Bill Johnson

B.Eng (hons): Civil
MEngSC(Civ/Env)
MIEAustralia
CPEng
RPEQ / RPEV
CPESC / RSP ESC
CESSWI

Director and Principal Civil Engineer

SEEC
Strategic Environmental and Engineering Consulting

Bill is a civil engineer with over 35 years' experience in the water engineering and infrastructure fields. He has skills in water management, drainage, water resources, water quality and flood modelling.

Bill also has experience in hydrology and hydraulics (both open channel and pipe flow). He has designed stormwater systems including traditional and Water Sensitive Urban Design elements, pipeline and pumping stations, and sedimentation dams. He has wide experience in planning and detailed design of longitudinal drainage, cross drainage structures and associated outlet works, water quality treatment measures, including detention basins and wetlands, and flood modelling. He has managed multi-disciplinary design teams involving road design to solve complex design problems.

He has undertaken the hydraulic review of numerous Erosion and Sediment Control Plans and undertaken independent assessments of erosion and sediment control works and advised mitigation measures for poorly functioning erosion and sediment control measures, creek bank erosion and gully erosion.

Bill is SEEC's Principal Civil Engineer and one of our Principal Experts in Surface Water Management, Flood Assessment & Management, Reticulated Water and Sewage and Erosion and Sediment Control.

Qualifications

- Master of Engineering Science (Civil Engineering — Environment), Queensland University of Technology
- Bachelor of Engineering (Honours) (Civil), Queensland University of Technology
- Certified Professional in Erosion and Sediment Control (CPESC #7508)
- Registered Soil Practitioner – Erosion and Sediment Control (IECA and Soil Science Australia)
- Member of the International Erosion Control Association (IECA)
- Chartered Professional Engineer; National Professional Engineers Register; Registered Professional Engineer of Queensland (RPEQ No. 6728)

Areas of Expertise

- Longitudinal and cross drainage design
- Hydrological studies
- Hydraulic analysis of stormwater underground and overland systems
- 1D and 2D flood modelling
- Stormwater management
- MUSIC modelling
- Erosion mitigation and rehabilitation
- Sediment and pollutant control
- Sewerage Design
- Reticulated Water Design
- Water Cycle Management Plans

Recent Project Examples

Kowanyama Drainage and Flood Studies (2025-2026). KASC. Undertook a drainage study of the township of Kowanyama with conceptual design to improve existing flood prone areas. Flood study of main access roads in and out of town with conceptual crossing upgrades to improve immunity.

Marrangaroo Quarry (2024-2026). Metromix Pty Ltd. Updated the site water management system to account for the extended areas of disturbance and demonstrate a neutral or beneficial effect on water quality. Included a hydraulic assessment of the final landform.

Cleaner Road Runoff Project (2021 -2025). Local Government Association of Queensland. Undertaking research to determine the potential impact to the Great Barrier Reef from fine sediment from unsealed road runoff. Includes in field set-up of monitoring equipment and analysis of samples from 5 different local government areas.

M1 Burleigh to Palm Beach Highway Upgrade Erosion and Sediment Control Plan (2025). SMA Infrastructure. Erosion and sediment control plan for the upgrade of the highway at Oyster Creek including site inspections to review the changing catchment characteristics and site constraints for proposed treatment measures.

Ansonia Apartment Drainage Outfall (2025). Body Corporate. Reviewed the existing drainage issue at the apartment building and provided four potential upgrade options including on site detention and direct connections to existing mains.

Eastern Freeway Burke to Tram (2025). North East Link South Alliance. Review of progressive Soil Erosion Drainage Management Plans as construction progresses. Includes typical road construction and realignment of creeks around sensitive wetland areas.

Pitt Town Bypass – Temp culvert crossing design (2025). Abergeldie. Design of two temporary culvert crossings. Assessed existing flood modelling reports to determine an appropriate flow rate and design temporary culverts using HY-8. Developed a sketch showing required installation levels and rock armouring to minimise damage during events.

Garfield Road East Upgrade Project (2026). Turnbull Engineering. Undertook the assessment of impacts of construction phase sediment basins on water quality during the construction of the road upgrade project.

Douglas Shire Council – WSUD Assessment (2026). Douglas Shire Council. Review of Council's current WSUD assets which consist of trash racks, GPTS, vegetated swales and ponds. Held a workshop with key Council staff on potential options for adoption of more WSUD assets and how that may look for Douglas Shire.

Monaro Roack Quarry Erosion and Sediment Control Plan (2024-2026). Monaro Rock Pty Ltd. Erosion and sediment control plan for the proposed rock quarry. Included erosion hazard assessment and sizing of sediment basins. A water balance was completed in Goldsim to minimise spill events and maximise reuse of on-site water.

4-Day Erosion and Sediment Control Workshops (Ongoing). SEEC presents a comprehensive 4-day workshops about erosion and sediment control on construction sites. Present days 3 and 4 focusing on water management on construction sites including sediment basin and channel design. Recent workshops in Melbourne and Brisbane.

Kidston Wind Project ERA (2025). NGH Consulting. Review of an Erosion Risk Assessment for the proposed wind farm which included a RUSLE analysis and mapping of erosion hazards in accordance with State Code 23.

Eastern Freeway Burke to Tram (2025). North East Link South Alliance. Review of progressive Soil Erosion Drainage Management Plans as construction progresses. Includes typical road construction and realignment of creeks around sensitive wetland areas.

Proposed Industrial Subdivision Wilson Drive, Marulan (2025). Citywest Corp P/L. Undertook a surface water and water cycle management plan for a proposed industrial subdivision at Marulan. Developed a TUFLOW model of the existing natural waterway and the proposed works to identify potential impacts to adjacent landowners. Sized detention basins to mitigate increases in peak flow.

Contact Details

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