

**CSR LIMITED**

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25 August 2023

Jesse Evans  
Director Resource Assessments  
Department of Planning and Environment  
Locked Bag 5022  
PARRAMATTA NSW 2124

Dear Jesse

**BADGERYS CREEK QUARRY AND BRICK MAKING PROJECT (MP10\_0014)  
REQUEST APPROVAL OF SUITABLY QUALIFIED PERSON/S**

I am writing to advise you that in accordance with the consent Schedule 3, Condition 23, the Department's approval of a suitably qualified and experienced person/s for the preparation of the Soil and Water Management Plan is required.

**Soil and Water Management Plan**

23. The Applicant must prepare a Soil and Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
- (a) be prepared by a suitably qualified and experienced person/s approved by the Secretary;
  - (b) be prepared in consultation with Council and DPIE-Water;
  - (c) be submitted to the Secretary for approval prior to commencing Phase 1, unless otherwise agreed by the Secretary; and
  - (d) include a:
    - (i) Site Water Balance that includes:
      - details of:
        - sources and security of water supply;
        - water use and management on site;
        - adequacy of water storage facilities to contain all surface water runoff;
        - all existing Water Access Licences and potential Water Access Licences, including information on the relevant Water Sharing Plan and Water Sources;
        - any off-site water transfers, including those described in condition 23A of this Schedule; and
        - reporting procedures; and
      - measures to be implemented to minimise clean water use on site;

CSR Building Products is requesting that the DPIE approves our selected Chartered Professional Engineer, Tim Michel from AT&L. Tim has vast experience on comparable projects which has culminated into an extensive professional portfolio, his resume is attached to this letter.

We request that the Secretary approves our selected suitably qualified and experienced person/s so the development can obtain endorsement of the SWMP in accordance with the condition noted above.

Look forward to your response, if you have any questions, please do not hesitate to contact me.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Monique', with a long horizontal flourish extending to the right.

Monique Elbarbary  
Development Manager – Development  
**CSR Limited – Group Property**

*Attachment – Tim Michel Curriculum Vitae*



## QUALIFICATIONS

Bachelor of Engineering (Civil), University of Technology, Sydney, 2005

Chartered Professional Engineer,  
National Engineers Register  
(Civil, Environmental)

Certified Professional in Erosion and  
Sediment Control® (CPESC® No. 11555)

## ROLE

Associate | Civil Engineer  
Senior Drainage Engineer

## YEARS OF EXPERIENCE

17 years

## REFEREES

### **Northern Beaches Council**

Sadiya King | Team Leader, Stormwater  
Design and Delivery

[Sadiya.King@northernbeaches.nsw.gov.au](mailto:Sadiya.King@northernbeaches.nsw.gov.au)

0468 562 682

### **City of Ryde Council**

Velu Manohar | Senior Engineer

[VManohar@ryde.nsw.gov.au](mailto:VManohar@ryde.nsw.gov.au)

02 9952 8120

## LOCATION

Office: North Sydney

Resides: Forestville

## SUMMARY OF COMPETENCIES:

- Civil engineering / stormwater drainage design
- Stormwater management (quality and quantity) / Water Sensitive Urban Design
- Water Cycle Management

## RECENT RELEVANT EXPERIENCE:

### **CSR Badgerys Creek**

Engineer responsible for preparation of Soil and Water Management Plan for the operation and rehabilitation of the former quarry and brick making facility.

### **Eastern Creek Recycling Ecology Park**

Engineer responsible for preparation of Interim Stormwater Management Plan in support of MOD application for ongoing operation of the Eastern Creek REP, as well as a Surface Water Impact Assessment to support a SSDA for an increase in throughput from 2 Mtpa to 2.9 Mtpa.

### **Mamre Road Precinct – DCP post-exhibition review and advice (Mamre Road Landowners Group)**

Drainage Engineer for provision of advice relating to the stormwater management controls outlined in the draft Mamre Road Precinct DCP, as well as development of estate-wide strategies to satisfy stormwater quality, quantity and flow management measures (for mean annual runoff volume and flow duration curve targets)

### **Various industrial development estates in the Mamre Road Precinct and Western Sydney Aerotropolis**

Engineer responsible for preparation of Erosion and Sediment Control Plans (ESCPs) and Water and Stormwater Management Plans (WSMPs) for various sites, including:

- Aspect Industrial Estate (55ha)
- Dexus Kemps Creek (30ha)
- Edge South (63ha)
- Summit at Kemps Creek (47ha)
- Elizabeth Enterprise Precinct Stage 1 (50ha)

### **Aspect Industrial Estate, Kemps Creek (Mirvac)**

Design Engineer for detailed design of stormwater drainage and stormwater management measures including on-site stormwater detention and proprietary bio-retention (Filtterra®) system.

### **Westlink Industrial Estate, Kemps Creek (ESR)**

Design Engineer for stormwater drainage and WSUD measures (OSD and water quality), including development of strategies to satisfy Mamre Road Precinct DCP controls for stormwater quality, quantity and flow targets.

### **155-251 Aldington Road Kemps Creek Industrial Estate (Frasers Property)**

Design Engineer for SSDA design of stormwater drainage and stormwater management measures including OSD, stormwater quality and naturalised trunk drainage corridors.

