



DBA Hydraulics



Statement of Capabilities

Introduction

David Buckle & Associates (NSW) Pty. Ltd. has provided specialist hydraulic services consulting to a wide range of clients for over 20 years. During that time, we have enjoyed steady growth and completed a wide variety of projects. The principal, David Buckle, has over 35 years' experience in the building services industry and has used his technical and communication skills to participate in and lead design teams on numerous projects for commercial, community, defence, educational, environmental, health, industrial, mining, infrastructure, residential, retail and recreational projects.

We have established relationships with many senior industry players, including developers, architects, our consulting peers, building owners, occupiers and the trade. At every level of our industry we have the experience and have established relationships necessary to pursue our client's best interests.

Personnel

DBA Hydraulics retains a well-balanced team of senior designers, with many years' experience, blended with more recently graduated designers and environmental scientists who have the benefits of specialist diploma and university degree courses. Individual CV's are available for each design team member involved with a specific project.

Management Profiles

Managing Director



David Buckle

David has spent over 20 years as the Managing Director of DBA. During this time, he has completed many challenging and prestigious hydraulic services projects for a wide spectrum of clients. David has developed particular expertise in project co-ordination and control, systems master planning, whole of life systems analysis and team leadership for large and complex projects. David has overall responsibility for delivery of cost effective design solutions within project parameters.

Associate Director



Len Hutton

Len Hutton has over 30 years' experience in the hydraulics and fire protection industry and in excess of 25 years as a designer and manager of hydraulics and fire protection design teams for various organisations. While Len has a background in all areas of hydraulic services design, he has developed particular expertise in the fields of roofing and gutter designs, hydrocarbon fire protection and suppression systems, campus or site fire protection infrastructure, stadia water supply systems, water harvesting and rainfall capture technologies and reagent grade water supply systems.



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Experience and Range of Projects

DBA Hydraulics has been involved with and has gained experience from an extremely broad range of projects over the years. These project types include:

- ✦ High and Low Rise Commercial and Residential Developments.
- ✦ A wide range of Community and Educational Projects.
- ✦ Hospitals, Nursing Homes, Hostels and Retirement Villages.
- ✦ Retail Developments including Shopping Centres and Department Stores.
- ✦ Industrial Developments, Factories, Warehouses, Distribution Centres.
- ✦ Mines and Support Facilities.
- ✦ Energy Generation and Distribution Facilities.
- ✦ Local and State Government Developments.
- ✦ High Rise Hotel Developments and Refurbishments.
- ✦ Sporting and Miscellaneous Venues.

Design Services

DBA Hydraulics provides full design, documentation, contract administration and supervision of over 20 individual plumbing services. The more common of these are:

- ✦ Sanitary Plumbing and Drainage.
- ✦ Trade Waste Plumbing and Drainage.
- ✦ Stormwater Collection, Detention, Harvesting, Holding and Reuse.
- ✦ Subsoil and Planter Drainage.
- ✦ Rainwater Plumbing, Box Gutter and Downpipe Design.
- ✦ Syphonic Drainage Specification and Co-ordination.
- ✦ Domestic Hot, Cold and Warm Water.
- ✦ Filtered Hot, Cold and Warm Water.
- ✦ Natural and Bottled Gas.
- ✦ Fire Hydrants and Hose Reels.

Sustainability Services

DBA Hydraulics provides a variety of services that relate specifically to monitoring, analysis, reporting and design for sustainability. These services include:

- ✦ Flexible water consumption modelling tools.
- ✦ Tailored sustainability reporting tools.
- ✦ Water balance.
- ✦ Water network monitoring.
- ✦ Water audit.
- ✦ Water Savings Action Plan.
- ✦ Realistic water saving targets.
- ✦ Cost-effective water saving initiatives.
- ✦ Water network modelling.
- ✦ Water network pressure and flow advice.



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Summary of Notable Projects

The following projects have been completed by the Directors and Staff of David Buckle & Associates (NSW) Pty. Ltd. The complete list is available on request.

