



Murray Darling Association Inc.

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Minutes of Meeting No. 100 of Region 7 (Greater Adelaide) On Thursday 2nd Mar 2017 at Adelaide City Council David Spence Room, Adelaide Town Hall, 128 King William St, Adelaide SA 5000

1. ATTENDANCE

1.1 Present

Cr Lynda Yates	Secretary, Holdfast Bay Council
Cr Peter Jamieson	Region 7 Chair, Port Adelaide Enfield Council
Lord Mayor Martin Haese	Adelaide City Council
Mayor Lorraine Rosenberg	Onkaparinga Council, LGA President
Stephen Smith	Director Policy, LGA
Deputy Mayor Dino Musolino	Playford Council
Cr Robin Coleman	Tea Tree Gully Council
Deputy Mayor Barry Featherston	Alexandrina Council, R6 Chair, MDA Nat Vice President
Robin Bruce	Past Member
Coral Gooley	Past Member and former R7 Secretary
Oliver Luckhurst-Smith	Adelaide City Council staff
Andrew Smith	Adelaide City Council staff
Mark Konecny	Tea Tree Gully Council staff
Cr Carol Muzyk	Playford Council (del)
Cr Shirley Halls	Playford Council (del)
Cr Denis Davey	Playford Council
Cr Arthur Mangos	West Torrens Council
Cr David Shetliffe	Walkerville Council
Pauline Frost	Life Member since 2003
Gary Goland	
Ray Najjar	

1.2 Apologies

Hon John Dawkins	MLC
Hon Michelle Lensink	MLC
Vickie Chapman	MP
Stephen Marshall	MP
Adrian Pederick	MP
Nick Xenophon	Federal Senator
Mayor Denis Clark	Northern Areas Council
Mayor Glenn Docherty	Playford Council
Mayor Angela Evans	Charles Sturt Council
Mayor John Trainer	West Torrens Council
Cr Garth Palmer	West Torrens Council
Cr Andrew Tilley	Mitcham Council
Cr Karen Hockley	Mitcham Council

Cr Neville Grigg	Campbelltown Council
Cr John Kennedy OAM	Campbelltown Council
Vicky Velasquez	
Ron Jones	JP
Barbara Hardy	
Frank Verrall	
Max O'Rielly	Past member
Duncan McMillan	Past member
David John McKellar	Past member

2. WELCOME

2.1 Lord Mayor Martin Haese welcomed everyone to the 100th meeting.

Since 2007, Adelaide City Council has embraced sustainability. The 4 key words in the new strategic plan are Smart, Green, Livable and Creative.

South Australia is well regarded internationally for its expertise in water management and is working with the Chinese on their sustainability issues.

Specific goals for Adelaide City involve what species to plant for water sensitive urban design (WSUD) as 1000 trees will be planted this year.

The Town Hall reached 150 years old last year and is being renovated but also is opened as much as possible to the community.

Adelaide aims to be carbon neutral by 2025. SA's marketing position of producing clean, green products is recognized internationally and carbon neutral certification will be a stamp of approval by the world as it must be worked for with an audit before certification is awarded. Brand image and export growth lead directly to more jobs, tourism and overseas investment.

2.2 Cr Peter Jamieson opened the 100th meeting.

3. MINUTES

3.1 The last formal meeting was held on 15/09/16 at Tea Tree Gully Council (although there was also a Christmas get-together 1/12/16 at Port Adelaide Enfield).

Motion: That the minutes of the last Region 7 meeting be accepted.
Cr Robin Coleman / Pauline Smith – Carried

4. BUSINESS ARISING

None

5. PRESENTATION

Water Management and Environmental Issues by Andrew Smith, Asset Manager Water Infrastructure, Adelaide City Council

ACC provided a copy of the PowerPoint presentation and this is based on that but without the photos and maps.

The following topics will be covered: Torrens Lake, Recreational Water Features, Watercourses, Flood Mitigation and Recycled Water Use.

1. Torrens Lake

The lake has a surface area of 14.9 ha from the weir to Frome Rd and contains 450ML water. It is used by a variety of recreational boats - Popeye cruises, paddleboats,

gondalas, dragonboats, BBQ donuts and rowing boats/sculls. There are natural springs that flow into the Torrens near Albert Bridge (by the zoo).