### **Lighthorse Interchange Business Hub**

Design Engineer for SSDA and CC design of stormwater drainage and stormwater management measures including OSD, stormwater quality (GPT and bio-retention) creek realignment.

### **new Sydney Fish Market – Bridge Road Upgrade (Multiplex)**

Drainage Engineer responsible for design of stormwater drainage and WSUD measures (proprietary filtration).

### **Johnstons Creek Open Channel Renewal Works**

Design-side Project Manager for a Design & Construct contract for the upgrade of a 650 metre long section of open stormwater channel. The works will include replacement of the existing concrete lining with a new concrete base and stone-lined low flow channel, sandstone channel walls, salt marsh benches and inter-tidal pools and a constructed wetland.

### **King Park Detention Basin Upgrade (Fairfield City Council)**

Study Manager for the flooding investigation, options assessment, preliminary environmental assessment and detailed design of detention basin upgrades at King Park, Wakeley. The basin upgrades included upgrade of the basin spillway, repair of basin embankments.

## **First Avenue to Rowe Street Drainage Upgrade (City of Ryde)**

Lead Engineer responsible for the detailed design of stormwater drainage upgrades, including approx. 150 metres of new 1500mm dia. line to replace an existing 1050mm dia. line.

## **Alexander Street, Collaroy – Stormwater Investigation and Options Assessment**

Project Manager responsible for preparation of a 1D-2D integrated TUFLOW model of the catchment that discharges through the sag point at Alexander Street near Pittwater Road. The study included existing system modelling and assessment of various potential upgrade options.

## **Marine Parade, Fairy Bower – Stormwater Investigation**

Design Engineer responsible for the DRAINS analysis and options assessment for proposed stormwater network upgrades to mitigate network capacity issues at Marine Parade, Fairy Bower – a heavily trafficked pedestrian walkway between Manly Beach and Shelly Beach.

## **Stewart Street, Randwick Drainage Upgrade (Randwick City Council)**

Design Engineer for detailed design of stormwater upgrades between Nancye Street and Stewart Street.

## **Park Street, Mona Vale Flood Investigation and Civil Design**

Lead Engineer for preparation of integrated 1D-2D TUFLOW model and options assessment to address local flooding.

## **Westminster Park Drainage Options**

Design Engineer for DRAINS modelling and options development associated with synthetic turf upgrade of sportsfield.

## **Barangaroo South – Stages 1A and 1B (Lendlease)**

Design Engineer for concept design development and detailed design documentation for roads, stormwater

drainage and water sensitive urban design measures (including design coordination with other disciplines and utility service coordination).

## **The Acres, Tahmoor**

Lead Engineer for concept and detailed design for a large-lot residential subdivision, including internal roads and lead-in road upgrades.

## **Narellan Town Centre**

Engineer for post-design advice relating to the upgrade of Camden Valley Way adjacent to the redeveloped Narellan Town Centre.

## **Mount Gilead Residential Development**

Lead Engineer for preparation of Water Management Strategy for masterplanning of 1700 lot residential subdivision.

## **Upgrade of Macpherson Street and Warriewood Road, Warriewood**

Design Manager and Engineer for detailed design of Macpherson Street upgrade, including raising road by 2m above existing ground level (to provide flood free evacuation). Works included 12m span bridge crossing of Narrabeen Creek, structural retaining walls, 33m wide culvert crossing of an overland flow path, roundabout design, service relocation and stormwater drainage.

## **Wanda to North Cronulla Shared Pathway and Wanda SLSC Carpark**

Design Manager and Engineer for preparation of detailed design documents and construction oversight for civil and drainage works, including stormwater infiltration system.

## **Brimbin Integrated Water Cycle Management Strategy**

Project Manager and Lead Engineer responsible for the preparation of an integrated water cycle management (IWCM) strategy for a proposed residential development precinct near Taree (approx. 8000ha), including assessment of potential water demand, sewage loadings, recycled water supply

and demand, selection of a preferred water cycle management strategy for the site, preliminary infrastructure sizing and preparation of cost estimates.

## **North Shearwater Recycled Water Strategy**

Project Manager and Lead Engineer responsible for the preparation of a Recycled Water Strategy for three proposed development precincts near Tea Gardens and Hawks Nest including assessment of potential recycled water supply and demand, preliminary infrastructure sizing, preparation of cost estimates and water quality modelling of potential impacts of recycled water on stormwater treatment trains.

## **Manly Golf Course Redevelopment**

Lead Engineer for civil and drainage works associated with golf course redevelopment, including stormwater harvesting pond, flow diversion structures and new water courses.

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## **Previous Employment**

**2019 – 2020 – Royal HaskoningDHV,** Senior Civil Engineer

**2014 – 2018 – Cardno (NSW/ACT),** Civil Engineer, Urban Infrastructure

**2007 – 2014 – WorleyParsons,** Civil Engineer, Urban Infrastructure

**2005 – 2007 – Patterson Britton & Partners,** Water

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## **CONFERENCE PRESENTATIONS**

**2022 franc.sydney conference –** *Application of effects based assessment to large-format industrial development in Western Sydney*, Tim Michel, AT&I

**2019 StormwaterNSW conference –** *Synthetic turf sports fields: impacts on stormwater runoff quantity*, Tim Michel, Royal HaskoningDHV

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