

Mr Michael Yiend
Development Manager
Qube Holdings Ltd
Level 27, 45 Clarence Street
Sydney NSW 2000

03/12/2021

Dear Mr Yiend

**Moorebank Precinct East - Stage 2 (SSD-7628)
Nomination of alternate Environmental Representatives**

I refer to your submission requesting the Planning Secretary's approval of Mr Christopher Jack and Mr Adam Bishop of Pitt & Sherry as Environmental Representatives (ER) under the conditions of consent for Moorebank Precinct East – Stage 2 (SSD 7628).

I note that Mr Jack and Mr Bishop:

- have demonstrated that they meet the skills, qualifications and experience requirements under condition C22;
- were not involved in the preparation of the documents listed in condition A1;
- are independent of the design and construction of the project.

As nominee of the Planning Secretary, I approve the appointment of Mr Christopher Jack and Mr Adam Bishop of Pitt & Sherry as ERs under condition C22 of SSD 7628.

Please ensure you provide the ERs with all relevant information required to undertake the role and that you respond to their requests for information in a timely and complete manner.

If you wish to discuss the matter further, please contact Lee McCourt on 8289 6969.

Yours sincerely



Jake Shackleton
Director – Infrastructure Management

As nominee of the Planning Secretary

Suite 117
25 Solent Circuit
Baulkham Hills
NSW 2153

28 September 2021

Erica van den Honert
Department of Planning, Industry and Environment
320 Pitt Street
Sydney
NSW 2000

Dear Erica van den Honert,

MPE STAGE 2 (SSD 7628) COC C22 ENVIRONMENTAL REPRESENTATIVE(S)

Under Condition C22 of SSD 7628, SIMTA (as the Applicant) nominates Chris Jack of Pitt&Sherry Pty Ltd to fulfill the role of Environmental Representative (ER) and seeks Secretary approval to:

1. engage Chris in line with the requirements of MPE Stage 2 (SSD 7628) Condition C22 and the *Environmental Representative Protocol* (DPE, 2017); and
2. also engage Adam Bishop of Pitt&Sherry as an alternate ER to support the Primary ER, Chris Jack – noting that Condition C22 allows the Applicant to engage more than one ER for the development.

Chris is suitably qualified with a broad range of experience in environmental management, auditing and environmental planning, and will bring significant leadership and practical experience to the role. He has worked on behalf of both Government and private entities overseeing impact assessments and construction activities for Sydney Water, ARTC, RMS and Snowy Hydro by way of example. Roles throughout this time have included Independent Auditor, EIS Coordinator, Lead (environmental interface) and Technical Advisor.

Adam has worked in in environmental management, review and auditing, project management, technical specialist and planning roles, and is equally suitably qualified for an ER role. Adam has significant experience with private and Government entities, and has worked on major construction projects including Westconnex, the New Maitland Hospital, the Hunter Expressway, Old Glebe Island Bridge Upgrade, and Eunony Bridge Upgrade. Adam has fulfilled the roles of Environmental Management Representative, Project Manager, Technical Specialist and Planning, and has provided audit advice as Lead Auditor.

Please find included within this appointment request, summary tables (Attachment A) outlining the qualifications, skills and availability of Chris Jack and Adam Bishop. CVs providing project details for Chris Jack and Adam Bishop are included as Attachments B and C, respectively.

Chris, Adam and Pitt&Sherry are not presently, nor have they been previously, engaged to perform advisory, design or delivery services for SIMTA. There is no known direct or perceived conflict of interest in the proposed engagements as outlined.

The purpose of this information is to demonstrate that Chris and Adam satisfy the requirements of the Environmental Representatives Protocol (DPE, 2017) and confirm their independence to the construction, operation, delivery and design of the Project.

We trust this notification meets your requirements. Please don't hesitate to let me know if there is anything we can do to facilitate the Department's prompt formal response.

Regards

A handwritten signature in blue ink, appearing to read 'RJ', is positioned below the word 'Regards'.

Richard Johnson
Director

Enclosed:

Attachment A: Summary tables against Environmental Representatives Protocol (DPE, 2017)

Attachment B: Curriculum Vitae – Chris Jack

Attachment C: Curriculum Vitae – Adam Bishop

ATTACHMENT A – SUMMARY TABLES AGAINST ENVIRONMENTAL REPRESENTATIVE PROTOCOL (DPE, 2017)

Table 1: Summary table against Environmental Representative Protocol – Chris Jack

| Section and Ref (ER Protocol 2017) | | Response |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1 | Independence | Pitt&Sherry confirms their independence from the design and construction team and are committed to remaining independent of the design and construction team for the life of the project. |
| 2.1 | ER Role Sections 2.1.1 to 2.1.4 - general, advice, documents, compliance – form part of the ER role as engaged by Qube. | |
| 2.2 | Skills and Qualifications (Chris Jack): | |
| | | <p>Chris is a Principal Environmental Planner with over 30 years' experience including Technical and Project Director on a range of projects across numerous industry sectors. His experience includes projects approvals, feasibility studies, impact assessment, project risk assessment and management, environmental monitoring and compliance management.</p> <p>He has prepared and provided expert evidence for the Land & Environment Court of NSW, and environmental impact assessments including Part 4.1 and 5 and 5.1 of the <i>Environmental Planning and Assessment Act 1979</i>, liaison with regulators, stakeholder and community engagement, modifications to approvals, management plans including CEMPS and OEMPS, developing compliance programs, environmental audits and development of Environmental Management Systems.</p> <p>Chris has been involved in major linear infrastructure projects from preparing planning approvals as Environmental Factors to State Significant Developments (SSD) and Infrastructure. Chris recently was the Lead Environmental Interface for Reference Engineering design of the Snowy 2.0 project for Snowy Hydro. He also was one of the Technical Experts reviewing the adequacy of the EISs and associated CEMPs covering the NSW and Qld sections of ARTC's Inland Rail project. Chris has also prepared and reviewed many REFs and Construction and Operational Environmental Management Plans and sub-plans for many projects including for TfNSW. Chris was also one of the Independent Environmental Auditors for Lane Cove Tunnel monitoring environmental compliance with development consent conditions.</p> <p>Because of his varied experience and senior roles, Chris is able to act confidently and independently as an ER across many different types of projects with multi-disciplinary teams and multiple stakeholders.</p> |

| Section and Ref (ER Protocol 2017) | | Response |
|---------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <p><u>Education and Qualifications:</u></p> <ul style="list-style-type: none"> • Bachelor of Science (Marine Biology and Zoology) (Hons) James Cook University • Master of Environmental Planning, Macquarie University • Post Graduate Diploma of Environmental Studies, Macquarie University • Accredited in Risk Communication Facilitation <p><u>Skills:</u></p> <p>Chris is an experienced environmental, sustainability and planning professional with significant experience in:</p> <ul style="list-style-type: none"> • Environmental and Social Impact assessment and planning approvals • Development of Sustainable Business/Enterprise Risk Strategies • EHS systems development, diagnostic surveys, audits, and training • Development and implementation of EHSC assurance processes and verification audits • Safety and sustainability performance transformation strategies • Corporate sustainability • Development of Sustainable Performance Indications • Risk Communication and Stakeholder engagement |
| 2.3 | Experience | Please refer to detailed project information in the CV included with this letter. |
| 2.4 | Availability | |
| | | Chris is currently Project Director / Manager for a number of small environmental planning approval requiring approximately 2 days per week through to the end of 2020. Based on this current workload Chris is willing and able to commit to the ER role for the foreseeable future (i.e. 1-3 years). |
| 2.5 | Departmental Communication | |
| | | The Moorebank Precinct through the various development phases already active, is an established development with ER to DPIE communication protocols already well established. Chris will adopt the existing project protocols and migrate those to the MPW Stage 2 phase of the development. |
| 2.6 | Site Inspections | |

