

built environment collective



engineered design & management

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# Disaster Relief & Recovery

Capability Statement  
2nd Edition

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[bec.studio](http://bec.studio)

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“ I have no hesitation in recommending BEC, following **their team’s professional and hand-in-hand approach in supporting Gilgandra to achieve approval of the highest dollar value of remediation works in the council’s history.**”

**David Neeves**  
CEO  
Gilgandra Shire Council

“ John as a part of the BEC team **consistently performed to a high standard**, with enthusiasm and commitment. The team were always contactable even during actual events, and would be found on the ground being **part of the team and process all the way to the final acquittal.**”

**Peter Fitchat**  
CEO  
Mckinlay Shire Council

“ Council has been extremely pleased with BEC’s support in **preparing for, submitting, and delivering DRFA works** to date. The experienced, available, and hardworking staff know the scheme back-to-front, and have saved us major headaches while **securing millions of dollars in funding.**”

**Paul Farrell**  
Director  
Carrathool Shire Council

“ Bogan Shire Council defer to BEC for our DRFA evidence pickups and submission preparation as they are **great to work with**, are **experts within the field**, and **offer an all-inclusive service** that makes our life easier.”

**Graeme Bourke**  
Director  
Bogan Shire Council



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**CLIENT:**

Mornington Shire Council

**ACTIVATED EVENTS:**

Gulf Tropical Low, 2017

Cape York Queensland Trough, 2018



# Our Company

Built Environment Collective is an award winning Australian-based multidiscipline project management and engineering consultancy, offering enhanced Client outcomes via integrated solutions & a holistic approach to design & management.

Our DRFA management teams are supported by BEC's award-winning engineering design consultancy, based in our Brisbane Head Office. This allows site teams to be supported by timely and professional design and contract administration support from a dedicated award-winning consultancy.

We work hard to ensure that Client objectives and outcomes are clearly defined from the outset. Our hands-on approach to project management drives each project towards delivery, with an emphasis on quality, cost, and program. A strong focus on collaboration with other team members and stake holders benefits our Clients by integrating a larger pool of ideas and experience, and ensuring a better outcome.

BEC's Brisbane Head Office is well located to facilitate frequent face-to-face discussions with Queensland Reconstruction Authority (QRA) staff, which is essential to ensuring timely assessment outcomes.

BEC is a prequalified supplier for Local Buy, facilitating a streamlined commission process. This supplier arrangement can be a critical element for time-sensitive DRFA works.

We're also proud to be ISO9001:2015 certified to provide Structural, Civil, Building Services & ESD Engineering consultancy, as well as Project Management services in Australia & internationally.



## Local Buy

Register of Pre-Qualified  
Suppliers (RPQS)

Engineering and Environmental  
Consultancy Services Contract:  
BUS 262—0317



# Our People

BEC is comprised of diligent, passionate project management & engineering professionals who utilise their expertise to facilitate optimal Client outcomes, and are based across the eastern coast of Australia for rapid deployment.

Built Environment Collective's staff are recognised as professional engineers in Queensland, New South Wales, Victoria, and nationally via the National Professional Engineers Register of Australia (NPER). Similarly, our project management team members are recognised by the Queensland Building & Construction Commission (QBCC) and the Australian Institute of Project Management (AIPM).

BEC's DRFA team members are based across QLD & NSW for rapid deployment to impacted areas. We are passionate about supporting local Councils, and are experienced at working remotely. Our team has worked with and for Local Government, giving us an unparalleled understanding of the opportunities and challenges inherent in Council.

We maintain a rigorous approach to Continuing Professional Development (CPD). In addition of the commitment required by the relevant institutes and councils, enhanced CPD targets are mandated as part of each staff member's employment contract.

Our Managing Director John Tuxworth spearheads our DRFA & project management offering. John's 20 years of relevant experience includes working with federal and state governments, as well as local councils, to optimise DRFA results. John has personally supported 15 councils in optimising DRFA outcomes, and managed DRFA funding related to over \$200 million dollars of related contracts.



