

TECHNICAL TOURS

Itinerary

Times	TOURS	
	No. 1	No. 2 (If needed)
8.30 am	Depart Holiday Inn	Depart Holiday Inn
8.30 8.45	Travel Holiday Inn to Salt Development	Travel Holiday Inn to Tweed Catchment
9.00 am		
9.15 9.30 9.45	Site No. 1 Salt Development	Site No. 2 Tunnel Road & Site No. 3 Old Lismore Road
10.00 am	Morning Tea	Morning Tea
10.15 10.30 10.45	Travel Salt Development to Tweed Catchment	Travel Tweed Catchment to Salt Development
11.00 am		
11.15 11.30	Site No. 2 Tunnel Road & Site No. 3 Old Lismore Road	Site No. 1 Salt Development
11.45	Travel Tweed Catchment to Southport	Travel Salt Development to Kerry Park
12.00 noon		
12.15 12.30	Lunch	Carey Park Development
12.45	Site No. 4 Carey Park Development	Lunch
1.00 pm		
1.15 1.30	Travel Carey Park to Coomera Waters	Travel Southport to Coomera Waters
1.45		
2.00 pm		
2.15 2.30	Site No. 5 Coomera Waters Development	Site No. 5 Coomera Waters Development
2.45	Travel Coomera Waters to Carlton Brewhouse	Travel Coomera Waters to Carlton Brewhouse
3.00 pm		
3.15 3.30 3.45	Site No. 6 Carlton Brewhouse	Site No. 6 Carlton Brewhouse
4.00 pm		
4.15		
4.30 4.45	Travel CUB Brewhouse to Holliday Inn	Travel CUB Brewhouse to Holliday Inn
5.00pm	Arrive Holiday Inn	Arrive Holiday Inn

INFORMATION SHEET No. 1

Salt Development

Salt Development

Salt Village is an integrated residential and resort community, a first of its kind in Northern NSW. Located on the New Tweed Coast and only 15 minutes south of Gold Coast Airport, Salt Village is easily accessible for residents and visitors alike.

The development is a leading example of environmental sustainability with cutting edge Water Sensitive Urban Design which not only provides significant ecological benefits but also cost and resource savings. The innovative project, covering some 73 hectares, is being undertaken by developers the Ray Group.



A key component of the development strategy was the integration of a system of infiltration basins and swales to filter sediments and organic matter from the water column and to allow the filtered water to recharge the underground aquifer. By using infiltration, stormwater runoff has been reduced and soakage pits have been incorporated into each residential allotment to maximize infiltration. During the construction phase a detailed erosion and sediment control plan was implemented to minimize the potential for sediment transport to Cudgen Creek.



More than 20% of SALT has been allocated to public open space and the Masterplan designed Village Centre is a focal point where people can meet and local residents can be part of the extended community. The development protects and enhances the natural environment and throughout the development visual amenity is paramount. Throughout the site infrastructure has been designed to bend into the built and natural environment encouraging residents and visitors alike to explore and enjoy its open spaces.

The project was visualised as “worlds best practice” sea side village development which has subsequently achieved recognition through the awarding of Green Globe certification – an international travel and tourism benchmarking and certification program dedicated to sustainable tourism and the New south Wales Stormwater Industry Association award for Stormwater Management.

For more information, visit the Sales Centre at
Bells Boulevard, South Kingscliff
Phone Toll Free: 1300 225 572
Fax: 02 6674 3444
email: info@saltvillage.com.au



INFORMATION SHEET No. 2

Fish Passage Tour Sites

The highly modified nature of catchments in the Northern Rivers region presents many challenges in the way we protect the environment and manage its natural resources. In particular, setting goals and targets for aquatic habitat conservation in the region requires clear understanding of the extent of aquatic habitat degradation and where we can achieve the best outcomes.

Native Australian fish have evolved to be reliant on a variety of habitat types to complete their life cycle, thus requiring free movement within rivers and streams and between estuarine and freshwater environments. Until recently, management of fish passage barriers has centred on the effects of weirs and dams, while little attention has been given to the extent of the impact of road crossings. Waterway crossings can affect the health of aquatic habitat and fish populations in several ways. Structures such as causeways and pipe and box culverts can prevent fish passage due to excessive headloss, increased flow velocities, and shallow flow depths that segregate upstream and downstream populations and habitats.

Initial investigations to identify possible sites for remediation included consultation with regional NSW DPI Fisheries (Conservation and Aquaculture) staff, regional staff from the Department of Natural Resources (DNR), and local government asset managers. One of the demonstration sites selected for remediation in the Northern Rivers subregion was Tunnel Road at Stokers Siding in the Tweed Shire. The piped causeway over an unnamed tributary of Dunbible Creek restricted fish passage at low-flow conditions due to excessive headloss and shallow flow depth through the structure.



Remediation of the crossing involved the removal of the existing structure and the insertion of a single span, recycled bridge at a cost of \$160,000. Realised benefits included improved access for native fish species to 1.0 km of upstream habitat, reinstatement of a natural creek channel bed, and improved safety and reliability of the crossing for 95 local residents in the Tweed Shire.



Designs initially produced by Tweed Shire Council proposed a three-celled box culvert with a central low-flow channel; however, this design was later changed to a single span concrete bridge using recycled materials from a previous structure. Creek bed level surveys were conducted to determine the likely impact of removing the causeway on channel stability and hydrology. Prior to the start of on-ground works, instream sediment control consisting of a floating silt boom was installed across the full width of the downstream channel.