| Section and Ref (ER Protocol 2017) | | Response |
|---------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | The Moorebank Precinct through the various development phases already active is an established development, with site inspection protocols already well established. Chris will adopt the existing project protocols and migrate those to the MPW Stage 2 phase of the development. |
| 2.7 | Monthly Reports | |
| | | The Moorebank Precinct through the various development phases already active is an established development, with regular reporting protocols already well established. Chris will adopt the existing project protocols and migrate those to the MPW Stage 2 phase of the development. |
| 2.8 | Non-Compliances and Incident Reporting | |
| | | The Moorebank Precinct through the various development phases already active is an established development, with protocols for Non-Compliances and Incident Reporting already well established. Chris will adopt the existing project protocols and migrate those to the MPW Stage 2 phase of the development. |
| 3.1 | Endorsement | Pitt&Sherry are independent of the project delivery team, including those involved in the construction, operation, delivery and design of the project. |
| 3.2 | Terms of Engagement | Pitt&Sherry confirms that it will meet the terms of engagement as per the ER Protocol. It is Pitt&Sherry's intention that Chris will be the ER until the completion of all relevant works required under the Development Consent. |
| 3.3 | Alternate ER | Pitt&Sherry is proposing Adam Bishop as an alternate ER to support the Primary ER Chris Jack (refer to Table 2). If required, Pitt&Sherry could potentially offer other alternate candidate(s) for the ER if required in the future. |

Table 2: Summary table against Environmental Representative Protocol – Adam Bishop

| Section and Ref (ER Protocol 2017) | | Response |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1 | Independence | Pitt&Sherry confirms their independence from the design and construction team and are committed to remaining independent of the design and construction team for the life of the project. |
| 2.1 | ER Role Sections 2.1.1 to 2.1.4 - general, advice, documents, compliance – form part of the ER role as engaged by Qube. | |
| 2.2 | Skills and Qualifications (Adam Bishop): | |
| | | <p>Adam is Principal Environmental Consultant with Pitt & Sherry. Adam has more than 20 years' experience in construction environmental management, environmental impact assessment and training. Adam has significant experience delivering construction environmental management services supporting both Contractors and regulators. Adam has prepared, reviewed and implemented CEMP documentation for major road infrastructure developments, road bridges, rail infrastructure, industrial developments and mining and extractive developments. Adam has fulfilled the role of soil conservationist on major rail developments and has worked on behalf of the NSW Department of Planning, Industry and Environment to review and approve Contractor's EMP documentation through the post approvals phase. Adam has previously fulfilled the role of Alternate ER on two major road construction projects – Hunter Expressway and Kurri Kurri to Branxton Pacific Highway upgrade. More recently, Adam led a team providing post approval services to NSW Department of Planning, Industry and Environment, reviewing the Contractors CEMP documentation for the Rozelle Interchange to enable DPIE approval in accordance with the project approval.</p> <p>Because of his varied experience across multiple major construction projects supporting both Contractors and regulators, Adam is able to act confidently and independently as an ER across many different types of projects with multi-disciplinary teams and multiple stakeholders. Adam brings to these projects specific technical expertise in soil and water management, which is usually one of the key construction environmental management risks.</p> <p><u>Education and Qualifications:</u></p> <ul style="list-style-type: none"> • Bachelor of Environmental Science, Honours (Earth Sciences), University of Wollongong – 1998 • Former Certified Professional in Erosion and Sediment Control (CPESC No. 7394) (certification lapsed) • Fundamentals of Erosion and Sediment Control for Main Road Construction. • Member of Environment Institute of Australia & New Zealand <p><u>Skills:</u></p> <p>Adam is an experienced environmental and planning professional with significant experience in:</p> <ul style="list-style-type: none"> • Environmental management systems and plans for construction and operation in the transport sector. |

| Section and Ref (ER Protocol 2017) | | Response |
|---------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <ul style="list-style-type: none"> • Preparation and independent review of CEMPs and sub-plans, for road, rail and industrial developments. • Construction and operational soil and water management. Adam has performed the role of project soil conservationist on a number of significant infrastructure and industrial development projects. • Mining and extractive industry, planning approvals and operational environmental management. • Environmental impact assessment including SEE, REF and EIS preparation, for Designated Development, State Significant Infrastructure and State Significant Development projects. • Soils and hydrology in environmental impact assessment |
| 2.3 | Experience | Please refer to detailed project information in the CV included with this letter. |
| 2.4 | Availability | |
| | | Adam is currently project managing and delivering technical support to a number of environmental impact assessment and mining advisory projects. He has current availability of approximately 2 days per week through to the end of 2021. Adam is willing and able to commit to the Alternate ER role for the foreseeable future (i.e. 1-3 years). |
| 2.5 | Departmental Communication | |
| | | The Moorebank Precinct through the various development phases already active, is an established development with ER to DPIE communication protocols already well established. In his role as Alternate ER Adam would be advised by the Primary ER (Chris Jack) and will adopt the existing project protocols and migrate those to the MPW Stage 2 phase of the development. |
| 2.6 | Site Inspections | |
| | | The Moorebank Precinct through the various development phases already active is an established development, with site inspection protocols already well established. In his role as Alternate ER Adam would be advised by the Primary ER (Chris Jack) and will undertake site inspections consistent with established processes. Adam would be available to provide specific expertise in identifying risks associated with soil and water management. |
| 2.7 | Monthly Reports | |
| | | The Moorebank Precinct through the various development phases already active is an established development, with regular reporting protocols already well established. Adam will adopt the existing project protocols and migrate those to the MPW Stage 2 phase of the development. |
| 2.8 | Non-Compliances and Incident Reporting | |
| | | The Moorebank Precinct through the various development phases already active is an established development, with protocols for Non-Compliances and Incident Reporting already well established. Adam would adopt the existing project protocols and be advised by the Primary ER. |

| Section and Ref (ER Protocol 2017) | | Response |
|---------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1 | Endorsement | Pitt&Sherry are independent of the project delivery team, including those involved in the construction, operation, delivery and design of the project. |
| 3.2 | Terms of Engagement | Pitt&Sherry confirms that it will meet the terms of engagement as per the ER Protocol. It is Pitt&Sherry's intention that Chris will be the ER and Adam would be the Alternate ER until the completion of all relevant works required under the Development Consent. |
| 3.3 | Alternate ER | Pitt&Sherry is proposing Adam Bishop as an alternate ER to support the Primary ER Chris Jack. The alternate ER would assist during periods of intensive ER workload such as when multiple approvals documents require review at the same time, or to offer technical support in areas where the alternate ER has such specialization (eg soil and water management). The alternate ER would fulfil the role of Primary ER when the Primary ER is on leave or otherwise unavailable, or as otherwise required. |