John's achievement in Project Management was recognised in 2014, when he received the Queensland Reconstruction Authority's (QRA's) Award for Excellence in Customer Focus.

The award was given to John following his work assisting regional QLD Council's and the QRA to deliver funding in support of much needed disaster recovery & civil infrastructure works. This Client-centric approach is a constant focus for the team, and has filtered down through the entire organisation.

# What is the DRFA?

Disaster Recovery Funding Arrangements (DRFA) is a joint funding initiative of Commonwealth and State Governments to provide disaster relief and recovery payments, and infrastructure restoration to aid communities following natural disasters.

Damage to signage caused by the Sir Ivan Fire. Captured by BEC for Warrumbungle Shire Council.



Road surface damage caused by prolonged rain & flooding. Captured by BEC for Bogan Shire Council.



Road infrastructure items severely damaged by prolonged rain & flooding. Captured by BEC for Gilgandra Shire Council.





# Our DRFA Capabilities

We're proud to offer a one-stop-shop solution to the preparation, submission, and delivery of DRFA works to Councils across the Council, which is almost all reimburseable under the scheme. This results in huge time savings to Councils - at very little direct cost.

We are intimately familiar with the DRFA scheme, the QLD & NSW Guidelines, and the preparation, submission, and delivery/aquittal process. We leverage a collective experience of over 30 years within the DRFA framework, to inform & deliver the service items listed below:

## 1. Preparation (Pre-Disaster)

- > Assessment of existing pre-disaster evidence
- > Pre-disaster road & road infrastructure evidence capture
- > Digital road network registry preparation & updates
- > Recover system and cost estimation rates/resources set-up
- > Training of works & finance teams

## 2. Submission (Post-Disaster)

- > Post-disaster road & road infrastructure evidence capture
- > Liaison with QRA / TfNSW
- > Preparation of funding submissions via Form 306 or Civica's Recover, including:
  1. EW - Emergency Works,
  2. IRW - Immediate Reconstruction Works, and
  3. RW - Restoration Works.

## 3. Delivery

- > Contract preparation, and tendering
- > Onsite supervision and project administration including funding acquittal
- > Completion road & road infrastructure evidence capture

## DRFA Evidence Capture Solutions:

> BEC's DDCE (Digital Data Capturing Equipment) has been honed and tinkered with over ~30,000kms of rural sealed and unsealed road networks. The system can reliably and accurately produce high quality, GPS tagged, photographic evidence at over 70km/hr. The data output can be easily formatted for upload to asset maintenance platforms, including Civica's Recover. It is highly recommended for DRFA road surface evidence pickups.

> Civica's Recover includes a proprietary iOS and Android application which can be used to capture images one-by-one and upload with associated data directly to Recover. It is recommended for DRFA road infrastructure evidence pickups (culverts, bridges, floodways).





# Our DRFA Experience

Our project management and engineering teams have supported well over 20 Councils in NSW & QLD with the preparation, submission, and delivery of DRFA funded works, as well as providing support to both QLD and NSW's administering bodies, and federal government.

The map to the left highlights the scope and scale of BEC's ongoing support to Councils across the east coast of Australia. Our teams have worked with and for council's in some of the most isolated and diverse regions of Australia, from Mornington Island in the Gulf of Carpentaria, all the way down to Carrathool in central New South Wales.

In addition to supporting local governments, our team has provided consultancy support to the Queensland Reconstruction Authority (QRA), the Orana Regional Organisation of Councils (OROC), and NSW's Office of Emergency Management (OEM). These commissions have resulted in significant and enhanced knowledge of the DRFA Determination, Guidelines, Value-for-Money paradigm, eligibility, complementary & betterment opportunities, submissions, treatments, delivery & programme management, claims, and acquittals; as well as Commonwealth auditing processes which now benefit our Clients.

