other:_ **OBSERVATIONS ON THE CONDITION ASSESSMENT** Micro-organisms are concentrated in areas of the mosaic where there is more shade. Areas of detachment are located near the surrounding walls GENERAL CONDITION OF THE MOSAIC ☐ Good ☑ Fair ☐ Bad ☐ Date recommended for next inspection: (No intervention required) ■ Date recommended for intervention:

(Intervention required)

PREPARED BY Mohanmed Said

DATA FORM NO. 3 - CONDITION ASSESSMENT



STUDY PHASE

MOSAIC ID _ HE / H2P / 25 /

DATE June 2005







LEGEND - CONDITION ASSESSMENT MAP NO. 4

Getty













MOSAIKON is a partnership of four institutions: the Getty Conservation Institute, the Getty Foundation, ICCROM, and ICCM. The aims of the project are to strengthen the network of professionals concerned with the conservation, restoration, maintenance, and management of mosaic heritage in the southern and eastern Mediterranean region; provide training to a variety of individuals involved in mosaics conservation and, more generally, with the management of archaeological sites and museums with mosaics; work with national and international bodies to provide a more favorable legislative, regulatory, and economic environment for the conservation of mosaics in the Mediterranean; and promote the dissemination and exchange of information.