Tourism & Recreation Projects

Auburn Lidcombe Business Club	Padstow RSL Club Alterations
Bathurst Goldfields Accommodation & Museum	Penrith Lakes Regatta Centre
Berry's Bay Marina Development	Planet Hollywood Sydney
Bora Bora Island Resort	Pokolbin - Resort Masterplan
Brooklyn Marina - D&C	Port Macquarie RSL Club Alterations
Burwood RSL Club Redevelopment	Qantas Flight Catering Mascot
Darling Harbour Hotel - Design Review	Randwick Racecourse Infrastructure
Dharruk Building Workers Club Alterations	Randwick Racecourse Refurbishment
Dubbo RSL Pool and Health Club	Rockley Eco Tourism development
Dubbo RSL Refurbishment	Seven Hills RSL Youth Club
Earlwood Bardwell Park RSL Club	Singleton Heights RSL
Harold Park Paceway Grandstand	SOPA Aquatic Centre CW Audit
Jenolan Caves House Refurbishment	SOPA Aquatic Centre Backwash
Jubilee Oval - Grandstand D&C	SOPA Athletic & Aquatic Remedial
Keswick Island Beach Club	SOPA Water Conservation Projects
Kuala Lumpur Grand Prix Stand Roof	Stadium Aust Recycled Water report
Kurrajong Resort	Sutherland Trade Union Club
Lake Ainsworth Recreation Hall	Sydney International Equestrian Centre
Lenox Head Lake Keepit Recreation Hall	Sydney Olympic Stadium
McLachlan Reserve - Baseball Field	Sydney Olympics Athletes Village
Mt Panorama Redevelopment Bathurst	Sydney Opera House Fire Escape
Mulwala Water Ski Club	Sydney Opera House Lower Forecourt
Newcastle University Pool and Recreation Bld	Thredbo Accommodation Units
Newcastle Workers Club Modifications	Top of The Town Motel Newcastle
Olympic Shooting Centre	White Bay Passenger Terminal

Health Care Projects

5 Victorian Nursing Homes	Mayfield Hostel
Alan Walker Village Block P	Men's Hostel Surry Hills
Albury Hospital	Mullauna Retirement Village Blacktown
Aminya Hostel	Orana Hostel Point Clare
Blaxland Hostel	Ray Ward Lodge Harbord
Camden Hospital	Salvation Army Dee Why - Aged care
Campbelltown Hospital	Shalom 8 Nursing Home Marsfield
Campbelltown Hospital Waratah House	Theatre 8 Sanatorium Hospital
Dorothy Henderson Lodge Marsfield	United Dental Hospital
First Field Hospital	Waldock Nursing Home
Galston Medical Centre	War Veterans Fire Upgrade
Garrawarra Hospital	Warena Hostel Bangor
Kara Hostel	Wellington Hospital
Lisarow Retirement Village	Williams Lodge Glebe
Lithgow Hospital	Yallambie Nursing Home Carlingford





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Summary of Notable Projects (continued)

Community Projects

Bathurst Cathedral Bell Tower	Holroyd Council Maintenance Building
Bathurst Gaol	Holroyd Park Water Feature
Blacktown Council Civic Centre	John Maroney Correctional Centre
Blacktown SES	Junee Gaol HW Design
Cessnock Gaol	Marrickville Council Maintenance Bldgs
Cobham Remand Centre	Multi-Purpose Centre Bexley
Dept Social Security Marrickville	Orange Regional Music Centre
Emu Plains Detention Centre	RAAFA Retirement Village
Foley Park Redevelopment Glebe	Reflection Pond Hyde Park
Free Wesleyan Church of Tonga Glendenning	St Barnabas Broadway
Glenmore Park Anglican Church	Tamworth Gaol
Hazlehurst Art Gallery Miranda	Uniting Church Hall Lakemba