Specifically, BEC staff have assisted councils affected by the following DRFA activated events since 2013:

- > Western NSW Storms: 10 - 12 April 2020
- > Western NSW Storms: 3 - 4 April 2020
- > Western NSW Floods: 26 February onwards
- > NSW Storms & Floods: 15 January 2020 onwards
- > Carrathool Floods: 22 April 2019
- > Cape York Queensland Trough: 26 January - 2 February 2018
- > NSW Sir Ivan Fire: 14 February 2017
- > Gulf Tropical Low: 15 - 24 February 2017
- > Central Western Queensland Flooding: 13 - 19 June 2016
- > Central Queensland Severe Weather: 15 - 20 July 2016
- > Central NSW Storms & Floods: 30 August 2016
- > Tropical Cyclone Dylan: January 2014
- > Tropical Cyclone Gillian: March 2014
- > Tropical Cyclone Oswald and Associated Rainfall & Flooding: January 2013



# 01

**CLIENT:** Queensland Reconstruction Authority (QRA)  
**PROJECT:** Restoration of Essential Public Assets

BEC has provided a range of specialist Project Management and support services to the Queensland Reconstruction Authority (QRA) across several years, assisting with the multi-billion-dollar restoration of civil infrastructure assets damaged due to disaster events since Cyclones Tasha and Anthony in 2010/11.

BEC Managing Director, John Tuxworth, initially provided Program Management for Value-for-Money assessment of National Disaster Relief and Recovery Arrangements claims.

Our contribution to the QRA grew to include:

- > Program Management for **\$200 million** grant funded reconstruction in Western Queensland;
- > Foundation of VfM assessment frame-work for the \$80 million 2013 joint State and Federal Government Betterment Fund;
- > Establishment of a task-focused DTMR assessment team in 2013; and,
- > Representation at District Disaster (and Local Disaster) Management Groups.



# 02

CLIENT:

Gilgandra Shire Council

ACTIVATED EVENTS:

2016 Flooding & Prolonged Rain and  
February/April 2020 Flooding

The Shire of Gilgandra is located in central west New South Wales, about 400 kilometres west of Newcastle. Known as the town of windmills and the home of the 'Coo-ees', the Shire is a gateway to the majestic ranges of the Warrumbungles National Park. The Gilgandra Shire transport network consists of approximately 980km of unsealed gravel roads and 200km of sealed roads. In 2016 the region was ravaged by flooding and prolonged rain events, in what's widely considered the most damaging disaster event the region has experienced in decades.

BEC was engaged by Gilgandra to assist with the funding and project management of flood restoration works. The data collection, submission, and RMS liaison process extended over a 16-week period, resulting in approval of \$4.15 million funding for eligible works - estimated as being **5 times larger than any previous claims prepared by Council.**

BEC staff were deployed to Gilgandra to project manage, tender, and supervise delivery of the works, which were completed ahead of program. With BEC managing DRFA, council teams were able to continue with other pre-programmed capital, maintenance, and RMS commissioned works.

In February 2020, BEC was engaged again to assist with further damage relief efforts in Gilgandra caused by the February & April 2020 flooding in the area.







# 03

**CLIENT:**

Warrumbungle Shire Council

**ACTIVATED EVENTS:**

Sir Ivan Fire, 2016, and  
2016 Flooding & Prolonged Rain

Warrumbungle Shire is located in the Orana region of New South Wales, approximately 550 kilometres northwest of Sydney. The Shire contains the 23,311 hectare Warrumbungle National Park; home of the famous 'Breadknife' rock formation.

BEC staff were readily available to assist Council in providing emergency and restoration works in response to the devastating Sir Ivan bushfire which raged across 55,000 hectares. The incident destroyed homes, fences, sheds, and killed a huge portion of livestock in the region, as well as damaging infrastructure.

The fire was declared a Natural Disaster by the NSW Government on the 14th of February 2017 and in response, the BEC team were asked to provide a variety of specialist assistance relating to fire affected areas of the Golden Highway.

Emergency Works included to removal of the hazards, with restoration including replacement of signage and guard rails. BEC staff mobilised to the shire to capture data, prepare funding submissions, tender, and manage works. BEC appreciated the opportunity to provide support and assistance to the community.



