



# Jacob Franklin

Principal Environmental Engineer  
Team Leader-Manager

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- www.floodman.com.au
- 18/79-83 Tweed Coast Road,  
Bogangar NSW 2488

## Date and Place of Birth

6 November 1975, Coffs Harbour, NSW, Australia

## Drivers Licence

NSW, Class CU, 11527840

## NSW WorkCover

Site Construction Induction Card

## CAREER OBJECTIVES

Continue to play an active role in the Environmental Engineering, Assessment, Management, and Planning industry, in particular floodplain and stormwater assessment, studies, design and management. Lead by example in dedicated Project Management, Direction and Service Delivery.

Continuously update my technical skills in response to technological advancements and enhance the profile of the Engineer in relation to community and client/stakeholder consultation and superior service and project delivery.

To be a Trusted Advisor to key stakeholders and specialize in provision of both public and private sector services.

To deliver quality leading and best practice technical outcomes, project management and customer focused services.

## INTERESTS

Swimming and boardriding at the beach, coastal and bush walks through National Parks and Reserves, gardening, landscaping, herbology, healthy food, cricket, rugby league and union, basketball, tennis, music, camping, travel, and BBQ's.

## ASPIRATIONS

Preserve my interest in calibrating models to real data and use them as a community consultation tool. Educate and influence change to manage floodplains, waterways, and the ocean from risk and pollution; and surf and travel around Australia and the world.

## PROFILE

Jacob has near 20 years' experience as a principal and professional environmental engineer. Jacob utilises his technical skills within riverine, estuarine, coastal, rural, and urban environments to play an active role in the environmental and engineering planning, assessment, and design industries. Jacob has gained a wide variety of project experience for various development types including subdivisions, precincts, building complexes, roads, bridges, rail, sporting/recreational, public open space, commercial, airports, ports, mining, public services and utilities on behalf of both government and private sector clients. Jacob technically specialises in flood, stormwater, overall water cycle engineering, civil engineering and design integration, environmental and impact assessment, coordination, project direction and management of multidiscipline teams delivering projects within constrained locations. Tools utilised by Jacob include hydrologic and hydraulic modelling using computational software like TUFLOW, HEC-RAS, MIKE, XP, waterRIDE, GIS applications, XLS/FORTRAN database and computational models for integrated water cycle management/water balance, and MUSIC. Jacob's core strength capabilities sit in project, business development and staff team management. Prior to forming FLUME Engineering in February 2018, Jacob had held regional office manager, senior project manager, water/environmental/traffic manager, and business development manager positions within Burchills, GHD, PB, SMEC, and Cardno. Recently Jacob was employed by Kempsey Shire Council under contract delivering one of Australia's most complex Floodplain Risk Management Plan processes for the Macleay River, as well as forward planning stormwater system upgrades to be in line with Australian Rainfall and Runoff 2019 methods.

Jacob is entrepreneurial and has the unique ability to find an opportunity and turn it into a successfully completed project from quality outputs and keeping clients and stakeholders engaged every step of the way.

Jacob will truly lead any task assigned and consultant team from the front and will always keep line of management informed on progress, outcomes and any issues to be resolved collaboratively.

## TECHNICAL SKILLS AND KNOWLEDGE

### Environmental, Water and Civil Engineering Work Sectors

- Project Direction and Management (specialist and multidiscipline teams)
- Riverine and Estuarine Modelling (1D/2D Hydraulics and Hydrological Estimation)
- Flood Risk Assessment and Management under England PPG25 and Wales TAN15, NSW Floodplain Development Manual, Local Council Policy in NSW and QLD
- Flood Risk Mapping and Decision Support Systems Development
- Catchment Flood and Emergency Management Planning and Response
- Water Sensitive Urban Drainage (WSUD - Australia)
- Flood Defence Assessment (Design, Strategic Review and Breach Modelling) Flood Warning and Flood Forecasting
- Hydrometric Data Collection and Data Management River Modelling Auditing and Updating
- Water Quality Modelling, and Assessment
- Hydrographic Survey
- Stormwater Infrastructure Design and Documentation
- Stormwater Management Plans and Drainage Studies
- Integrated Water Cycle Management Strategies and Plans
- Land Development Assessment, Feasibility, and Peer Review
- Civil Engineering and Design (niche skills - infrastructure and developments with the floodplain)
- Due Diligence
- Coastal Hazard and Estuarine Studies and Investigations
- Environmental Impact Assessment and Management
- Regional Business Development
- Tendering and Proposals
- Contract Management
- Targeted Marketing and Strategy
- Client Relationship Management
- People and Team Management, Leadership, Training and Mentoring