Education Projects

Arndell Anglican College various	Muswellbrook Public School
Baulkham Hills TAFE	Nowra Anglican College library
Claremont Anglican College various	Nowra TAFE
CSU Bathurst Student Hot Water design	OLMC Parramatta-Capworks 2011
CSU Bathurst Satellite Plant Rooms	Oran Park Anglican College various
CSU Wagga Student Hot Water design	Penrith Anglican College various
Duntroon Bldg A31&32 HW mods	Queanbeyan Tafe ITC
Griffith TAFE	Richard Johnson Anglican School various
Gundagai High School Stage 2	Rosebank College Bldg D
Harbord Public School	Rouse Hill Anglican College various
Japanese School Terry Hills	Shellharbour Anglican College various
Kalinda School Griffith bid phase	Singleton Heights Public School
Karabar High School ITC	St Andrews Cathedral School Access
Lawson Public School	St Josephs School
Lithgow TAFE	St Lukes Anglican College Dee Why
Liverpool Tafe Block G	St Vincent's College Accommodation
Loftus TAFE Stage 3	Syd Uni Mackie Building refurb
Loquat Valley Anglican School various	Sydney Uni Madsen Building refurb
Macquarie Uni Cochlear Site Services	Sydney Uni Main Quad Bldgs refurb
Macquarie Uni Existing Services documentation	Sydney Uni McLaurin Hall refurb
Macquarie Uni Fire Hydrant Review	Sydney Uni Student Records refurb
Macquarie Uni Gas Network Plans	Sydney Uni Vice Chancellor refurb
Macquarie Uni Station South Precinct E	Tangara School for Girls
Macquarie Uni Water Modelling	Waverly College Technology Arts Building
Macquarie Uni Water Sustainability	West Hoxton Catholic College
Mamre Anglican School MP Hall	Wollemi College Werrington
Molong Central School	Young Tafe

Retail Projects

99 Mount St Aldi Store	BiLo Aurora Rollout - 4151 Merimbula
Auburn Mega Mall	BiLo Aurora Rollout - 4155 Eden
Ballina Retail Development	BiLo Aurora Rollout - 4632 Morisset
Bankstown Square DD Report	Birkenhead Point FH remedial work
Big W Bonnyrigg Plaza Refurb	Byron Bay Shopping Centre
Big W Campsie Refurb	Castle Hill Homemakers Cntr
Big W Carnes Hill Refurb	Cessnock Bulky Goods 2,3&4
Big W Cessnock	CML Store 4118 Jewelstown Refurb
Big W Jesmond Refurb	CML Store 4604 Market Town Refurb
Big W Karingal Hub Refurb	CML Store 797 Warriewood Refurb
Big W Mt Hutton Refurb	CML Store 864 Wallsend Refurb
Big W Nth Albury Refurb	Coles Morisset Shopping Cntr
Big W Orange Refurb	Griffin Plaza Shopping Centre



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Summary of Notable Projects (continued)

Retail Projects (continued)

Big W Parabanks Refurb	Lithgow Valley Plaza
Big W Parkes	Myer Redevelopment Market St
Big W Wangaratta	Nuggets Crossing Shopping Centre
Big W Wetherill Pk Refurb	Riverstone Shopping Centre
BiLo Aurora Rollout - 4129 Moss Vale	Stockland Mall Earlville
BiLo Aurora Rollout - 4131 Narellan	Tuggerah Supa Centa
BiLo Aurora Rollout - 4136 Lisarow	Westfield Shopping Cntr Hornsby
BiLo Aurora Rollout - 4143 Thirroul	Woolworths Highlands Marketplace
BiLo Aurora Rollout - 4146 Helensburg	Woolworths Jerrabomberra Refurb
BiLo Aurora Rollout - 4148 Parkes	Woolworths Kippax Refurb
BiLo Aurora Rollout - 4150 Berkeley	Woolworths Rutherford Marketplace