ATTACHMENT B – CURRICULUM VITAE – CHRIS JACK

Christopher Jack



Senior Principal - Environment

Sydney New South Wales



Contact

Email: cjack@pittsh.com.au

Phone: (02) 9468 9318

Mobile: 0491 696 700

Qualifications & professional affiliations

- Bachelor of Science (Marine Biology and Zoology - Hons), James Cook University
- Post Grad Diploma of Environmental Studies, Macquarie University
- Master of Environmental Planning, Macquarie University
- Accredited with Dr Peter Sandman in Risk Communication Facilitation
- In-house advanced project management and business leadership courses with URS Corporation
- Founding Member of Environment Institute of Australia & New Zealand

Chris is a Principal Environmental Planner with over 30 years' experience including Technical and Project Director on a range of projects across numerous industry sectors. His experience includes projects approvals, feasibility studies, impact assessment, project risk assessment and management, environmental monitoring and compliance management.

He has prepared and provided expert evidence for the Land & Environment Court of NSW, and environmental impact assessments including Part 4.1 and 5 and 5.1 of the Environmental Planning and Assessment Act, 1979, liaison with regulators, stakeholder and community engagement, modifications to approvals, management plans including CEMPS and OEMPS, developing compliance programs, environmental audits and development of Environmental Management Systems.

Chris has been involved in major linear infrastructure projects from preparing planning approvals as Environmental Factors to State Significant Developments and Infrastructure. Chris recently was the Lead Environmental Interface for Reference Engineering design of the Snowy 2.0 project for Snowy Hydro. He also was one of the Technical Experts reviewing the adequacy of the EISs and associated CEMPs covering the NSW and Qld sections of ARTC's Inland Rail project. Chris has also prepared and reviewed many REFs and Construction and Operational Environmental Management Plans and sub plans for many projects including for TfNSW. Chris was also one of the Independent Environmental Auditors for Lane Cove Tunnel monitoring environmental compliance with development consent conditions.

Chris has strengths in the management of multi-disciplinary studies including in the infrastructure, water, waste, power generation and transmission, and resources sectors. Chris also has a wealth of international experience, having worked on projects throughout the Middle East, Asia/Pacific, S.E. Asia, South Asia, and sub-Saharan Africa.

Focus

- Environmental and Social Impact Assessment
- Communications and Stakeholder Consultation including risk communication strategies
- Development and implementation of EHSC (sustainability) systems, assurance processes and verification audits
- Corporate Sustainability Reporting

Project experience

Environmental Advisory/Audit

Independent Environmental Auditor, Lane Cove Tunnel Construction

- Chris was engaged to undertake an Independent Environmental Audit for the Lane Cove Tunnel while under construction by Thiess John Holland JV

Blue Mountains Catchment Sewerage Overflow Rectification Project

- Chris was seconded to Sydney Water to oversee the Consultants preparing the EIS for the upgrading and licensing of sewerage overflows in the Blue Mountains catchment

Snowy 2.0. Snowy Hydro Ltd

- Chris was the lead environmental technical advisor for the feasibility study for Snowy 2.0 project, a pumped hydro project being developed by the Snowy Hydro Ltd and lead environmental interface between the Snowy 2.0 SMEC Reference Design team and the team compiling the EIS for the early works component of the project.

Inland Rail Project. ARTC.

- Chris was a Technical Advisor for ARTC providing a technical and quality review role of Environmental Impact Statements and associated specialist environmental reports for the various sections of the Inland Rail project in NSW and Queensland. Inland Rail is a railway construction project extending from Melbourne to Acacia Ridge, Queensland along a route west of the mountainous Great Dividing Range. The railway will transport freight between Melbourne and Brisbane with an anticipated transit time of less than 24 hours.

QCLNG coal seam gas/LNG project

- Technical advisor for on-site environmental management team for the construction of the \$27 billion QCLNG coal seam gas/LNG project

Phulbari Coal Project, Bangladesh

- Chris was appointed Team Leader for independent environmental review of Phulbari Coal Project in Bangladesh against Equator Principles and relevant IFC and ADB standards and guidelines, for Barclays Capital

Environmental Affairs advisor. Western Australian Resources Pty Ltd

- Chris led the development of an EHS and project approvals strategy as an Environmental Affairs Advisor for a multi-million-dollar aquaculture project in Northern Australia

Pumped Hydro Energy Storage Projects. AGL

- Chris developed the environmental approval pathways and impact assessments process for numerous renewable energy pumped hydro energy storage projects for AGL in NSW and Victoria.

Coal Seam Gas Extraction Project. Sydney Gas/AGL

- Chris was an environmental expert witness for a NSW L&E Court case for proposed coal bed methane extraction and distribution project in the Sydney Basin for Sydney Gas Company.

Environmental Impact Assessments

Easing Sydney's Congestion Program. NSW Roads and Maritime Services.

- Chris was Project Director the environmental assessment (REFs) and associated community consultation for a number of ESC road upgrade projects across the Sydney metropolitan road network. This involved working with the engineering design team to ensure environmental issues were identified early in the design process to avoid impacts or that management / mitigation measures were incorporated during the construction phase. Rapid environmental assessments were also required to facilitate field geotechnical investigations that were required to inform the design process while still achieving project schedules.

North Orange Road By-pass Options Evaluation, Environmental Assessment and Community Consultation. Orange city Council

- Chris was Project Director for the Route Options Study and associated environmental impact assessment study for a proposed by-pass of the town of Orange, NSW. This project integrated extensive community consultation and government stakeholder consultation.

Nelson Bay Road Bypass Alignment Options Assessment and EIS. Port Stephens Shire Council

- Chris was Project Manager for the options assessment study and Environmental Impact Statement. This project involved developing and accessing options for the provision a road by-pass of the township of Nelsons Bay, NSW.

More Trains More Services, REFs for multiple Rail improvement projects across the Sydney metropolitan rail network. Transport for NSW.

- Chris was Project Director for Reviews of Environmental Factors to support numerous rail upgrade projects.

Site selection, ESIA, CEMPs and OEMPs for Coal Seam Gas to LNG Project, Gladstone, Qld. QCLNG (A BG Group Company).

- Chris led a large team of specialists (over 25 people) embedded within client's organisation. The key focus was to develop and implement the government approval process including undertaking environmental and social impact assessments for the US\$ 20+ billion coal seam gas to LNG project in Queensland, Australia. Government approvals were achieved in a record time for such a complex project and as a result the project went into full production on schedule in mid-2014. Chris also lead the team developing the overarching Construction phase EMPs and the Operational EMPs for the tender construction phase.

Eastlink NSW-Queensland interconnect transmission line. TransGrid

- Chris was project team leader for EIS for Eastlink NSW-Queensland interconnect transmission line. The Eastlink proposal would connect the Queensland electricity grid with that of the south-eastern states via a high voltage dual transmission line from Springdale near Gatton in Queensland, to Armidale in northern NSW.