Over the next 3 years, the Adelaide Riverbank Authority 2014 will invest several billion dollars to make this a premier biomedical, entertainment, cultural and educational precinct – a must see destination and centerpiece of the City. New developments like the SAHMRI building, SA Biomedical and Health Precinct, New Royal Adelaide Hospital, Adelaide Oval, Adelaide Oval Footbridge and upgrades of Adelaide Casino, Adelaide Festival Centre Hajek Plaza, Adelaide Convention Centre and University of SA are proceeding.

Issues - Water Quality

- Blue green algae in the summer months
- Bacteria (E.coli, enterococci) after rainfall events
- Aquatic plants like duckweed

Issues - Sedimentation

- Minor dredging of lake required every 5 years since the late 1990s (The recent attraction, the Palais barge in Elder Park, required dredging to be done)

Issues – Gross Pollutants

- 15 Gross Pollutant Traps (GPTs) serve 90% of the catchment
- Upstream pollutant loading occurs eg. September/October, 2 double truckloads taken from the weir

Issues – Damage to infrastructure

- Earth retaining walls
- Bank slippage, especially this year when there was 70GL, double the normal water flow, due to heavy rainfall

Water Quality Programs

- Guided by the Torrens Task Force Report 2007, updated 2009 and reducing the projects to 5, many of which are now completed eg. GPTs
- River Torrens Water Quality Improvement Program involves the EPA, SA Water and the NRM Board
- 3 meteorological stations measure the atmosphere and underwater
- Summer Cyanobacteria Monitoring Program - measure blue green algae and nutrient growth
- 17 water mixers reduce stratification of layers and decrease algae production
- 15 GPTs

Water Quality Initiatives

- Dilution flows (150 ML/day over 4 days)
- Sodium percarbonate algaecide treatment
- Carp management (493 carp /1,740kg removed in 2016)
- Woody weed removal (1.14ha removed 2016 and replaced with 570 local provenance mid-storey native plant species)
- Macrophyte replanting (6,600 submerged plants over 0.4ha in 2016) target 5ha – 30% lake bed – by 2020

2. Recreational Water Features

These include the Rymill Park Lake (row boat hire), Bonython Park Lake (model boat use) and Veale Gardens Water Feature.

Rymill Park Lake

- 4ML lake filled with recycled waste water from Glenelg Treatment Plant (GAP) – more than twice the volume of the lake is fed in each year as it is shallow so water evaporates plus it is old and leaks
- Kiosk with row boat hire – a secondary contact risk with water so there is monthly water quality sampling and analysis
- Bacteria (E.coli, enterococci) occur after rainfall so the lake is closed for 2-3 days afterwards
- Green algae and aquatic plants are also an issue
- Prominent parkland setting

Bonython Park Lake

- Lake filled with recycled waste water (GAP) so the nutrient and pollutant levels are 100 times the Torrens Lake levels
- Model Boat Pond – primary contact risk with water – although a sign says no standing in the water, this is often ignored
- Blue green algae and aquatic plants are an issue

Veale Gardens Water Feature

- Water feature with nutrient-rich recycled waste water (GAP)
- Reticulated 500m long water course (2 x 250m stretches)
- Bacteria (E.coli, enterococci) occur after rainfall
- Issues with duck faeces

Water Quality Treatments

- Irrigation plant determines GAP water availability
- Cyanobacteria treatment (EPA license required) – water cannot be discharged to environment
- Surface tension treatment – aquatic plants
- Algaecide treatment (sodium hypochlorite) to reduce very high blue green algae cell counts
- Water vegetable dye to inhibit effects of sunlight/temp
- Proposed treatment plant at Rymill Park Lake in next 3 years

3. Watercourses

- 7.5km creeks, watercourses and open channels
- 7 watercourses in the Parklands
- Biggest are Botanic Creek in the northeast and Parklands Creek in the southeast which include large catchments outside Council's boundaries
- Creeks constructed in early 1900s with little environmental value
- Safety and flow capacity are highest risk to council
- Significant renewal program under way

Parklands Creek

- Significantly degraded watercourse – less than 1 year ARI flow capacity –

regularly floods

- Up to 1.5 m high vertically sided rectangular channel – significant safety risk
- Tributary to Keswick Creek (Brown Hill Keswick Creek Catchment)
- \$3.8 mil renewal works (1.4 km) over next 4 years

Parklands Creek – Renewal Outcomes

- Improves Public Safety – laying back banks
- Improved flood protection
- Informal recreational opportunities
- Water reuse through rain gardens
- Improved water quality
- Water Sensitive Urban Design principles
- Enhances biodiversity
- Protects and promotes habitat corridor
- Cultural opportunities – signage on aboriginal plant usage
- Supports adjacent landscapes and movement
- Educational opportunities

4. Flood Mitigation

A small detention basin occurs at Robe Terrace in the north and there are 3 sets on the west which date from the 1990s and support the railway yards – Park 23 (2 basins), Park 24 (1 basin) and Park 25 (1 basin).