Residential Projects

100-102 Belmore St Meadowbank	41-43 Montgomery St Kogarah
106 Oaks Ave Dee Why	42 Telegraph Rd Pymble
11 Gladwood Gardens Double Bay	44-46 Bland St Ashfield
11-13 Holborn Ave Dee Why	5 O'Keefe Crescent, Eastwood
126 Ray Rd Epping	51 Western Cr Gladesville
12A Rosemead Rd Hornsby	53 Cormiston Avenue Concord
1-3 Beresford Road Strathfield	544-546 Sydney Rd Seaforth
13 Lagoon St Narrabeen	55 Kensington Road Kensington
135a Park Ave Ashfield	6 Victoria pde swcert
139-141 Bettington Road Dundas	60-62 Old Pittwater Rd
14 Bass St Putney	66 Park Rd Mona Vale
14 Royston St Darlinghurst	6-8 Lawrence St Harbord
143 Military Rd Neutral Bay	68-70 Park St Mona Vale
143-147 Parramatta Rd	691 Barrenjoey Road Avalon
15 Cairo St Cammeray	71 Undercliff St Harbord OSD
1-5 Collaroy Street Collaroy	781 Pittwater Rd Dee Why
15 Park Ave Ashfield	79 Pymble Ave OSD Alts
1-5 The Crescent Strathfield	8 Harkness St Woolarah
18 First Ave Epping	84-100 Belmore Street Meadowbank
18a Bradleys Head Rd Mosman	9-15 Central Ave Manly
2 Addison Rd Manly	99 Lilyfield Rd Gas design
2 Dawson St Epping	Alpha House-Residential development
2 The Point Rd Woolwich	Auburn Central Development
20 Bond St Insp & Report	Ballast Point DA Submission
221 Stanmore Rd	Canberra Public Housing HW
28 Alexander St Manly DA	Christophorus House
28 Foveaux St Surry Hills	375 Pac Hwy Hornsby
28 May Rd Narraweena	Dept Housing Waitara Gas
2A Holt St Double Bay	Highgate Apartments
3 Pains Rd Hunters Hill	Kemps Creek septic
32-34 Mons Rd Westmead	Kodak House Redevelopment Annandale
34-38 Victoria Rd Manly	Kogarah Town Centre
34a Middle Harbour Rd Lindfield	Lakeside Towers Chipping Norton
37 Oaks Ave Dee Why	Olympic Village Athlete's Accom
371 Barrenjoey Rd Avalon	Pensioner Housing Units Salamander Bay
375 The Entrance Rd Erina	Point Street Bulli - Dept of Housing
38 Cecil St Gordon	Regent Hotel Sydney – Refurbishment
392 Bobbin Head Rd Turramurra	Rockley Emporium
4 Campbell Pde Manly Vale	Royal Women's Hospital – Masterplan
4 Campbell Rd Kenthurst	Scenic Hills Riding Ranch - Water storage
4 Fielding Street Collaroy	The Burgess - Residential development
4 The Strand Dee Why	Wybalena Apartments Thredbo



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Summary of Notable Projects (continued)

Commercial Projects

G+T Chambers 73a William St Bathurst	Commonwealth Bank Burwood
1 Mona Vale Rd Mona Vale	Commonwealth Bank Hurstville
10 Smith Street Parramatta - Prospect Electricity	Commonwealth Bank Parramatta
100 Harris St Sydney - CCH	David Jones Expert Witness
126 Church St Parramatta	Diversey Chemicals Laboratory
241 Darlinghurst Rd	Enacon Carpark
30-32 Bowden St Alexandria	Erby Place Carpark
30-40 Harcourt Pde Rosebery - Trent Nathan	Honeywell Bull
33-35 Allyene St Chatswood	John Holland House
351-353 Parramatta Rd Leichhardt	Kareela Reserve Doonside
36 Gosbell Street Paddington Photo Lab	Keppel Street Barthurst
4 Narabang Way Belrose	Lidcombe Media Village
580 George Street Sydney	Macquarie University Carpark F3
615 Military Rd Mosman	Maestri Towers Expert Witness
68 Pitt Street, Sydney	Mt Druitt Markettown Due Diligence
9-11 Wollongong Rd Arncliffe	Nestle City commercial fit out
99 Mount St Aldi Stores	Nestle Rhodes commercial fit out
Astor Terrace	Paint Industries Office & Laboratory
Auburn Central Auburn	Parramatta Carpark
Bigge Street Liverpool	South Parade Auburn
Caterair Flight Catering Facility Mascot	Sydney Market Authority
Chatswood Warehouse Development	The Orpheum, Cremorne
City View Estate Buildings A,B&C	Transgrid Sydney L24 Executive Fitout

