TECHNICIAN TRAINING FOR THE CONSERVATION OF MOSAICS

PART 1
THE CONSERVATION OF IN SITU MOSAICS

Water drainage interventions

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Main Cause of Water Pooling

Atmospheric precipitation: rain, snow, etc.

in relation to mosaic surface depressions and lack of shelter.
Mechanisms and deterioration phenomena linked to water pooling

Salt crystallization due to wetting/drying cycles
Efflorescences/incrustations
Damaged tesserae and mortar

Thermal and hydric contraction/dilatation cycles
Detachments/Bulges
Cracks/Lacunae

Mechanical stress due to freeze/thaw cycles
Damaged tesserae and mortar

Mechanical stress due to vegetation growth
Detachments/Bulges
Cracks/Lacunae
Deterioration linked to water pooling
Deterioration phenomena linked to water pooling

- Efflorescences/incrustations
- Damaged tesserae
- Cracks/lacunae
- Detachments
Water pooling on site
Documentation of water pooling
Water pooling map

Maison de la Chasse, Bulla Regia, Tunisia
Water pooling map
Site map with areas of water pooling

Areas of water pooling

Bulla Regia, Tunisia

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Types of interventions

Prevention/Protection
Temporary or long-term shelter
Open or closed shelter

Water drainage systems
Drainage pit
Water channel
Re-use of ancient drainage system

Maintenance
Manual removal of water
Prevention/Protection

Long-term open shelter

Rain water chain
Temporary shelter
Water drainage systems

Drainage pit
Water drainage systems

Water channel
Water drainage systems

Re-use of ancient drainage
Maintenance

Manual removal of rain water
Example of water drainage pit

Baths of Caracalla, Dougga, Tunisia
Water pooling map
Excavation of the pit
Infilling of lacuna with slope toward the drainage pit
Filling the pit with drainage materials

1 – large stones

2 – separation membrane

3 – gravel
Completed drainage pit
**Intervention documentation**

1 – large stones

2 – separation membrane

3 – gravel

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**DATA FORM NO. 5 - CURRENT INTERVENTIONS**

<table>
<thead>
<tr>
<th>MOSAIC ID</th>
<th>INTERVENTION PHASE</th>
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<tbody>
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<td>Initial intervention</td>
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**INTERVENTION TYPE**

- Vegetation removal
- Cleaning of the entire surface
- Cleaning of part of the surface
- Removal of modern repair mortars
- Resetting tesserae
- Filling interstices between tesserae
- Grouting voids between preparatory layers
- Infilling lacunae and/or edging repairs
- Removal and resetting tesserae with facing
- Removal of metal reinforcements in support panels
- Treatment of metal reinforcements in support panels

**TREATMENTS CARRIED OUT ON THE MOSAIC**

- Drainage: Drainage pit layers: 1-large stones; 2-separation membrane; 3-gravel
- Reburial: (Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)

**INTERVENTIONS CARRIED OUT AROUND THE MOSAIC**

- Wall stabilization
  
  Notes:

- Other: 
  
  Notes:

** NAMES OF THE TECHNICIANS WHO CARRIED OUT THE WORK**

PREPARED BY

DATE
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.