### Computer Literacy

- Microsoft Office (Word, EXCEL, PowerPoint, Project); Competent HEC-RAS; Advanced
- ISIS (similar to MIKE11); Advanced TUFLOW/ESTRY; Intermediate
- Project Management Systems; Advanced
- FORTTRAN Programming; Intermediate MIKE11/21/FLOOD; Basic
- XP-STORM/SWMM; Basic
- XP-RAFTS; Advanced MUSIC; Advanced
- VMODFLOW Groundwater modelling; Basic MapInfo & VM; Intermediate
- ESRI ArcGIS Pro; Basic waterRIDE; Basic
- DRAINS; Basic
- WBNM; Basic



## MANAGEMENT AND ENGINEERING EMPLOYMENT HISTORY

### Principal and Registered Engineer

May 2020 to Present

### FloodMan Engineering, NSW and QLD, Australia - Self Employed

Provision of expert level advice, design, modelling, assessment, plans of management, and project management to trusted clients across both NSW and QLD in private and government sectors. Matters pertaining to catchment, fluvial, estuarine, and urban flood and stormwater management. This link provides an example of the work quality produced: download copy: [https://1drv.ms/b/s!Aq4vTWbpjhT\\_hSKq8opF-Xek2AeZ?e=iKKh5X](https://1drv.ms/b/s!Aq4vTWbpjhT_hSKq8opF-Xek2AeZ?e=iKKh5X)

### Principal Flood and Stormwater Engineer / Team Manager

October 2020 to Present

### OSKA Consulting Group, QLD, Australia

Responsible for day to day team management of 5 staff, securing workload, project management and direction, business planning and implementation, certification, verification, coordination, and review of all team output pertaining to flood and stormwater matters and projects.

### Flood and Drainage Engineer

2019 to 2020

### Kempsey Shire Council, NSW, Australia

Responsible for the total service delivery of the Flood and Stormwater Drainage (rural and urban) from development of funding applications, managing consultant contracts, modelling, assessments, investigations, design, and construction / maintenance programs. The role includes flood warning system and asset management. Recently delivered one of Australia's largest and most complex Flood Studies on the Lower Macleay River and building rapid and strong relations with BoM, SES, and NSW Government.

### Managing Director

2018 to 2019

### Flume Engineering, NSW and QLD, Australia

Responsible for the total service delivery of the Flood and Stormwater Drainage (rural and urban) from development of funding applications, managing consultant contracts, modelling, assessments, investigations, design, and construction / maintenance programs. The role includes flood warning system and asset management. Recently delivered one of Australia's largest and most complex Flood Studies on the Lower Macleay River and building rapid and strong relations with BoM, SES, and NSW Government.

### Discipline and Business Group Manager

2014 to 2018

### Burchills Engineering Solutions, QLD, Australia

Water, Environment, and Traffic/Transportation - Responsible for the total management services of a team the produced over \$2m in market place revenue p.a operating within integrated specialist niches consisting of civil and environmental engineers, environmental scientists and planners, and transportation engineers. Team of over 15 professionals. Responsible for all facets of the unit. Team had over doubled in 2 years under my management. Zero staff turnover 2017. I undertook specific large-scale project direction and project manager roles on a wide range of infrastructure projects particularly during planning phase.