Industrial Projects

1 Benelong Rd Homebush Redevelopment	Hangar 339
10 Brunner Road Chullora	Hill Rd Homebush Bay
1-7 Unwin Bridge Rd	Hill Wine Group Silverwater
2 Factory St Clyde	HMAS Watson Pool
26 Bourke St Alexandria FH	Holbeche Rd Arndell Park
28-32 Bowden St Alexandria	Holsworthy Masterplan
287 Victoria Rd Rydalmere	Holsworthy School of Military Engineering
30-32 Bowden St Alexandria	Hulpro Factory Berkerley Vale
30-40 Harcourt Pde Rosebery	JUHI Sydney Airport Jet Fuel Storage
33a Holbeche Rd Arndell Park	Leichardt Bus Depot
40 Beaumont Rd Mt Kuringai	Mactan Power Station
42 Lisbon sty Villawood	Manchester Rd Auburn report
9 Chicago Ave Blacktown	Masinloc Power Station D&C
ABC Site Gore Hill - Masterplan	Metrocentre Rydalmere
Aerosols Australia Factory	Mt Stewart Power Station
Air Liquide Botany	Northern Gas Turbines Fire
Alcan Kurri Kurri	Park-Tek Factory Upgrade
Ampol Site Botany	Pioneer Plasterboard Factory Melbourne
Ansto various	Pioneer Plasterboard Factory Sydney
APM Warehouse	Port Waratah Coal Services Berth K6
AstraZeneca HW Mods	Project Jupiter Kingsgrove
Auburn Substation	Project Wedgetail
AWT Jacks Gully	Prospect Water Filtration Plant
Bathurst Saleyards	PWCS Reclaimer
BBQ Galore Warehouse	Rankine Park Laundry
BHP Whyalla Risk Reduction	Redbank Power Station
Bradford Insulation Fibreglass Bat Factory	Regents Park Industrial Estate
Cabras 4 Power Station Guam	Ricegrowers Fire Services
Caterair Flight Catering Facility Mascot	Richmond Building 176 RAAF
Chullora Skip Bin Facility	Rockdale Feedlots
Coca Cola - Water Mains Upgrade	Rod & Bar Mill BHP Newcastle
Elgas- Factory and Office Development	Shell Canberra Terminal Upgrade



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Summary of Notable Projects (continued)

Industrial Projects (continued)

Envirolab 12 Ashley St Chatswood ESSO Tankage - Fuel Farm Upgrade Fiji Patrol Boat Base Franklins Distribution Centre Chullora Garden Island various Gore Bay Fuel Terminal Fire Upgrade	Shell Tamworth Terminal Upgrade Victoria Barracks Wallerawang Power Station War Gaming Facilities Woolworths Warehouse Acacia Ridge Woolworths Warehouse Moorebank
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Infrastructure Projects

Ansto Sampling Pit Artarmon Station Upgrade Ashfield Station Upgrade Ashley Pressure Sewer Scheme Auburn & Carlton Station Upgrades Balmain Wharf Bankstown Station Bernie Wharf Burwood Station Upgrade Canons Ck & Warneet Pressure Sewer Scheme Central Station City North Substation City West Wharf Country Energy Boambee Country Energy Hallidays Point Country Energy Macksville Country Energy Raleigh Country Energy Tweed Heads Eagle Farm Pump Station East Basin Wharf Newcastle Energy Aust Chatswood Depot Energy Aust Haymarket Substation Energy Aust Homebush ST Substation Energy Aust Hornsby Depot Energy Aust Hurstville North ZS Energy Aust Rockdale ZS Energy Aust Waverley Substation Enfield Delec Maintenance Facility Upgrade FAC Third Terminal Gore Bay Liquid Fuel Berth Fire protection Guam Cabras Power Station Integral Anzac Village ZS Integral Camelia ZS Integral Campbelltown ZS Integral Castle Hill Cecil St ZS Integral Granville ZS	Integral Guilford ZS Integral Moss Vale FSC Integral Mungarie Park ZS Integral Narellan FSC Integral Nowra FSC Integral Nowra FSC Integral Nowra ZS Integral Rouse Hill ZS Integral Shellharbour FSC Integral Tomerong West TS Integral West Parramatta ZS Integral Whalan ZS Integral Windsor ZS Kingsford Smith Airport Domestic Terminal Upgrade Kingsford Smith Airport Fire Services Kingsford Smith Airport Heliport - F&H Leumeah Station Upgrade Lewisham Station Upgrade M5 East Tunnel design review Macquarie Park Substation Minto Station Upgrade Newcastle Wharf Port Waratah Coal Loader Berth Port Waratah Loco Maintenance Prospect Water Plant QANTAS Seamless Transfer Queen Street Carpark Sydney Olympic Park Water Reclaim Tamworth Hangar Tamworth Hangar - Design check Telstra Haymarket Tenancy Tingha Pressure Sewer Scheme Wagga Pressure Sewer Scheme Warringah Sub Stn FH test Warringah Substation
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Mining Projects

Metropolitan Collieries dust suppression Ranger Uranium WTP Hunter Valley No 1 - Coal Mine Cambervale Mine Springvale Mine-Pit Top Buildings F&H design United Colliery South Blackwater Mine - Fire Report	Saxonvale Colliery Ravensworth Mine Maintenance Facilities Springvale Tunnel Fire protection North Parkes Ulan Mine Mt Owen Mine Olympic Dam
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