Botany Groundwater Clean-up Project (EIS). Orica Pty Ltd.

- Chris was the Project Manager for the Project EIS and associated extensive stakeholder and community consultation program. Groundwater in Botany and nearby areas was contaminated by various chemicals after more than a century of industrial operations by multiple companies in the area, before the implementation of strict government regulated environmental controls. The Botany Groundwater Clean-up Project was a multi-action approach to contain the contaminated groundwater, prevent it from entering Botany Bay, and treat the contaminated groundwater for non-potable reuse.

Shoalhaven City Water Supply Augmentation: Stage 2B (EIS). Shoalhaven City Council

- Chris was Project Director for the options assessment study and Environmental Impact Assessment. This project involved developing and assessing options for the increasing the extraction of water from the Shoalhaven River downstream of Burrier to augment water supplies.

Tomaree Peninsula Sewerage Scheme (EIS). NSW Public Works/Port Stephens Shire Council

- Chris was Project Manager for the options assessment study and Environmental Impact Assessment. This project involved developing and accessing options for the provision of a reticulated sewerage scheme for the peninsula including a deep water sewage outfall.

Botany Groundwater Clean-up Project (EIS). Orica Pty Ltd.

- Chris was the Project Manager for the Project EIS and associated extensive stakeholder and community consultation program. Groundwater in Botany and nearby areas was contaminated by various chemicals after more than a century of industrial operations by multiple companies in the area, before the implementation of strict government regulated environmental controls. The Botany Groundwater Clean-up Project was a multi-action approach to contain the contaminated groundwater, prevent it from entering Botany Bay, and treat the contaminated groundwater for non-potable reuse.

ATTACHMENT C – CURRICULUM VITAE – ADAM BISHOP

Adam Bishop



Principal Environmental Consultant

Newcastle New South Wales



Contact

Email abishop@pittsh.com.au

Phone (02) 4910 3605

Mobile 0400 648 773

Qualifications & professional affiliations

- Bachelor of Environmental Science, Honours (Earth Sciences), University of Wollongong – 1998
- Certified Professional in Erosion and Sediment Control (CPESC No. 7394) (lapsed)
- Fundamentals of Erosion and Sediment Control for Main Road Construction.
- Member of Environment Institute of Australia & New Zealand

Adam is a Principal Environmental Scientist with more than 20 years' experience in environmental consulting and training. Adam has significant experience delivering construction environmental management services supporting both Contractors and regulators. Adam has prepared, reviewed and implemented CEMP documentation for major road infrastructure developments, road bridges, rail infrastructure, industrial developments and mining and extractive developments. Adam has fulfilled the role of soil conservationist on major rail developments and has worked on behalf of the NSW Department of Planning and Environment to review and approve Contractor's EMP documentation through the post approvals phase for the Rozelle Interchange. Adam has undertaken back-up independent Environmental Representative roles for two major road developments – the Hunter Expressway and Kurri Kurri to Branxton Pacific Highway upgrade.

Adam has broad environmental impact assessment experience having participated in and led multidisciplinary teams on a diverse range of environmental impact assessments (EIAs), including Environmental Impact Statements (EISs) and Review of Environmental Factors (REFs) for projects including linear (road and rail) infrastructure, industrial and extractive industry developments. Adam has managed specialist teams and led the writing of EISs for several major projects including State Significant Development (SSD) projects and Designated Developments.

Adam has particular technical expertise in management of water and soils. Adam regularly fulfils the role of technical specialist (soil and water) on EIA projects, providing advice on aspects such as stormwater management, water balances, water supply, water treatment, groundwater management, wastewater management and erosion and sediment control. He has undertaken extensive work in soil survey, interpretation and mapping; erosion and sediment control; stormwater management for construction and operational phases of development; water sensitive urban design (WSUD); environmental auditing and compliance monitoring.

Expertise:

- Construction environmental management, including preparing and implementing CEMPs for Contractors and providing independent verification of Contractor's EMPs compliance against approval documents.
- Soil and water management – soil conservation specialist on transport infrastructure projects as well as industrial, mining & extractive and urban land development, projects.
- Environmental impact assessment including preparation of SEE, REF and EIS documentation, for Designated Development, State Significant Infrastructure and State Significant Development projects.
- Mining and extractive industry, planning approvals and operational environmental management

Project experience

Environmental Management Representative

- **Alternate EMR for Hunter Expressway – NSW Roads and Maritime Authority (2013)**
Adam was the alternate EMR on the Hunter Expressway project. Adam's role as EMR involved inspection of environmental controls (particularly stormwater, erosion and sediment control, and rehabilitation), liaison with contractor (Thiess Services), RMS and regulatory authorities, ensuring compliance with project approval and licenses, and relevant reporting.
- **Senior Environmental Advisor (secondment, September 2011) Dugald River Mine, Cloncurry QLD – MMG**
Adam provided a temporary replacement for the SEA at MMG's Dugald River mine for 4 weeks. The role involved construction supervision and provision of environmental advice on a significant early works land clearing and development project. Adam was responsible for internal permitting of ground disturbance activities, advising on water management and erosion and sediment control, ensuring compliance with the project Environmental Authority and construction management plans, and implementing the Environmental Management System.
- **Alternate EMR for Karuah to Bulahdelah Section 2/3 – NSW Roads and Traffic Authority**
Adam was the alternate EMR for 6 weeks on the Karuah to Bulahdelah Pacific Highway upgrade. Adam's role as EMR involved regular inspections of environmental controls (particularly stormwater), liaison with contractor (Abigroup), RTA and regulatory authorities, ensuring compliance with project approval and licenses, and relevant reporting.

Environmental Impact Assessment and Planning, Construction Approvals

- **Westconnex M4-M5 Link Rozelle Interchange Post Approval EMP Documentation review (2019).**
Pitt&sherry was engaged by the Department of Planning and Environment, (Infrastructure Management Department) to conduct detailed reviews of Contractor's EMP documentation and assist the Department fulfil its role in approving the documentation. The review process included a first review, then second review of updated documents. Detailed comment tables were prepared at each review, and recommendation letters prepared summarising the adequacy of documentation for approval by the Department. EMP documents reviewed included the overarching CEMP and nine separate sub-plans, including the Traffic, Transport and Access Management Plan, Noise and Vibration Management Plan, and Soil and Water Management Plan.
- **Graymont Excelsior Lime Kiln Dust Disposal, EIS (2021).** Adam project managed preparation of the EIS for a proposed emplacement to dispose lime kiln dust in the Excelsior pit, generated at Graymont's nearby Charbon lime kilns. Adam's role included coordination

of specialist studies, development of operational environmental controls, coordination of surface water and groundwater impact assessments, and overall technical and quality review of the EIS document.