### Business Development Manager

2012 to 2013

### Cardno, QLD, Australia

Responsible for the business development and coordination of marketing activities to achieve specific business strategy and plan for a business group of in excess of 70 staff. This role was the first of its kind for the company as they realized that the GFC had diminished their market share. I secured near \$1m of fee contracts within 1st year to keep the team intact.

### Senior Water Resources Engineer / Project Manager

2008 to 2012

### SMEC, QLD, Australia

Responsible for delivery of all flood and stormwater drainage designs and documentation issued from SMEC's Gold Coast Office for both private and public sector clients. I was the QLD state hydraulics leader and formed strong relations with QLD Department of Transport and Main Roads, as well as delivery of many City of Gold Coast projects.

### Gold Coast Water Team Manager and QLD State Surface Water Team Manager

2008 to 2008

### Parsons Brinckerhoff, QLD, Australia

Responsible for the management of 22 professional engineers across QLD relating to water engineering, specifically surface water (flood and stormwater / hydrology / hydraulics – investigations, assessment, design, management). Within the Gold Coast team I grew and established I was also responsible for water supply and sewerage engineers delivering projects for Gold Coast Water.

### Regional Office Manager, Port Macquarie

2006 to 2008

### GHD Pty Ltd, Port Macquarie and Coffs Harbour, NSW, Australia

Responsible for the management of a multidisciplinary team of 12 professionals which includes all day to day operational facets including strategy, business development, recruitment, communications, marketing, and public and client relations. I established the office with an initial staffing of 3. The business had turned over more than \$1m of fees in the first year to \$1.6m in year 2. I created a long-lasting legacy from which rewards are still being realized by this firm by more strong approaches to developing long term and sustainable relationships with regional and local clients.



## MANAGEMENT AND ENGINEERING EMPLOYMENT HISTORY

### Senior Environmental Engineer (Job Manager)

2005 to 2006

### GHD Pty Ltd, Port Macquarie and Coffs Harbour, NSW, Australia

Coastal and Waterways Services - I was specifically employed by GHD to promote services and project manage commissions relating to Floodplains, Estuaries, Coastlines, and Stormwater Engineering and Management on the NSW North Coast between the Great Lakes and Tweed Heads out to the Tablelands of NSW.

### Graduate Engineer (Hydrology/Hydraulics), Senior Engineer, Project Manager, Water Environment Team Leader

2001 to 2005

### Capita Symonds Ltd, Bristol, United Kingdom

Joining Capita Symonds in 2001 (Symonds Group) I was part of the team involved in a number of projects for the Environment Agency. These consist of the National Strategic Flood Risk Management Framework Agreement, in the Midlands and North and South Wessex Areas. We become incumbent catchment flood model experts which lead to numerous private sector projects. The team grew from 3 (director, manager, and me as graduate) to 55 in 4 years. I was responsible for establishing a MOU between our company and WBM Oceanics to convert the UK 1D way to 2D.

I was responsible for Capita Symonds' flood risk assessment, flood mapping, flood warning and hydrometric network design and procurement, and catchment flood management plan developments in Wales, the Midlands and the South West. I lead an integrated team of hydrologists, hydraulic modellers, environmental engineers and GIS specialists (16 staff). I was at the forefront of the company's work in the use of computational flood modelling, and directly responsible for the team's business development, marketing, and tender/proposal preparation.

I created the largest flood model in UK at the time bigger than the River Thames – this was River Tone, Somerset, and 2nd largest being the River Frome Bristol. I wrote modelling guidelines for the Environment Agency and developed a number of GIS based flood and landuse planning decision support systems.

### Graduate Engineer (Hydrometry)

2000 to 2001

### NSW Department of Public Works and Services, Manly Hydraulics Laboratory, Sydney, NSW, Australia

Design and Installation, ongoing maintenance, and data quality control project management of environmental monitoring programs including flood water levels and warning systems, rainfall, sewer gauging, water quality, flood flow, and water sampling (manual and automated).

