



The IECA Australasia Environmental Excellence Award for 2019

The 2019 IECA Australasia Environmental Excellence Awards took on a slightly different format this year. We initially called for Expressions of Interest (EOI) where applicants were asked for a brief description of their projects. We received over 20 EOIs which shows how much work is happening in the ESC area. From the EOIs 5 organisations were invited to submit a more detailed application for the Environmental Excellence Awards for a project or operation of any value category and 5 for the Innovation, Contribution or Education (ICE) to the ESC Industry category.

The Judging panel then reviewed the detailed submissions and 2 finalists from each category were selected. As in 2018 the judges had difficulty in separating the finalists so further information was sought from independent referees. A secret ballot was then conducted to determine the winner in each category.

The Award winners were announced at the annual IECA Australasian conference dinner held at the Hilton Cairns on Wednesday 2nd October 2019.

IECA Australasia would like to congratulate Fulton Hogan Construction as the 2019 winner of the Excellence for a project or operation of any value for the largest reinforced earth embankment in the Southern Hemisphere using the Maccaferri Green Terramesh Solution.

Fulton Hogan Seymour Whyte Joint Venture are also congratulated for receiving a Highly Commended award for the Bruce Highway Upgrade - Caloundra Road to Sunshine Motorway (CR2SM).

The Soil Conservation Service took out the 2019 ICE Award for "Drawing a line in the sand: A practical approach to coastal erosion".

RST Environmental Solutions received an ICE Highly Commended for the development of the Electronic dosing device (EDD).

Conference delegates had the opportunity to hear about all projects during the first day of the conference.

The judging panel and IECA Australasia would like to thank all entrants to this year's awards. Thank you for supporting IECA and for striving to raise the bar in our industry, and of course, congratulations to this year's winners!

WINNER

ENVIRONMENTAL EXCELLENCE AWARD FOR A PROJECT OR OPERATION OF ANY SIZE

The largest reinforced earth embankment in the Southern Hemisphere using the Maccaferri Green Terramesh Solution

Fulton Hogan Construction



The Peak Downs Highway is a vital route connecting the regional city of Mackay to mining and agricultural areas in Central Queensland’s Bowen Basin.

Winding through Spencer’s Gap on the Eton Range, the highway carries 3,600 vehicles per day, including around 800 heavy vehicles.

The Eton Range Realignment Project (ERRP) will upgrade the existing range crossing to provide a split carriage way, with two lanes in each direction. The new alignment will reduce the road grade to improve safety for heavy vehicles, increase efficiency and capacity of this key transport route and cater for future growth in the region.

The \$189.3 million project is being constructed by Fulton Hogan Construction, on behalf of the Queensland Department of Transport and Main Roads (TMR). The project is part of a \$166.2 million commitment by the federal government to improve safety on the Peak Downs Highway.

Following a Guided Tender Alternative (GTA) procurement process in late 2015, Fulton Hogan Construction proposed an alternative solution for constructing a reinforced earth embankment (REE) in a challenging geotechnical environment.

The result—the Southern Hemisphere’s largest application of the Green Terramesh system for an REE.

ENVIRONMENTAL EXCELLENCE AWARD FOR INNOVATION, CONTRIBUTION OR EDUCATION TO THE ESC INDUSTRY

Drawing a line in the sand: A practical approach to coastal erosion.

Soil Conservation Service



The Soil Conservation Service (SCS) has developed a collaborative approach to implementing coastal remediation projects, to rectify a disconnect between coastal designers and builders.


In 2016, an east coast low storm eroded Stockton Beach threatening a local surf club. During construction of the wall to protect the surf club, SCS identified the potential for closer collaboration between the designers and the team building the wall.

The project commenced with neither party having a full appreciation of both the technical and practical input required to drive a successful outcome. A more collaborative approach was required to secure an equitable division of risk and to ensure the efficient delivery of the project.

In 2018 a huge storm eroded another section of Stockton Beach, with an old landfill site washing into the sea. In a separate coastal project, designs were finalised to address bank stability concerns in the suburb of Pelican, where a building had previously collapsed into Lake Macquarie.

SCS identified an opportunity to use the experience gained overcoming challenges in 2016 and apply these insights to this next series of coastal projects.

SCS initiated collaboration with clients and designers from the outset of both projects, thereby improving stakeholder cooperation, communication and enabling the optimum outcome for communities living with the threat of coastal erosion

| HIGHLY COMMENDED | |
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| ENVIRONMENTAL EXCELLENCE AWARD FOR A PROJECT OR OPERATION OF ANY SIZE | ENVIRONMENTAL EXCELLENCE AWARD FOR INNOVATION, CONTRIBUTION OR EDUCATION TO THE ESC INDUSTRY |
| <p>Bruce Highway Upgrade - Caloundra Road to Sunshine Motorway (CR2SM)</p> <p>Fulton Hogan Seymour Whyte Joint Venture</p> | <p>Electronic dosing device (EDD).</p> <p>RST Environmental Solutions</p> |
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| <p>Fulton Hogan Seymour Whyte Joint Venture (FHSWJV) is delivering the \$812.95 million Bruce Highway Upgrade – Caloundra Road to Sunshine Motorway (CR2SM) on behalf of the Queensland Department of Transport and Main Roads (TMR).</p> <p>Located on Queensland’s Sunshine Coast and adjacent to sensitive areas of State and National Environmental Significance, the team is using innovative and cost-effective solutions for erosion and sediment controls (ESC) to manage land and water contamination.</p> <p>A proactive, transparent approach to environmental management has earned accolades from the Department of Environment and Science (DES). The Regulator described the planning and execution of ESC on the project to be of a high standard in environmental performance and representative of best practice.</p> <p>By actively sharing and promoting their results at forums, site tours and education sessions for industry, community groups, local and state government departments, CR2SM is positively contributing to the broader ESC industry.</p> <p>The innovation adopted by the projects’ construction joint venture partners (Fulton Hogan and Seymour Whyte) is setting a new benchmark for large scale civil transport infrastructure projects delivered in Queensland.</p> | <p>The electronic dosing device (EDD) provides precision dosing based on water flow for efficient coagulation of sediment retention ponds. Using solar power, and a long-life peristaltic pump these are durable and long-lasting units. The units use a precise aluminium flume, with an ultrasonic that reads to within 2mm accuracy, to measure the total flow into a sediment retention pond.</p> <p>Each unit has remote access from online or with a mobile app that can provide live updates, alerts, and historical data. An included rain sensor adds to the unit and in conjunction with the flume provides a more complete picture of the site. The electronic dosing device (EDD) provides precision dosing based on water flow for efficient coagulation of sediment retention ponds.</p> <p>Using solar power, and a long-life peristaltic pump these are durable and long-lasting units. The units use a precise aluminium flume, with an ultrasonic that reads to within 2mm accuracy, to measure the total flow into a sediment retention pond.</p> <p>Each unit has remote access from online or with a mobile app that can provide live updates, alerts, and historical data. An included rain sensor adds to the unit and in conjunction with the flume provides a more complete picture of the site.</p> |