- **Muswellbrook Organics Recycling Facility, Designated Development EIS (2020) (Muswellbrook Council).** Adam project managed preparation of the EIS for a new composting facility at Muswellbrook Waste and Recycling Facility. Adam's role included coordination of a range of specialist studies, assessment of soil and water aspects of the proposal, and overall technical and quality review of the EIS document.
- **Holcim Banksmeadow Concrete Plant and Rail Terminal EIS (2018)**
Adam led **pitt&sherry's** team in the role of planning approvals manager, preparing the EIS and Designated Development application for a proposed concrete plant and rail aggregate terminal in Banksmeadow, NSW. Adam's role included coordination of internal and external technical specialists, leading communication with Agencies and consultation with the community, and providing the key interface with Holcim's engineering design and environment teams and also pitt&sherry's designers who prepared concept design for the development. Key issues included traffic and access, air quality, noise, water management and management of residual contamination (soil and groundwater) from historical industrial activities at the adjoining Botany Industrial Park. Issues were addressed through proactive consultation with Agencies such as RMS, to negotiate traffic improvements for the adjoining Beauchamp Road, part of the State Road network. Consent was granted by the Sydney Eastern City Planning Panel.
- **Yarraman Abattoir and Feedlot, State Significant Development EIS (2015 – ongoing)**
Adam is the Project Manager for the environmental investigations and delivery of an EIS for a proposed abattoir and feedlot in the NSW Hunter Valley. The Project is State Significant Development under part 4.1 of the EP&A Act. Adam's role commenced in the project's infancy, where he advised on the planning and approval pathway, undertook initial environmental constraints analysis and then managed the SSD application and request for SEARs through preparation of a Preliminary Environmental Assessment. On behalf of the client, Adam facilitated and led an early planning focus meeting with Government Agencies. This involved a presentation on the project, outlining key issues for consideration in the EIS and receiving initial feedback from the Agencies. Adam received praise from the Agencies and excellent client feedback as a result of the PFM. Adam is currently coordinating a team of environmental specialists and integrating directly with the project design and engineering teams throughout project development, to identify and resolve environmental issues and build the EIS.
- **The New Maitland Hospital, State Significant Infrastructure EIS (2014 – 2018) – Health Infrastructure NSW**
Adam was the project Manager providing planning approvals advice to Health Infrastructure (HI) since 2014 to support development of the New Maitland

Hospital (NMH). Initially Adam's role involved working closely with the project managers, design and architectural consultants to support development of a business case in 2014. A key task was preparation of a Preliminary Environmental Assessment. In 2017, Adam led the preparation of an Environmental Impact Statement and associated planning approvals for a staged State Significant Infrastructure (SSI) application, addressing Stage 1 of the hospital. Adam's role has involved managing the SSI environmental approvals process, managing external resources (specialist subcontractors) and internal team delivering the EIS. Fundamental to achieving the tight program objectives was active coordination and collaboration between the various teams on the project, including the proponent's project management team, design team, architects and various engineering and services consultants.

- Tamworth Council Organics Recycling Facility EIS (client: Tamworth Council)(2020).** Pitt&sherry prepared the EIS and concept design for a proposed ORF near Tamworth that will accept and process up to 35,000 tonnes per annum of Food Organics (FO), Garden Organics (GO) and Category 3 organic materials, using a Tunnel Composting System (TCS). Adam fulfilled the role of soil and water specialist for the EIS, preparing chapters on soils, surface water and groundwater impact assessment, and contributing to design of stormwater and leachate management systems and modelling for the water balance. Adam has provided ongoing assistance in response to submissions and has coordinated meetings to resolve issues with key regulators.
- Dolwende Quarry, Designated Development EIS (Upper Hunter Holdings) (2013 – 2017)**
 Adam provided extensive planning and environmental assessment services for the Dolwende Quarry, an approved State Significant Development project in the Upper Hunter Valley, NSW. Adam was the Project Manager and key client contact. He led the majority of environmental assessment and reporting for this project. This included initial due diligence review and planning pathway advice, preparation of the Preliminary Environmental Assessment (PEA) and subsequently completion of the EIS to support the SSD application. Adam's role included coordination and management of specialist subcontractors in resource assessment and quarry planning; ecology; Aboriginal heritage; noise and vibration; blasting; air quality and groundwater assessment. Adam oversaw all community and Agency stakeholder consultation. Adam prepared the Submissions Report and ultimately supported the applicant in obtaining SSD Approval.
- Smeaton Grange Galvanising Plant EIS (Corplex) (2014 – 2015)**
 KMH was engaged to prepare the EIS for a proposed hot dip galvanising plant on industrial land at Smeaton Grange in southwestern Sydney. The Project classifies as Designated Development. KMH has now completed and submitted the EIS for determination by Camden Council and is working through a response to submissions. Adam is the Project Manager and key client contact for this Project. Adam's role included critical review of specialist assessments by external consultants in a number of key areas including air

quality, noise, visual and traffic impact assessment. Adam managed the internal delivery by KMH of Phase 2 contamination investigations and Preliminary Hazard Analysis under SEPP33, as well as all community stakeholder and Government Agency consultation. Adam undertook quality and technical review of the EIS and has led the ongoing consultation with Camden Council throughout the assessment process.

- Environmental Assessment (Part 3A) for Northern Dune Silica Sand Quarry, Oyster Cove NSW (2010-11). Sibelco Australia Ltd.** The Northern Dune sand quarry extracts unusually pure silica sand used in glass making among other things. Adam project managed the preparation of a Part 3A environmental assessment for expansion of the quarry. This involved managing a multidisciplinary team of environmental specialists, community stakeholder and government agency liaison, review and compilation of specialist studies, provision of advice on matters such as biodiversity offsetting, groundwater protection and soil and water management.
- Environmental assessment services to Ventia Boral Amey Joint Venture (VBAJV) Stewardship Maintenance Contract, Sydney South (2014 – Present), various RMS road maintenance and upgrade projects**
 Adam is currently managing the delivery of environmental assessment and approvals services to VBAJV. Adam's role includes managing a team of environmental professionals writing Minor Works REFs, Project REFs and Step 2 Memos and undertaking technical/quality review of all outputs, for a range of road maintenance and upgrade projects. The role involves close liaison with VBAJV environment and engineering/design staff as well as with RMS. Adam is responsible for program and budget management to ensure effective and timely delivery of services under the works program. Adam has authored and led development of more than 15 MWREFs as well as Project REFs for Glebe Island Bridge, Taren Point intersection widening, McKell Ave and Sir Bertram Stevens Drive culvert replacements in the Royal National Park.
- Roads and Maritime Services – Review of Environmental Factors, Easing Sydney's Congestion Program (2016 – present)**
 Adam was the Project Manager for numerous Project REFs prepared for the ESC Program. Select projects include Cumberland Hwy and Merrylands Rd intersection upgrade, Hume Highway and Hoxton Park Rd upgrade; Hoxton Park Rd and Joadja Rd intersection upgrade; and Heathcote Road Bridge widening REF
- Roads and Maritime Services – Review of Environmental Factors, Maintenance and Safety Projects (January 2016 – present)**
 Adam was the Project Director for numerous minor works REFs under Part 5 of the EP&A Act for various maintenance and safety road upgrades within the Hunter region. In this role Adam was responsible for technical and quality review of all assessments in accordance with the exacting requirements of Roads and Maritime staff and in line with all relevant templates and guidance documents and review

comments from previous assessments. Adam's role has focused on client relationship management and Adam has developed strong working relationships with Roads and Maritime project engineers and managers. Projects that Adam has been responsible for include New England Highway / Newington Lane Intersection Upgrade; Northcott Drive Safety Improvement Works; Wilfred Barrett Drive Median Barrier Installation; Cessnock Road Pavement Rehabilitation Works; Golden Highway, Culvert Extension and Batter Works; and Kurri Kurri Culvert Replacement and Drainage Remediation.