### Graduate Engineer (Drainage)

2000

### Barry Brothers Specialised Services, Sydney, NSW, Australia

Stormwater and wastewater infrastructure structural / condition inspections and related maintenance project management for Sydney Airport Corporation Ltd.

### Resource Officer

1998 to 1999

### NSW Department of Land and Water Conservation, Grafton, NSW, Australia University Professional Experience

Aerial Photograph Interpretation and field survey for the North Coast Acid Sulfate Soils Drain Mapping Project. This project coupled with developing a digital flood mitigation asset database for Clarence Valley Council. The same work procedures that I developed for the project were deployed across all Northern NSW Catchment floodplains from Taree to Tweed.



## REFERENCES

### Luke Moane

Ex Kempsey Shire Council  
(Acting Manager)

☎ 0407 694 029

✉ lukemoane@gmail.com

### Michael MacKenzie

Rous County Council (Initial Phase - Lismore  
Flood Risk Management Study Project Delivery)

☎ (02) 6623 3800

✉ Michael.mackenzie@rous.nsw.gov.au

### Luke Fayle

Richmond Valley Council  
(Casino Urban Drainage Study Delivery)

☎ 02 6660 0244

✉ luke.fayle@richmondvalley.nsw.gov.au

### Adam Turner

Cardno Gold Coast Manager  
(Employee)

☎ 07 5539 9333

✉ adam.turner@cardno.com.au

### Ian Dinham

President Floodplain Management Association of  
Australia (Industry Collaboration and Leadership)

☎ 0435 946 525

✉ President@floods.org.au

### Nic Denshire

NSW Department of Planning, Industry and  
Environment (Lower Macleay Floodplain Risk  
Management Project Delivery)

☎ 02 6659 8231

✉ nicholas.denshire@environment.nsw.gov.au

## KEY PROJECT EXPERIENCES LIST

The following table list provides demonstrated project experiences across numerous market sectors and industries: Detailed descriptions of projects can be provided upon request.

Project Name	Client/Organisation	Project Role
<b>Local Government Employee</b>		
Lower Macleay Flood Study, Floodplain Risk Management Study and Plan NSW	Kempsey Shire Council	Project Manager
Hat Head Road Upgrade Flood Impact Assessment NSW	Kempsey Shire Council	Project Manager
Ryan's Cut Floodway Clearing and Hydraulic Improvements Modelling and Review of Environmental Factors NSW	Kempsey Shire Council	Project Manager
Kempsey 2nd Bridge Crossing Feasibility – Flood Study NSW	Kempsey Shire Council	Project Manager
Frederickton Stormwater Drainage Study Scoping and Data Review NSW	Kempsey Shire Council	Project Manager
Ocean Street, Southwest Rocks Stormwater Upgrade NSW	Kempsey Shire Council	Project Manager
Kempsey Sports Park Development Proposals in Floodway – Flood and Stormwater Assessments NSW	Kempsey Shire Council	Project Manager
Macleay Flood Warning System Improvements Strategy NSW	Kempsey Shire Council	Project Manager
Jerseyville Bridge and Wharf Street Riverbank Erosion Risk Assessment NSW	Kempsey Shire Council	Project Manager
Smithtown Levee Erosion Risk Assessment NSW	Kempsey Shire Council	Project Manager
Clybucca Wetland Restoration – Drainage Improvements NSW	NSW Government	Project Stakeholder

