



Modern Best Practice for an Indoor 25m Pool Complex

Right in the red-hot centre of Australia

With an expert design, Crystal Pools was selected via a vigorous open-competitive tender process to construct an 8 Lane 25m FINA compliant competition pool with an adjacent Multi-Purpose (LTS/leisure pool).

Like all successful aquatic redevelopments, the new Stage 2 (indoor) facilities supplement the town's existing outdoor pools, to offer a range of new and varied program needs throughout the whole year. The Multi-Purpose (LTS/leisure) pool incorporates a zero-level beach entry, a 4 Lane x 20m lap zone, a learn-to-swim/exercise zone, a disabled access ramp, an in-pool spa and a variable speed river ride. To add a further element of fun and excitement the facility also includes single and double loop water slides.

The tightly specified pool construction consumed some 900m³ of concrete with 76 tonnes of reinforcing steel. With its clever design, no pool piping was installed external of any concrete pool structures. This design feature is unique to formed & poured pools and is directly related to the attainment of a 50 year service life.

Both of the wet-deck pools incorporated generously graded soiled water collection gutters with the capacity to absorb bather surge and also process the total flow from each PWT plant. This attribute is unique to formed and poured pool construction.

In keeping with the projects very high "green" credentials (with the use of extensive solar heating), Atlas® Regenerative Precoat Pressure Filters were specified on the basis of the Principal's strong commitment to "water minimisation". In combination with high intensity, medium pressure UV, the 2 micron retention of the Atlas® filters provided outstanding water quality, free of any traditional chloramines issues.

This project confirms that working in Australia's centre is not for the faint hearted. Alice Springs is renowned for hot summer temperatures which reach a maximum average of 35°C between November and March. Winter nights can however, dip below zero. If it wasn't for the fact that CRYSTAL POOLS has vast experience of over 54 years, the obvious logistical issues associated with this project may have created difficulty and financial hardship. This was not the case. Crystal's scope of work was delivered with the aid of carefully prepared check lists. Through a very methodical approach, Crystal's works were consistently delivered "on time" and in strict accordance with all contract requirements.



POOL AND PLANT DETAILS

Project Name	Alice Springs Aquatic & Leisure Centre (Stage 2)
Official Opening Date	17th April 2011
Principal	Alice Springs Town Council
Project Architect	TompkinsMDA Architects Pty Ltd
Project Aquatics Engineer	Geoff Ninnes Fong & Partners Pty Ltd
Head Contractor	Sitzler Bros Pty Ltd
Pool Builder/Contractor	Crystal Pools
PWT Subcontractor	Trisley Hydraulic Services
Pool Number & Type	2 x Concrete Formed & Poured, fully tiled
Total Pool Surface (m²)	1,030 (510 + 520)
Pool Volume (m³)	1,124 (734 + 390)
Pool Tiling	Agrob-Buchtal (Ceramic Solutions)
Pool Filtration/Capacity	Atlas® Precoat/ 2 x 320m ³ /hr
Advanced Oxidation	Medium Pressure UV (Prominent)
Water Treatment	Elemental Gas Chlorine & Soda Ash



POINTS OF INTEREST

TOWN POPULATION (2011): 28,000 approximately

DISTANCE FROM CRYSTAL HQ: 2,785km
(approximate 3.5hr flight from Sydney)

USE OF A NOMINATED SUBCONTRACT AGREEMENT:

Being such a critical decision, this specified delivery method allowed the Principal and his consulting team to be intimately involved with the selection of a Pool Contractor. This method also allowed the Principal to review a number of competing offers from prequalified and experienced pool contractors.

TYPICAL HOT DAY: 35°C by 9am

COMMON START TIME DURING NOVEMBER 2010: 2am (several work days finishing at 6pm)

CHALLENGES: Reinforcing steel so hot that it would blister the skin on contact.

DELIVERY & TRANSPORT ISSUES; plagues of grasshoppers and stink bugs.




NUMBER OF OCCASIONS THAT THE TODD RIVER FLOWED:

Six (to qualify as a local, you need to experience this three times)



This case study is one of hundreds of major commercial pool projects successfully delivered by Crystal Pools. Since 1957 they've made it a point of integrity to share knowledge, giving open advice to all enquiries. So at any stage in your pool project (any size, any type, new pools or renovations, a plant upgrade or a technical question) Crystal Pools are the master pool builders you can talk to.

 crystalpools.com.au

 (02) 9875 4555  (02) 9484 1019  paulh@crystalpools.com.au

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