- **Old Glebe Island Bridge Upgrade Project REF (VBAJV/ RMS) (2014-15)**

Adam prepared an REF for proposed maintenance works at the heritage listed Glebe Island Bridge. The Glebe Island Bridge is listed on numerous statutory heritage registers including the National Heritage List. The Proposal involved significant demolition, repairs and refurbishment of the dolphins and fender structures. Adam managed subconsultants who undertook several specialist investigations, including heritage surveys and preparation of a Statement of Heritage Impact (SoHI); as well as marine ecology and marine sediment contamination assessments. Subject to a number of specific work requirements, including selection of comparable materials for use in the refurbishment, the SoHI found that the works would have an acceptable impact on the heritage item and an exemption under section 57 (2) of the Heritage Act 1977 was applied. Adam authored the REF which included developing targeted mitigation measures to address key risks, including in particular water quality risks associated with contaminated marine sediment.

- **Review of Environmental Factors, Transport Access Program – Transport for NSW (2016)**

Adam provided technical and quality review of three REFs prepared under Part 5 of the Environmental Planning and Assessment Act 1997 (EP&A Act) for the development of commuter car parks at railway stations in Sydney.

- **Preliminary Environmental Investigation (PEI) Avoca Drive Kincumber (RMS) (2015)**

Adam was the Project Manager for this project with Roads and Maritime Services (RMS) that involved preparation of a PEI for the proposed upgrade of approximately 3.5 km of Avoca Drive, Kincumber, on the NSW Central Coast.

The PEI provides an overview of key environmental and legislative constraints and outlines the appropriate planning/approvals pathway, external licenses/approvals required and expected consultation requirements. A comprehensive suite of environmental aspects were considered through a combination of site investigation and desktop database review to identify key environmental issues for future consideration. Adam undertook technical and quality review of the PEI which was delivered to RMS's requirements and received positive client feedback.

- **Planning Advice, Summerhill Waste Management Centre, The City of Newcastle. (2015)**

Adam undertook a preliminary review of key environmental and social issues associated with a proposed Organics Recycling Facility (ORF) at

Summerhill and advised Newcastle Council on the planning and approvals pathway for the Project. This included consideration of whether the Project would constitute Designated Development and require an EIS. It was determined that an EIS is not required and that an appropriate approval pathway is a s96 modification to the existing consent. This advice assisted Council in planning and tendering for the Project.

- **Approvals Support, Stingray Creek Bridge, Port Macquarie Hastings Council (2011 – 2015)**

Adam provided various construction environmental management and approvals support services on the Stingray Creek Bridge Replacement Project. This included preparation of the overarching CEMP and sub-plans including Soil and Water Management Plan and Compensatory Habitat Plan, for inclusion with the tender documents for bridge construction. Adam subsequently managed preparation of consistency assessments to assess the environmental impact of several design changes, including a footway underpass, ancillary facilities (compounds and stockpile sites), alternate bridge design and revised construction methodology. Adam also assisted Port Macquarie Hastings Council to obtain Fisheries Approvals for the works. Adam managed specialist marine ecologists to undertake detailed mapping of marine flora (seagrass and mangroves), prepared the Fisheries application for "harm marine vegetation" and consulted with Fisheries and Council throughout the process to secure the approval within a tight timeline.

- **REF for Waratah to Sandgate Re-signalling, ARTC (2019)**

Adam was the project director and technical reviewer for the REF prepare by pitt&sherry. The REF assessed key issues such as works near the rootzone of protected trees, in proximity to watercourses and near habitat for green and golden bullfrog. Planning considerations under the Water Management Act 2000 and SEPP Coastal Management 2018 were addressed.

- **REF for Quirindi bridges, ARTC (2019)**

Adam was the project director for preparation of an REF for replacement of two bridges at Quirindi. Key issues included consideration of construction methodology, construction access, compound locations and staging areas, working within an environment containing flood prone land, protected terrestrial and aquatic biodiversity and key fish habitat.

- **REF for Watermark Rail Passing Loop. ARTC (Upper Hunter Valley Alliance UHVA)(2012)**

Adam prepared an REF for construction of the 1,963m rail passing loop at Watermark in the Liverpool Plains region of NSW, one of many rail network upgrades undertaken by UHVA to increase rail network capacity.

Adam project managed preparation of the REF, including engagement and coordination of specialists (noise, air, traffic, ecology, community consultation), liaison with client and design team, undertaking specialist soil and water investigations, compiling practical and cost-effective mitigation measures; and preparing the REF report and a subsequent soil and water management plan.

- Addendum REF, Scone Reconfiguration Noise Walls (ARTC) (2014)**
 As a result of the expected increase in operational train speeds to 50km/hr and increased rail noise brought about by reconfiguration to the Scone yard, ARTC sought to introduce noise mitigation works adjacent the rail line through Scone in the NSW Upper Hunter Valley. The key mitigation included erection of a 2km long noise wall. Adam prepared the addendum REF to assess the potential impacts of the noise wall. This included management of a landscape design/visual impact specialist to assess the visual impacts and identify sympathetic design opportunities to minimise visual impacts.
- REFs for Culvert Replacement, F3 Freeway (Somersby and Ourimbah) (RMS) (2010-11)**
 RMS identified a number of ageing corrugated steel culverts that were in poor condition and in need of replacement to protect the Freeway. Adam prepared separate REFs for the replacement of three culverts. This involved undertaking environmental desktop and site investigations; reviewing statutory requirements; coordinating a multidisciplinary team of environmental specialists, preparing the REF reports; client engagement and project management.
- Construction Environmental Management for Hunter Valley 30TAL Re-railing**
 Adam provided construction environmental management advice and environmental risk assessment and management documentation for Leighton Contractors, for a program of re-railing works throughout the Hunter Valley in 2014.
- Hunter Expressway Kurri Kurri to Branxton – Abigroup (2010-11)**
 Adam managed a team of environmental specialists (heritage and ecology) providing start-up environmental approvals support to Abigroup on the Hunter Expressway Kurri Kurri to Branxton road construction project. Adam's role included key client contact; contract negotiation and administration; preparation and implementation of health and safety plans; consultation with Aboriginal stakeholders; provision of general environmental advice for compliance with approval conditions; coordination of field staff; program and budget tracking; report writing and review. This project gave Adam a strong working knowledge of the 2010 due diligence, archaeological investigation and consultation guidelines, and the statutory requirements underpinning Aboriginal heritage assessment in NSW.
- Redgrove Property, Property Management Plan – Department of Defence (2011)**
 Adam prepared an environmental assessment in the form of a physical appraisal report and property management plan to support a proposed redevelopment of lands adjoining the Singleton Army Training Area, known as "Redgrove Property". The assessments were similar in form to an REF and CEMP. Adam's role involved report preparation, project management, site investigations, coordination of archaeologists and ecologists, land capability and erosion hazard assessment and mapping, developing land management recommendations, and preparing an Environmental Clearance Certificate (ECC) and

reporting.