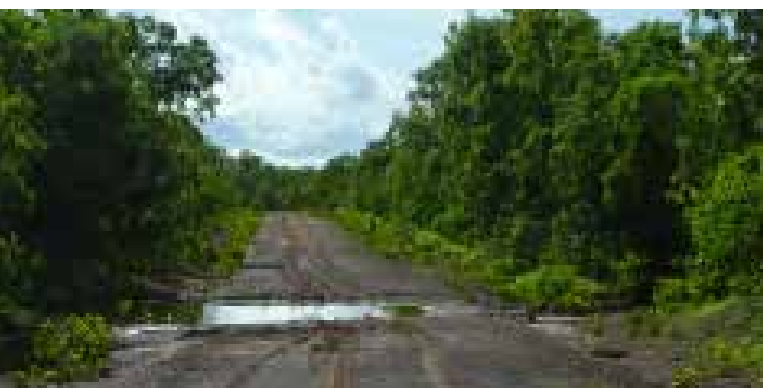
The NSW Office of Emergency Management approached councils in mid-2017 in order to form a committee to review funding administration performance under DRFA. The NSW government was experiencing increasing criticism for not accepting the federal relaxation of day labour ineligibility, despite QLD evidencing value-for-money and adopting the exemption for every approved financial year.

BEC contributed to an audit assessment representing Gilgandra Shire as an invited stakeholder. Data collection, analysis and recommendations contributed to the states readdress of day labour as a value-for-money delivery method for damage restoration.



**Justice**  
Office of  
Emergency Management





# 05

**CLIENT:**

Mornington Shire Council

**ACTIVATED EVENTS:**

Gulf Tropical Low, 2017

Cape York Queensland Trough, 2018

Mornington Island is the northernmost of 22 islands that form the Wellesley Islands group, situated in the Gulf of Carpentaria in far north Queensland. Mornington Shire Council champions a 'togetherness' approach to community, and is active and vocal in its support of Indigenous members of the community and traditional land owners.

Mornington is too frequently battered by tropical cyclones and prolonged rain fall events, resulting in flooding and damage to essential public assets. BEC was commissioned to support Council with:

- > Pre-existing condition assessment
- > Damage data capture
- > DRFA Submission Preparation
- > Tendering
- > QRA Liaison
- > Superintendency
- > Acquittal support

BEC staff were mobilised and have been working on the island for over a year. Approved eligible works include emergent and restoration works for Councils' town street and rural road networks, in ground stormwater network, and street lighting, totalling in excess of \$15 million.

BEC's extended and detailed support included address of QRA benchmarking issues, and precedential application/interpretation of the value-for-money paradigm with related financial impact.



# 06

**CLIENT:**

Bogan Shire Council

**ACTIVATED EVENT:**

Central NSW Storms & Floods, 2016,  
March & April 2020 Floods

Bogan Shire is a local government shire in the Orana region of New South Wales. The Shire is located adjacent to the Mitchell and Barrier Highways and is primarily supported by agricultural production, as well as the grazing of sheep and cattle - making it highly reliant on its road infrastructure network.

In 2016 the region was ravaged by flooding and prolonged rain events, in what has been widely considered the most damaging natural disaster the region has experienced in decades.

Under immense pressure to repair their road and bridge networks quickly, and with wheat and produce harvest deadlines looming, Bogan Shire Council engaged BEC to manage their data capture, submission preparation, liaison with RMS, tendering, and project management of works including superintendency.

BEC staff were mobilised to swiftly support Council through submission preparation and liaison with RMS. Works included restoration of sealed, unsealed and stabilised pavements - resulting in an almost complete mitigation of potential economic impact on the region's agricultural industry. Despite difficulties associated with inconsistency of RMS approvals in comparison to assessments in neighbouring shires, the BEC funding and works management aided to facilitate agricultural industry logistics.

In March & April 2020, Council was impacted by significant flooding due to prolonged rainfall. BEC was asked to assist with a full post-event condition survey to capture existing flood damage, and ongoing project management services to assess the data, and prepare a DRFA funding submission.