For more information, contact the project officer at:
The New South Wales Department of Primary Industries (Fisheries Management).
Ph (02) 6626 1395
Internet: www.fisheries.nsw.gov.au

Information extracted from the following report:
NSW Department of Primary Industries (2006). Reducing the Impact of Weirs on Aquatic Habitat - New South Wales Detailed Weir Review.

INFORMATION SHEET No. 3

Carey Park Southport Parkland Re-development

Carey Park Redevelopment

Situated on the attractive Southport Broadwater, Carey Park is being redeveloped by the Gold Coast City Council. The Southport Broadwater Parkland which has formed a central part of Southport and the Gold Coast since the turn of the century. Southport Broadwater Parklands is one of the city's major, regional foreshore parkland areas, popular with residents and visitors and has the potential to become an icon for our city and for Australia, as one the nation's great foreshore parks.



The design of the parkland is underpinned by water sensitive urban design with the ultimate aim of reducing demand for water by 85% and incorporating a range of bioretention, wetland and water features designed to integrate with the urban nature of the park.



The first works associated with the parkland has been the creation of a new car parking facility within Carey Park which has been designed to ensure best practice management of stormwater runoff. All car park runoff is delivered at surface to a series of linear bioretention basins created as depressed landscapes adjacent to the parkland. The basins treat stormwater before allow treated stormwater to either recharge the existing sand aquifer or discharge to the broadwater. The bioretention basins are recently constructed systems and have vegetation in an establishment phase.

For more information, visit the Gold Coast City Council website www.goldcoast.qld.gov.au or phone 1300 366 692.

INFORMATION SHEET No. 4

Coomera Waters Development

Coomera Waters Development

More than five years in the planning, Coomera Waters Village and Resort is a true eco residential resort with a host of facilities and property options to suit a wide variety of budgets and lifestyles. The Development is bounded by a series of regionally significant aquatic ecosystems including Moreton Bay Marine Park and McCoys Creek with the protection of these ecosystems as a 'key' design vision and this has been achieved through the principles of Water Sensitive Urban Design (WSUD). The innovative project, covering 376 hectares, is being undertaken by developers Austcorp Group Limited.



Coomera Waters' have preserved large spaces of natural vegetation for the preservation of rare and endangered species such as the Spotted Mangrove Mouse. Extensive trails for walking or cycling have been integrated into the development and will be a major facet of the leisure opportunities enjoyed here. The planning and attention to detail at this unique development have been unusual in their quality. The master plan that includes extensive environmental education and nature-based leisure facilities designed to realise their vision for Coomera Waters as a major family eco-tourism and recreation destination.



Swale bioretention systems, bioretention 'rain gardens' and constructed wetlands integrated within streetscapes and precinct parks to deliver best practise management of stormwater runoff. A sustainable freshwater lake and wetland system has been created within a significant regional parkland to create a focal point for the community. Dual reticulation/smart sewer systems to deliver the potable water conservation and wastewater minimisation targets established by Gold Coast Water's Pimpama Coomera Water Future Masterplan. The outcome is a residential development that promotes sustainable and integrated management of land and water resources, and incorporates interesting streetscape and public realm WSUD solutions throughout the urban template.

The landscape design philosophy for the project, whereby native and endemic plants are established to attract and support wildlife, including special butterfly and dragonfly habitats, will also play a key role in achieving the eco-vision for the development. In recognition of its environmental sensitivity, Coomera Waters was awarded in late 2006 the prestigious 'EnviroDevelopment' status by the Urban Development Institute of Australia. It is one of only six developments in Australia to be given the certification based on strict scientific benchmarks for environmental sustainable developments.



For more information, visit the Sales Centre, Ragamuffin Drive, Coomera Waters.
Phone Toll Free: 1800 733 433 Fax: 07 5561 8999, Internet: www.coomerawaters.com.au.

INFORMATION SHEET No. 5

Carlton United Breweries – Yatala Brewhouse

Carlton United Breweries – Yatala Brewhouse

To round off our tour and enable the savouring of some of Australia's finest brewing technology we will visit the Carlton United Breweries, Yatala Brewhouse.

The Carlton BrewHouse is conveniently located mid-way between Brisbane and the Gold Coast. This recently refurbished venue is surrounded by one of Australia's largest breweries which hosts state of the art brewing and packaging technology (filling an amazing 1,100 bottles per minute!)



The Carlton BrewHouse Function Centre has recently been fully refurbished and includes a spacious modern function room, bar and relaxed beer garden. It is the ideal venue for corporate events, cocktail parties & dinners, conferencing and relaxed networking events. These unique facilities can cater for all groups with a maximum of 400 guests with additional surrounding areas that can take up to 700 people. This unique modern light filled space with relaxed beer garden is ideal for special events, conferencing and tours.



Discover how VB is brewed, how the celebratory Crown Lager is bottled and how Carlton Midstrength is canned at the Carlton Brewery. The Carlton Brewhouse offers visitors a unique opportunity to experience the Fosters Group passion for brewing through guided tours of one of Australia's largest and most technologically advanced brewery.

You'll see first-hand the new facilities in action as guided tours take in the full brewing process: from raw ingredients to brewing, bottling and then the amazing new distribution centre. The friendly tour guides will test your brewing knowledge as you sample the beers or enjoy a light lunch at the end of the tour in the new Brewhouse Bar and Beer Garden. For that perfect souvenir or gift, the merchandise shop has an extensive range of branded shirts, coolers, caps and much more.



For more information, visit the Visitors & Function Centre, Cuthbert Drive, Yatala.

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Fax +61 7 3807 2845

Internet: www.carltonbrewhouse.com.au