Soil and Water Management

- Water audit, Bingo Bins Patons Lane Resource Recovery Centre (2019)**
 Working with lead auditor Ken Holmes, Adam provided specialist audit advice relating to surface water and groundwater as part of a pre-operations compliance audit. The role included site inspection and audit of the facilities' water management systems against the Soil, Water and Leachate Management Plan. A particular focus was the construction status of water management infrastructure and adequacy of rehabilitation following major earthworks associated with landfill construction.
- Eunony Bridge Upgrade Baseline Erosion and Sediment Control Plans (2020). BDM Constructions**
 Adam prepared the baseline ESCP (sub-plan to the CEMP) including conceptual ESCP drawing for works to upgrade Eunony Bridge. The ESCP addressed risks associated with works within waterways, clearing of riparian vegetation, site access and establishment of ancillary facilities.
- Hexham Relief Roads Soil and Water Management (2013-14). ARTC/UHVA**
 Adam led on the soil and water investigations for the Hexham Relief Roads project involving construction of five relief roads, a complex construction project within and environment constrained by high groundwater, flooding, historical contamination and acid sulfate soils. Adam prepared the soil and water management plan, acid sulfate soils management plan and water quality monitoring plan. Adam managed specialist groundwater and water quality modelling and investigations, to characterise groundwater contamination and quantify impacts to construction. Adam developed groundwater management plans and procedures, and oversaw a surface water quality modelling exercise to establish site specific criteria for discharge of (treated) contaminated groundwater. Adam provided advice and design criteria for a water treatment plant required to treat contaminated groundwater from dewatering; and prepared an EPL application and associated technical studies for discharge of treated groundwater to nearby receiving waters. Adam has an ongoing role in reviewing the results of surface water and groundwater monitoring programs.
- Specialist Soil and Water Investigations for Murray Goulburn Milk Processing Facility, Erskine Park NSW (2013)**
 In December 2013 the NSW DP&I approved the construction of a milk processing facility under Part 5.1 of the EP&A Act. Adam prepared the chapters on Ground Conditions and Surface Water Management for the EIS, which included conducting a detailed geomorphologic survey and water quality investigation of a nearby creek and riparian environment; assessing potential groundwater and salinity impacts; and reviewing geotechnical investigations, contamination assessments and remediation works to assess the site's suitability for the intended use. Adam prepared the soil and water management plan for both early works and major construction stages, including design

of a sediment basin, and provided certification of SWMP implementation for the early works stage. Adam worked with the project design engineers, landscape consultants and broader EIS team to design the Project in a way that minimised impacts on adjoining riparian habitat.

- **Soil Conservationist, Upper Hunter Valley Alliance (UHVA) (2012-2014). Leighton Contractors / ARTC**

Adam was the project soil conservationist working within the UHVA team to deliver rail infrastructure upgrade projects throughout the upper hunter valley. Responsibilities includes conducting specialist soil and water investigations and reporting for environmental impact assessments, preparing construction environmental management plans, conducting regular site inspections and audits of soil and water management performance, developing progressive erosion and sediment control plans during construction, and providing ongoing specialist advice on water supply, treatment, management and reuse during construction. Adam provided soil conservation services on the following UHVA projects: Nundah Bank, Chilcotts Creek loop, Pages River loop, Drayton Junction renewal, Watermark loop, Hexham Relief Roads.

- **Silver Peak Mine, Site Investigation and Rehabilitation Review. NSW Derelict Mines Program**

Adam led this project for NSW Department of Industry, Derelict Mines Program (DMP) in 2015, to undertake site investigations at the abandoned Silver Peak and Colon Peak mines at Yerranderie, NSW. The work involved a review of efficacy of existing contamination/remediation, stormwater drainage measures and erosion and sediment controls, with recommendations for improvement. A specific goal was to evaluate the capacity of the site's existing sediment basin and options for removal and containment of sediment onsite. Targeted soil and water sampling was undertaken with subsequent laboratory analysis, to inform decisions about potential and actual environmental risks at the site. KMH's services on this project received positive feedback from DMP, our findings resulting in a scope reduction and cost savings which were well received.

- **Tender Support (Soil and Water Management advisor) Westconnex M4 East Widening, Thiess Samsung John Holland JV**

KMH was commissioned by the Thiess John Holland Joint Venture to support their bid for the design and construction of the M4 East Widening Project. Adam worked within the tender support team to address environmental risks (and mitigation measures), construction environmental management and sustainability.

Adam prepared a set of baseline erosion and sediment control plans for the utilisation phase, for inclusion in the CEMP provided with the tender. The ESCPs focused on the ancillary facilities including compounds as well as tunnelling establishment.

- **Soil and Water Management Peer Review, Austral Bricks**

Adam conducted a peer review of soil and water management practices at Austral Bricks' large brick

processing and raw material quarrying operations in western Sydney. Aspects of the audit included review of management plans and associated documentation; review of site water management practices including catchment peak flow calculations to determine adequacy of diversion drain sizing, sediment basin sizing and management, and water discharge procedures; and review of erosion controls and rehabilitation works. Any issues requiring remedial action were identified and discussed with site representatives during the inspection, and a summary of these issues presented in an audit report. The audit was used to update Austral Bricks' internal Water Management Procedure for the sites.

- **Cressfield Bentonite Mine (2010). Sibelco Australia Limited**

In 2010 a dam breach at the Cressfield mine resulted in sediment pollution of a nearby creek. In response Sibelco were directed by the EPA to clean up and report on the cause and impacts of the spill.

Adam assisted Sibelco to assess, manage and report to EPA on the impacts of the spill and subsequent cleanup operations. Adam's role included water quality monitoring and interpretation, auditing and reporting on soil and water management at the mine, coordination of aquatic ecologists and other specialists, assessment of clean-up works and impacts on the aquatic environment, and compliance reporting required under the EPL.

- **Soil and Water Management Review, Attunga Limestone Mine (NSW) – Sibelco Australia Ltd**

Adam undertook a review of soil and water management systems at the limestone mine to satisfy a Pollution Reduction Program condition issued against the mine's EPL. The review comprised an assessment of the erosion and sediment control systems against the standards in Managing Urban Stormwater: Soils and Construction – Volume 2E Mines and Quarries (DECC, 2008). It included review of all sediment basin capacities; erosion and sediment controls; water management systems; discharge and sampling locations; operational plans and maintenance procedures. A detailed assessment was provided including recommendations for improvement to haul road drainage, increased sediment basin sizing, and addition of monitoring locations.

- **Due Diligence Fatal Flaws Assessment for Confidential Gold Project, W.A**

Adam's contributed within an expert team undertaking a high level environmental due diligence audit of confidential gold mining operations in Western Australia to ascertain major risks related to their activities. The project involved more than 30 individual mining operations. Aspects of compliance reviewed included State Government mining permits plus associated financial bonds, and mine rehabilitation plans. Adam's role on the project related to specialist assessment of rehabilitation and surface water management obligations and risks.

