



## Mark Milevski

Materials Testing Specialist – Heritage Services

A geomaterials scientist with a special interest in heritage conservation; education background in geology, geophysics and earth sciences; a skilled materials testing specialist with experience across a range of prominent architectural projects.

### CONTACT

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### ABOUT

Mark Milevski is a geomaterials scientist with an interest in heritage and conservation. He has a Bachelor of Science (Geology, Geophysics and Applied Geology) from the University of Adelaide and a Certificate II in Construction.

Mark has been with Stone Initiatives since 2014, and enjoys being a part of “breathing new life” into heritage buildings so that they can have a second chance. Outside of work, you’ll find Mark embracing the outdoors through camping, surfing or hiking.

### RELEVANT INDUSTRY EXPERIENCE

#### 2014 – Present

*Stone Initiatives & Materials Testing Group*

Materials Testing Specialist – Heritage Services

Responsibilities include:

- Performing physical material testing to ISO/IEC 17025 quality requirements.
- Specialised testing in heritage projects.
- Providing guidance to laboratory personnel in areas of special interest.
- Specialised testing across a range of facade/engineering projects.
- Project management, including task delegation, material testing and comprehensive reporting.
- Consulting with clients and providing detailed explanation of test results.

### EDUCATION AND TRAINING

#### 2012 – 2015

*The University of Adelaide*

Bachelor of Science in Geology, Geophysics and Applied Geology – electives taken in environmental and earth sciences

#### 2015

*Access Training Centre*

Certificate II in construction (White Card)

### LANGUAGES

English (first language)

Russian (fluent)

### PUBLISHED WORK

M. Milevski, *Rising damp and salt attack: Effects and solutions*, Stone Initiatives website, March 2023.

M. Milevski, *How has heritage conservation evolved?*, Stone Initiatives website, October 2023.

### CONSULTANCY HIGHLIGHTS

#### Currency Creek Railway Bridge

(Currency Creek SA, 2023)

Project description: Heritage restoration and maintenance works on the historic SteamRanger Railway line.

Responsibilities: Stone identification and replacement recommendations, mortar compositional analysis, cleaning methodology development, internal pier structure investigation and heritage consulting.

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## **Adelaide Parliament House – Cleaning and Restoration (Adelaide, SA, 2023)**

Project description: Facade cleaning and heritage restoration works.

Responsibilities: Mortar compositional analysis, cleaning methodology development, stone repair recommendations and heritage consulting.

## **Cape Moreton Lighthouse – Heritage Works**

(Moreton Island, QLD, 2023)

Project description: Restoration and maintenance works of a historic lighthouse.

Responsibilities: Moisture and salt surveys, mortar compositional analysis, stone repair/replacement recommendations and heritage consulting.



## **Cape Northumberland Lighthouse – Heritage Works (Port MacDonnell, SA, 2023)**

Project description: Restoration and maintenance works of a historic lighthouse.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stone repair/replacement recommendations and heritage consulting.

## **Althorpe Island Lighthouse – Heritage Works (Althorpe Island, SA, 2023)**

Project description: Restoration and maintenance works of a historic lighthouse.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stone replacement recommendations and heritage consulting.

## **Old Stock Exchange Building (Science Exchange) – Adelaide South Australia (Adelaide, SA, 2023)**

Project description: Investigation into basement damp issues in preparation for restoration.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stormwater discharge mapping and heritage consulting.

## **Fremantle Prison – Significant Prison Cell Murals (Fremantle WA, 2023)**

Project description: Conservation of significant murals within Fremantle Prison.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis and heritage consulting.

## **Angas Flour Mill – Strathalbyn South Australia (Strathalbyn SA, 2022)**

Project description: Restoration and redevelopment of a historic flour mill.

Responsibilities: Moisture survey, salt survey, mortar compositional analysis, stone replacement recommendations and heritage consulting.



## **West Terrace Cemetery – Significant Heritage Monuments (Adelaide, SA, 2022)**

Project description: Cleaning of monuments with significant heritage value.

Responsibilities: Cleaning method trials to develop a suitable cleaning method for sensitive features.

## **St James Church (Brighton, Vic, 2020–2022)**

Project description: Restoration of heritage Catholic church.

Responsibilities: Mortar compositional analysis and heritage consulting.

## **Port Pirie Former Railway Station, Customs House and Watch House (Port Pirie, SA, 2022)**

Project description: Salt damp survey.

Responsibilities: Moisture survey of external walls and heritage consulting.

## **Glenelg Town Hall (Glenelg, SA, 2021–2022)**

Project description: Restoration of the hall.

Responsibilities: Investigation into recent repair failure, moisture and condition survey, and heritage consulting.

## **Moonta Mines National Heritage Project**

(Moonta, SA, 2021–2022)

Project description: Restoration of heritage copper mine site.

Responsibilities: Mortar compositional analysis and heritage consulting.