<b>Local Government</b>		
Benowa Stormwater Drainage Study QLD	City of Gold Coast	Project Director
Paradise Point Stormwater Drainage Study QLD	City of Gold Coast	Project Director
Gold Coast Dams Certification (Acceptable Flood Capacity and Condition – Tallebudgera, Biggera, Loders) QLD	City of Gold Coast	Project Manager
Tallebudgera Dam Upgrade – Landowner Impact Claim – Hydrology Review QLD	City of Gold Coast	Expert Witness
Hinde St Depot Relocation Hydrology Study QLD	City of Gold Coast	Project Manager
Mudgeeraba Cemetery Upgrade – Concept Plan, Preliminary Design and Estimate QLD	City of Gold Coast	Project Manager
Thornlands Urban Structure Plan – Flood Study and Stormwater Management Strategy QLD	Redland Shire Council	Project Modeller and Engineer
Review and Advice on Internal Flood and Stormwater Documentation Update – Australian Rainfall and Runoff 2016 QLD	Toowoomba Regional Council	Project Director
Charlton Wellcamp Enterprise Structure Plan – Stormwater Management Strategy QLD	Toowoomba Regional Council	Project Modeller and Engineer
Griffin Flood Study QLD	Moreton Bay Regional Council	Project Peer Reviewer

## KEY PROJECT EXPERIENCES LIST

Flood Analysis for Cutuli Road Reconstruction QLD	Whitsunday Regional Council	Project Director
Edward Street Stormwater Catchment Management Study QLD	Ipswich City Council	Project Director
Tweed River at Condong – Bank Erosion Protection Assessment and Design NSW	Tweed Shire Council	Project Manager
South Golden Beach Stormwater Drainage Study and Upgrade Options NSW	Byron Shire Council	Project Manager, Modeller and Engineer
Brunswick Valley STP – Stormflow Lagoon Feasibility Study NSW	Byron Shire Council	Project Manager
Belongil Creek Flood Study NSW	Byron Shire Council	Project Peer Reviewer
Lennox Head Stormwater Drainage Study NSW	Ballina Shire Council	Project Peer Reviewer
Hutley Drive Extension EIS – Flood and Stormwater Assessments NSW	Ballina Shire Council	Project Modeller and Engineer
Wollongbar Sports Fields Major Upgrade – Civil, Landscape Design, Irrigation, and Stormwater Design and Construction Support NSW	Ballina Shire Council	Tender Manager to Peer Reviewer
Flood Impact Assessment for the Tatham Road Bridge Replacement NSW	Lismore City Council	Project Modeller and Engineer
Flood Impact Assessment for The Channon Road Bridge Replacement NSW	Lismore City Council	Project Modeller and Engineer
Lismore Airport Floodway Assessment NSW	Lismore City Council	Project Director
Lismore Floodplain Risk Management Study NSW	Rous County Council	Project Manager and Director
South Lismore 2017 Flood Levee Repairs Civil Design and Assessment NSW	Rous County Council	Project Manager and Director
Lismore Airport Area Flood Mitigation Options Assessment NSW	Rous County Council	Project Manager
Lismore Floodplain Risk Management Study and Plan OEH Technical Specification NSW	Rous County Council	Project Director
Casino Urban Drainage Study NSW	Richmond Valley Council	Project Manager and Director
Narrabri CBD Drainage Upgrade – Modelling and Concept Civil Design NSW	Narrabri Shire Council	Project Manager and Director
Taloumbi Rural Drainage Study and Improvement Options NSW	Clarence Valley Council	Project Manager and Director
Boambee Creek Estuary Management Plan NSW	Coffs Harbour City Council	Project Manager
Dunbogan Flood Access Road – Flood Modelling, Environmental Assessment, and Civil Design NSW	Port Macquarie Hastings Council	Project Manager, Modeller and Engineer
Port Macquarie Airport Upgrade Environmental Impact Statement (EIS) NSW - Flood and Stormwater Assessments NSW	Port Macquarie Hastings Council	Project Director
Buller Street and West Haven Stormwater Catchment Studies including Upgrade Civil Design NSW	Port Macquarie Hastings Council	Project Manager
Hindman Street Upgrade Review of Environmental Factors (REF) NSW	Port Macquarie Hastings Council	Project Manager
Pacific Drive, Flynns Beach Shared Path and Boardwalk Structure NSW – Design, Approvals and Investigations	Port Macquarie Hastings Council	Project Manager