- **Prepare Detailed Design Documentation for Erosion Control and Rehabilitation Works – Defence Establishment Orchard Hills, Dept of Defence (delivered through DMM P/L)**

This project involved preparation of detailed designs

for rehabilitation of 14 priority sites at DEOH, to improve trafficability of access tracks and halt further erosion and environmental degradation. A soil conservation approach was adopted in the designs, utilising solutions such as rock causeways (for creek crossings), contour banks and cross banks to manage stormwater flows.

- **Design and Project Manage Erosion Control Works – Salt Ash Air Weapons Range, Dept of Defence (delivered through Spotless P&F P/L)**

The project involved investigating eroding and degraded lands at SAWR; allocating and designing remediation works; project management and supervision of earthworks contractors and preparing documentation on completed works.

- **Scope and Design Rehabilitation Works for Easement Access Tracks – Killingworth NSW, TransGrid.**

Site investigations were undertaken to scope and design erosion control and rehabilitation works for 7 km of damaged and eroding access tracks along TransGrid's transmission line easement. Detailed design specifications were prepared for tender. Supervision of earthworks contractor followed.

- **Construction Environmental Management, Maitland to Minimbah Third Track – AANCSA (Alliance between Ansaldo STS and ARTC)**

Adam project managed the preparation of CEMPs for rail signalling work on this major rail alliance project in the Hunter Valley. Broader environmental advice to the contractor included management of erosion and sediment control, heritage, flora and fauna, contaminated soils, and construction noise.

- **Prepare ESCP for New Pump Station and Pipeline – Bayswater Power Station, Tenix Alliance**

Site investigations and preparation of ESCP for installation of a new Hunter River pump station and installation of 2km of twin, 1.5m diameter underground water pipelines and service road. Subsequent audit of works.

- **Prepare Hydrological and Soils Assessment for Paling Yards Wind Farm (NSW Southern Highlands) – Union Fenosa Wind Australia. (2011)**

Adam prepared a hydrological and soils assessment to accompany a Part 3A Environmental Assessment, for the proposed wind farm in southern NSW. The assessment included a review of soil and water constraints; assessment of potential impacts; a water balance addressing construction water demands and availability of supply options; and a conceptual soil and water management plan for construction addressing construction of turbines, laydown yards, unsealed roads and waterway crossings. Transmission line options were reviewed and an assessment of potential impacts undertaken, in line with stringent Sydney Water requirements for activities in the Sydney drinking water catchment area.

- **Prepare Erosion and Sediment Control Plans for Hawkesdale and Ryan Corner Wind Farms – Union Fenosa Wind Australia, Victoria**

Adam prepared ESCPs for use by construction contractors, addressing construction of turbines, laydown yards, unsealed roads and waterway

crossings. The ESCPs identified site constraints and described management practices to minimise construction impacts, in accordance with best practice guidelines.

- **Prepare Soil and Water Management Plan - Boral Metro Quarries, Seaham NSW**

Adam prepared a Soil and Water Management Plan (SMWP) for the existing hard rock quarry to address site water management deficiencies. A detailed erosion and sediment control plan was prepared in accordance with the Blue Book, including sizing and designing new sediment control devices (Type C rock wall basins) to protect nearby waterways. Measures for improved water recycling were also developed. A conceptual design was prepared for rehabilitation of eroded areas. A detailed water balance was prepared to calculate quarry water demands and assess water supply security.

- **Prepare Soil and Water Management Plan - Champions Quarry, Tucki Tucki NSW**

Adam prepared a Conceptual Soil and Water Management Plan (SMWP) to accompany an EIS for an application to expand the existing sandstone quarry in Northern NSW. The SWMP included assessing site constraints, designing a drainage plan, sizing of sediment basins and water storage structures, and preparing a water balance to assess the water security of the site operations. Subsequent expert advice was given to the Land and Environment Court for a Class 1 appeal.

Environmental Training

- **Erosion and Sediment Control Training – Keller Civil (KCE)**

Adam prepared and delivered a 1-day short course in the fundamentals of erosion and sediment control for the construction industry to more than 25 staff including Project managers, Design engineers, Supervisors and plant operators, over two separate days.

The course comprised a mix of classroom theory sessions, group workshops, practical demonstrations and field-based activities. Theory sessions included a Power-point presentation comprising dot-points of key messages with extensive use of photos and diagrams. Theory sessions were broken up by workshops and small group exercises aimed at engaging participants in implementing the lessons learned. Practical demonstrations were also used to assist in delivering key messages. Afternoon field-based sessions involved visits to active KCE construction sites where ERSR risks and controls were discussed as a group, and opportunities for improvement to current practices were reviewed and agreed.

- **Erosion and Sediment Control Training – various Councils**

Adam prepared and delivered 1-day and 1½-day training programs in erosion and sediment control, to more than 200 Council staff from four local government areas. The training including preparing PowerPoint presentations and handouts, classroom (theory) sessions, demonstration on soil properties and

erosion control, and practical (field-based) demonstration on assessing erosion hazard and selecting, installing and maintaining a range of erosion and sediment control best management practices.

- **Onsite Wastewater Management Training**

Adam has prepared and delivered training a number of professional training courses to audiences including system suppliers, consultants, Council and State Government staff, focusing on different aspects of onsite wastewater management including:

- 2-day course on Sand Filters and Mound Systems;
- 2-day course in Domestic Greywater Management; and
- 1-day course in Preparing and Evaluating Site and Soil Assessment Reports.

Suite 117
25 Solent Circuit
Baulkham Hills
NSW 2153

8 November 2021

Lee McCourt
Department of Planning, Industry and Environment
320 Pitt Street
Sydney
NSW 2000

Dear Lee,

RFI (0506597) RESPONSE - MPE STAGE 2 (SSD 7628) ENVIRONMENTAL REPRESENTATIVE(S) NOMINATION (COC C22)

Thank you for your correspondence dated 6 October, 2021 which requests further justification in relation to the Applicant's nomination of Mr Christopher Jack and Mr Adam Bishop as alternate Environmental Representatives (ERs) for the Site, under Condition C22 of SSD 7628.

Since the approval of MPE Stage 1 and MPE Stage 2, the Applicant has also gained approval for MPW Stage 1 (SSD 5066) and MPW Stage 2 (SSD 7709). These approvals have generated additional workload for the previously nominated ER (Mr Rui Henderson). The primary justification for the Applicant's nomination of alternate ERs for the Site, is to allow the ER-related workload across the greater MLP site to be distributed. This would obviously provide for improved efficiency and hence construction timing.

In addition to this, the Applicant notes:

- Condition C22 permits the development to have more than one ER;
- as required under C22, the original nomination demonstrated that both Mr Christopher Jack and Mr Adam Bishop are suitably qualified and experienced for the role of ER; and
- the nominated ERs are independent of the design and construction personnel associated with the development.

We trust this notification meets your requirements. Please don't hesitate to let me know if there is anything we can do to facilitate the Department's prompt formal response.

Regards

A handwritten signature in blue ink, appearing to read 'RJ', with a horizontal line underneath.

Richard Johnson
Director