## **Osborne Naval Shipbuilding Precinct**

(Port Adelaide, SA, 2018–2021)

Project description: Construction site for new naval shipbuilding precinct.

Responsibilities: Slip resistance testing of concrete surface finishes.

## **King William Street ramp; North Terrace Slate**

### **Pedestrian Paving (Adelaide, SA, 2020)**

Project description: Installed Mintaro slate pavers along pedestrian walkways of King William Street and North Terrace in the Adelaide CBD.

Responsibilities: Overseeing condition survey of installed pavers.

## **Shrine of Remembrance (Melbourne, Vic, 2020)**

Project description: Restoration and maintenance.

Responsibilities: Mortar compositional analysis and heritage consulting.

## **South Australian Maritime Museum**

(Port Adelaide, SA, 2020)

Project description: Investigation into damp issues in wooden floorboards.

Responsibilities: Overseeing investigation and survey of damp in timber flooring.

## **Adelaide Supreme Court (Adelaide, SA, 2020)**

Project description: Cleaning trials on sensitive sandstone ashlar.

Responsibilities: Overseeing cleaning trials and investigating effect on masonry.

## **Smyth Chapel (Adelaide, SA, 2018–2020)**

Project description: Restoration of the Smyth Chapel located in the West Terrace Cemetery.

Responsibilities: Assisting in the analysis of all masonry elements (stone, paving and mortar), surveying the masonry walls for moisture and salts. Investigation into replacement stone for gargoyle reproduction.



## **King William Street and North Terrace**

### **Re-grouting Project (Adelaide, SA, 2020)**

Project description: Survey and record discontinuities in the condition of the existing Mintaro Slate paving.

Responsibilities: Assisting in the development and execution of a survey of each individual Mintaro Slate paver on King William Street and North Terrace (approx. 8,500 square meters of paving).

## **Gawler Place Upgrade (Adelaide, SA, 2019)**

Project description: Granite and concrete pavers of various formats installed in Gawler Place shared pedestrian/vehicular trafficked areas.

Responsibilities: Overseeing condition survey of installed pavers.

## **Adelaide Festival Square Upgrade**

(Adelaide, SA, 2019)

Project description: Various natural stone paver types installed in public areas of the new Adelaide Festival Square development.

Responsibilities: Evaluation of various stone types proposed for use as pavers. Overseeing testing of stone finishes.

## **Old Adelaide Gaol Remand Wing**

(Adelaide, SA, 2018)

Project description: Restoration and maintenance of the historic remand wing.

Responsibilities: Moisture survey, salt distribution survey, mortar compositional analysis and heritage consulting.

## **South Australian State Herbarium**

(Adelaide, SA, 2018)

Project description: Investigation into rising damp issues within the lower levels of the State Herbarium.

Responsibilities: Moisture survey, salt distribution survey, paint analysis and concrete analysis.

## **Marble Hill Redevelopment**

(Adelaide, SA, 2014–2018)

Project description: Rebuilding and restoration of the Marble Hill Manor.

Responsibilities: Assisting in the development and installation of RMV pins to allow long-term monitoring of moisture levels within the masonry.



## **Flinders Medical Centre Carpark**

(Adelaide, SA, 2017–2018)

Project description: Construction of a new carpark at Flinders Medical Centre.

Responsibilities: Assessing slip resistance of surface finishes within the carpark and assisting in the selection of remediation surface finishes in problem areas.

## **Kapunda Mine (Kapunda, SA, 2017)**

Project description: Restoration of heritage copper mine site.

Responsibilities: Stone, sand and mortar analysis, and heritage consulting.

## **Ayers House (Adelaide, SA, 2016)**

Project description: Investigation into internal and external damp related issues.

Responsibilities: Moisture survey, salt distribution survey and mortar composition analysis.

## **Supreme Court Building (Canberra, ACT, 2016)**

Project description: Survey of marble panel external cladding.

Responsibilities: Assisting in the survey of the external marble cladding and determining the extent of warping and distribution of de-bonded panels.

## **Warders Cottages Fremantle**

(Fremantle, WA, 2016)

Project description: Heritage restoration of the historical Fremantle Prison Warders' Cottages.

Responsibilities: Assisting in the survey of salt damp and decay within the internal walls, sampling masonry to determine salt content, development of a remediation plan.



## **Elizabeth Quay Development**

(Elizabeth Quay, WA, 2015)

Project description: Various natural stone paver types installed in public areas of the new Elizabeth Quay development.

Responsibilities: Evaluation of various stone types proposed for use as pavers. Overseeing testing of stone finishes.

## **Austral Black Quarry – GECA Certification**

(Black Hill, SA, 2014)

Project description: Melocco Stone became the first company to achieve GECA (Good Environmental Choice Australia) certification for the hard surfacing standard.

Responsibilities: Assisting Melocco Stone in document and test certificate preparation to achieve and Australia first GECA certification on South Australian Austral Black Granite.