## KEY PROJECT EXPERIENCES LIST

State Road Infrastructure		
Freshwater Creek Bridge Planning Study, Mango Hill, QLD	QLD Department of Transport and Main Roads (DTMR)	Drainage and Flood Hydraulics Team Leader
Smith Street and Olsen Avenue Options Analysis > Business Case > Preliminary Design > Detailed Design, Parkwood QLD	QLD Department of Transport and Main Roads (DTMR)	Drainage and Flood Hydraulics Team Leader
Cardwell Range Upgrade, Cardwell, QLD	QLD Department of Transport and Main Roads (DTMR)	Drainage and Flood Hydraulics Team Leader
Dinmore to Goodna Ipswich Motorway Upgrade Project (Origin Alliance), QLD	QLD Department of Transport and Main Roads (DTMR)	Drainage and Flood Hydraulics Team Leader
Logan LGA Pacific Motorway Upgrade – Internal Modal Corridor Planning QLD	QLD Department of Transport and Main Roads (DTMR)	Drainage and Flood Hydraulics Team Leader
Brisbane Gateway Motorway Upgrade North and South plus River Bridge Crossing QLD	QLD Department of Transport and Main Roads (DTMR)	Co. Proof and Verification Engineer
Sunshine Coast Motorway Upgrade and Intermodal Transport Planning QLD	QLD Department of Transport and Main Roads (DTMR)	Drainage and Flood Hydraulics Team Leader
Cunningham Highway Upgrade Business Case – Aratula QLD	QLD Department of Transport and Main Roads (DTMR)	Drainage and Flood Hydraulics Team Leader plus Modeller
Neilsens Road Interchange, Pacific Motorway Upgrade, Gold Coast QLD – Detailed Design and Construction Support	QLD Department of Transport and Main Roads (DTMR)	Proof and Verification Engineer
QLD Department of Transport and Main Roads (DTMR)	QLD Department of Transport and Main Roads (DTMR)	Proof and Verification Engineer
Mudgeeraba Interchange Upgrade QLD	QLD Department of Transport and Main Roads (DTMR)	Proof and Verification Engineer
Northern Expressway (NEXY), Adelaide SA – Detailed Design	South Australian Government	Proof and Verification Engineer
Lismore to Bangalow Road Upgrade NSW – Flood and Drainage	NSW Roads and Maritime Services	Project Director
Banora Point Pacific Motorway Upgrade NSW - Detailed Design and Construction Support	NSW Roads and Traffic Authority	Drainage and Flood Hydraulics Team Reviewer and Construction Queries. Acting full Project Manager (consultant representative) for 4 weeks
Ballina Bypass Pacific Highway – Detailed Design and Construction Support	NSW Roads and Traffic Authority	Independent Reviewer
Tugun By-pass On-maintenance contract compliance - drainage	NSW Roads and Traffic Authority	Project Manager and Engineer
Pacific Highway Upgrade Kempsey to Port Macquarie, NSW – Planning and Concept Design Phase	NSW Roads and Traffic Authority	Project Modeller and Engineer Regional Consultant Team Manager
Pacific Highway Upgrade Kempsey to Port Macquarie, NSW – Planning and Concept Design Phase	NSW Roads and Traffic Authority	Project Manager and Engineer