The Orana Regional Organisation of Councils (OROC) comprises 12 member councils, including Bogan, Bourke, Brewarrina, Cobar, Coonamble, Dubbo Regional, Gilgandra, Mid-Western Regional, Narromine, Walgett, Warren, and Warrumbungle.

Historically, shire councils in the area have not achieved their preferred outcome with respect to the dollar value of their Disaster Recovery Funding Arrangements (DRFA) funding approvals; and many councils are under immense pressure to repair their road and bridge networks quickly due to annual wheat and produce harvest deadlines.

BEC was engaged by OROC in 2017 to undertake a comparative review and to provide reporting on the variances between the federal determination and the local/individual application of state funding arrangements under RMS.

Our report identified, assessed, and made recommendations regarding 15 identified variances. BEC's reporting was presented to both state and federal government representatives by OROC and member councils in order to positively and proactively inform improved state administration of DRFA funding.







08

**CLIENT:**

Carrathool Shire Council  
[CSC]

**ACTIONED EVENT:**

April 2019 Prolonged heavy rainfall & flooding

Carrathool Shire Council is located in New South Wales, bordering the Riverina & Far West regions of the state. In late April 2019 the region was affected by prolonged heavy rainfall & associated flooding, resulting in extensive damage to the Shire's 2,700km sealed & unsealed road network.

BEC had already conducted an extensive pre-condition assessment of Council's entire network with our tried & tested DDCE (Digital Data Capturing Equipment) enabling Council to comply with current pre-condition evidence regulations.

The BEC team were onsite within a matter of weeks to collect detailed evidence of the damage, in support of Council's application to RMS for activation.

The application was successful, and activation of Carrathool Shire Council for the Carrathool Floods was announced on the 4th of September, 2019. BEC was commissioned to provide further support during the Emergent Works and Restoration of Essential Public Assets phases.

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Palm Island, located in Queensland, is an area consisting of an island group of 16 islands, split between the Shire of Hinchinbrook and the Aboriginal Shire of Palm Island. It is a tropical island with approximately 5,000 residents

The BEC team were called down to the area to help Council with acquiring details & evidence for sealed road damage throughout the island in February 2020. The team worked with Council staff as part of the site audits and being on-location for sealed road repairs.

Alongside that, BEC staff assisted with marking/spray-painting, and recording chainage and photo evidence for sealed road damage items. Further works also included drafting ITP templates for Patch Repair and Heavy Shoulder Grading treatments.





# Our Values

We challenge mediocrity & strive towards client relationships & project team associations where a collective approach is championed in recognition of enhanced outcomes.

We are acutely aware of the adverse impact that current development paradigms have on the triple-bottom-line sustainability.

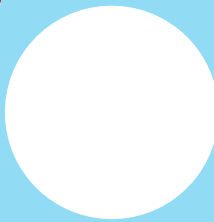
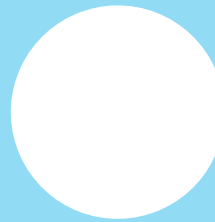
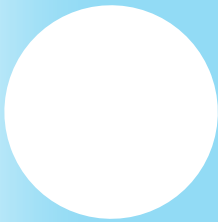
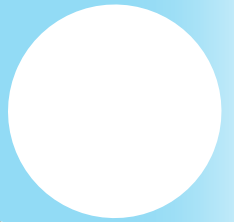
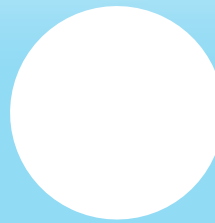
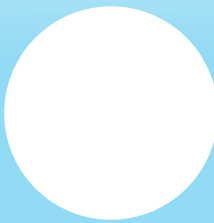
We believe in the benefits associated with professionals adopting a multi-disciplinary perspective in delivering projects.

# Our Vision

To be the first choice of clients who value quality, & to be recognised as adding-value [as opposed to being a commodity service] - by providing creative solutions referencing a diversified skill and experience.

To lead positive triple-bottom-line change in the construction industry.

To found our business success on a passionate approach towards Continual Professional Development in excess of the commitment required by the relevant institutes and bodies.



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