## KEY PROJECT EXPERIENCES LIST

Utilities (Power, Water, Sewer)		
Mudgeeraba Zone Sub-station Upgrade QLD – Civil Design	Powerlink	Drainage and Flood Hydraulics Team Leader
Griffin Zone Sub-station Upgrade QLD – Civil Design	Powerlink	Drainage and Flood Hydraulics Team Leader
Buladelah Zone Sub-station Upgrade NSW – Civil Design	Country Energy	Project Manager
Swallow Road, Cairns Zone Sub-station – Civil Design QLD	Ergon Energy / Bovis Lend Lease Consulting	Project Manager and Director
Ingham Road, Townsville Zone Sub-station – Civil Design QLD	Ergon Energy / Bovis Lend Lease Consulting	Project Manager and Director
Rockhampton Zone Substation – Civil Design QLD	Ergon Energy / Bovis Lend Lease Consulting	Project Manager and Director
Crowdy Head Sewerage Augmentation Scheme Environmental Impact Statement (EIS), Crowdy Head NSW	MidCoast Water	Project Director
SPS WA11 and WA15 Rising Mains - Design and Documentation - Peer Review, Logan City QLD	Logan Water	Project Manager
Cedar Grove WWTP Wetland QLD – System Hydrodynamic Modelling and RPEQ Civil Design Certification	Logan Water Alliance /EcoTeam	Project Director and Certifier
1 Volante Crescent Collapsed Sewer Main – Site Investigations, Mermaid Waters QLD	Gold Coast Water	Project Manager
Cassowary Drive - SS1 Sewerage Pumping Station Main Rehabilitation – Site Investigations, Burleigh Waters QLD.	Gold Coast Water	Project Manager
Biggera Dam, Gold Coast QLD – Investigations and Concept Upgrade Options (Post Condition Survey)	Gold Coast Water	Project Manager
Wyaralong Dam, Logan QLD – Upgrade and Access Road Construction Support	Origin Alliance	Project Engineer

Defence		
Townsville RAAF Base Upgrade – Flood Study and Civil Design of Mitigation Infrastructure QLD	Defence/Serco Sodexo	Project Manager

Education		
Discovery Rise James Cook University QLD \$1b Expansion – Flood Studies, and Stormwater Management Plan to Civil Design	James Cook University	Project Manager
Amity Road, Pimpama QLD – High School Expansion – Flood Assessment, Design, Approvals and Certification	QLD Government	Project Director

Rail		
Herons Creek Industrial Precinct and Rail Freight Spur, Port Macquarie, NSW	Lawlor Services/ARTC	Project Manager
Yerrongipily Rail Yard Expansion QLD – Flood and Stormwater Assessments	Queensland Rail	Project Manager

## KEY PROJECT EXPERIENCES LIST

Casino Area North Coast Line Timber Bridge Replacements NSW – Flood Hydraulic Assessments	Australian Rail Track Corporation (ARTC)	Project Manager
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### Mining

Ulan West Coal Mine – Rehabilitation – Clean Water System Design, NSW – Drainage and Civil Earthworks of Large Dams and Channels	XSTRATA	Drainage and Hydraulics Team Leader
Stormwater Management Plan - Cannington Port Facilities, Townsville QLD – Spill Incident Investigation, Upgrade Water Balance, Water Quality, and Stormwater Drainage Modelling and Design	BHP Billiton	Project Manager
Yurbi Mine Transit Facility Cloncurry QLD - Upgrade Water Balance, Water Quality, and Stormwater Drainage Modelling and Design	BHP Billiton	Project Manager

### Land and Urban Development

Hamilton PDA Brisbane QLD – Stormwater and Flood Management Strategy during Planning Phase	QLD Government	Hydrology and Hydraulics Team Leader
Foxwell Rd, Pimpama QLD Industrial 15 lot Sub-division – Flood and Stormwater Assessments	Foxwell No.1 Pty Ltd	Project Manager
Rutherford Industrial 25 lot Subdivision, Maitland, NSW – Flood and Stormwater Assessments	Stannic Securities	Project Manager
Colgate Site Redevelopment to Major Industrial Subdivision, Arundel QLD – Civil, Traffic, Environmental, Stormwater – Due Diligence	Gordon Corp	Project Manager of entire Consultant Group
Numerous Senior Living Resort and Aged Care Facility Development Applications in QLD and NSW – Due Diligence, Development Application and Detailed Design Phases – Civil, Environmental, Flood, Stormwater, Traffic, and Environmental	Palm Lake Works	Project Manager and Director
Movie World and Top Golf Facility Developments – Flood and Stormwater Assessments, Design, Approvals and Certification	Village Roadshow	Client Relationship Manager
Numerous Senior Living Resort and Aged Care Facility Development Applications in QLD and NSW – Due Diligence, Application and Detailed Design Phases – Flood, Stormwater Inputs	Oak Tree	Project Director
Logan Complex QLD - Post Construction Flood and Drainage Certification and Works	Ruby Gardens	Project Manager
Green Heart Gardens (pn +10,000) mixed use low to high rise Development Proposal, Merrimac QLD – Due Diligence and Preliminary MCU Application – Civil, Flood, Stormwater, Environmental. Traffic	Mr Clive Palmer	Project Director
Robina Transit (pn +5,000) mixed use low to high rise Development Proposal, Merrimac QLD – Due Diligence and Preliminary MCU Application – Civil, Flood, Stormwater, Environmental. Traffic	Mr Clive Palmer	Project Manager and Director
VUE Terraces, Stadium Drive, Robina QLD – Flood, Stormwater, Coastal Assessments, Design, Approvals and Certifications	Robina Projects Australia	Project Manager and Director
The Lakes, Mermaid Waters QLD Mixed Use Major Development – Flood and Stormwater Assessments, Design, Approvals and Certification	Sunland	Project Director



## KEY PROJECT EXPERIENCES LIST

Major Gold Coast Golf Course Redevelopment QLD – Due Diligence for Civil, Flood, Stormwater Management	PASK	Project Director
Gainsborough Greens Major Residential +2000 lots Sub-division QLD – Flood Assessments, Design, Approvals and Certification	MIRVAC	Project Manager
Nerang Broadbeach Road, Carrara QLD, Twin Medium Rise Residential Buildings – DA Phase Civil, Water, Flood, Stormwater and Traffic	Private via Place Design Group	Project Manager
Linkway Mudgeeraba QLD Major Development Proposal – Due Diligence Civil, Water, Environmental, Structural, Flood, Stormwater, Traffic, and Environment	Private	Project Manager
Pimpama QLD Residential +100 lot Sub-division - Due Diligence to Flood and Stormwater Assessments, Design, Approvals and Certification	Villaworld	Project Manager and Director
Narangba Heights Residential +1000 lots Sub-division QLD - Stormwater Assessments, Design, Approvals and Certification	Oxmar Properties	Project Manager
Near Adelaide Major Mixed Use +10,000 lot Sub-division QLD – Due Diligence Stormwater Management and Water Balance Assessment	Walker Corporation	Project Manager
Near Burpengary Major Mixed Use +20,000 lot Sub-division QLD - Due Diligence Flood, Stormwater Management and Water Balance Assessment	Lend Lease	Project Manager
Chinderah Greyhound Facility NSW – Due Diligence Flood, Stormwater, Civil, Traffic	Private via DAC	Project Manager
Terranora Residential +50 lot Sub-division NSW – DA Stormwater Management Plan	SGC Urban	Project Manager
West Kingscliff Residential +100 lot Sub-division NSW – Due Diligence Flood and Stormwater	Gale Investments	Project Director
Tanglewood NSW Major Mixed Use Development – Due Diligence Civil, Flood, Stormwater, Environment	Private	Project Manager
Altitude Terranora Major Mixed Use Development NSW – Due Diligence and DA Phase Stormwater Assessments	Newlands/Metricon	Project Manager
Iluka Residential +100 lots Sub-division – Stormwater Management Plan	Private via Ocean Park Consulting	Project Manager
Residential +100 lot Subdivision Development Proposal adjacent to Double Crossing Creek and upstream of Hearn's Lake, Sandy Beach NSW – Flood and Stormwater Assessments, Design and Approvals	Sapphire Beach Properties	Project Director
Residential +200 lot Subdivision Development Proposal adjacent to Sapphire Beach NSW – Flood and Stormwater Assessments, Design and Approvals	Sapphire Beach Properties	Project Modeller, Engineer and Manager

**Within SEQ in excess of 300 additional projects in private sector relating to flood and stormwater drainage**

**Within Northern NSW in excess of 100 additional projects in private sector relating to flood and stormwater drainage**