Brown Hill Keswick Creek Project

- Stormwater Management Plan developed by Adelaide, Burnside, Mitcham, Unley and West Torrens Councils
- \$145mil of projects within the catchment.
- \$16mil to be invested in the South Park Lands and Glenside Campus to deliver detention and water quality outcomes
- Includes new wetland in Victoria Park
- Temporary flood storages in Park 20 and Glenside Campus
- Will reduce flows in the Keswick Creek Catchment and flooding in the Parklands

Victoria Park Wetland

- Improved flood protection
- Recreational opportunities – cycle path round perimeter, central boardwalk
- Water reuse through aquifer storage and recovery (if economically feasible)
- Improved water quality
- Ephemeral wetland design – some deep water but also shallows – seasonal drying
- Enhances biodiversity
- Protects and promotes habitat (native grasses for checkered copper butterfly)
- Cultural opportunities
- Interpretive centre - educational opportunities

5. Recycled Water Use

Sources of Recycled Water

- Council purchases recycled waste water (GAP) for irrigating open spaces

- Council extracts recycled stormwater from Torrens Lake for irrigating golf courses and other open spaces along Torrens Lake
- Bioretention basins and rain gardens provide passive irrigation to green spaces throughout the City
- Councils Strategic Plan seeks to increase the use of recycled water and reduce potable water use

GAP Water

- Recycled waste water (GAP) is supplied by SA Water from the Glenelg WWTP
- Council can draw up to 1.3GL of recycled waste water per annum
- Actual usage fluctuates with climate conditions
- Mains pipe from Glenelg to SW Parklands and ring main to water many city open spaces (groundwater and soil monitoring at 30 spots throughout year)
- 40 reserves, ovals and pitches still use bores - encourage switch to GAP water

Recycled Stormwater

- Council has DEWNR license to withdraw up to 410 ML / annum from Torrens Lake
- Actual metered water usage is around 350 ML/annum, much on golf courses
- A number of 3rd parties also draw water from Torrens Lake including Adelaide Oval, Tennis SA, University of Adelaide, Private Schools
- Supply is impacted by water quality (cyanobacteria) and water levels in Torrens Lake – in 2010 had to stop extraction as lake level too low

Suspension of meeting for Annual General Meeting of Region 7 MDA

6. AGM

6.1 Present (as above)

6.2 Apologies (as above)

6.3 Minutes of Last AGM

The last AGM was held on 23rd July 2015 at West Torrens Council.

Motion: That the minutes of the last Region 7 AGM be accepted.

Cr Arthur Mangos / Cr Lynda Yates – Carried

6.4 Chair's Report

There was a Board meeting in Feb 2017. South Queensland has successfully recruited more members. Region 8 is trying to increase council members. A couple of regions are becoming more active. However, expenses exceed income by approximately \$30,000. Peter is no longer National Treasurer. Pauline Frost asked about the Foundation. It has lost its charitable status but still has approximately \$160,000 water rights. An effort must be made to increase MDA membership. Peter said he will not be standing for re-election. He originally became the Port Adelaide Enfield council delegate opportunistly and then was elected to Chair of Region 7. He feels it is time for someone else to have a go.

Barry Featherston, National Vice-President, commended Peter for his 5 or 6 years of service as Region 7 Chair and as National Treasurer. Peter had fought for the need for education and for the importance of Region 7 to the MDA. Peter was presented with a bottle of wine from Albany.

6.5 Election of Officers for Region 7

Stephen Smith assumed the Chair as Returning Officer for election of Officers for Greater Adelaide Region 7 of the Murray Darling Association. The following office holders were unanimously carried:

6.5.1 Chair David Shetliffe

Pauline Smith / Cr Shirley Halls **elected unopposed**

6.5.2 Committee Members:

Cr Arthur Mangos, Cr Lynda Yates, Pauline Frost, Frank Verrall

Cr Carol Muzyk / Cr Shirley Halls) **elected unopposed**

As 2 – 5 committee members are allowed, a vacancy exists and Cr Shirley Halls nominated. The new Chair will check if casual vacancies can be filled and if so Cr Halls will join the committee.

Resumption of General Meeting

7. GENERAL BUSINESS

Cr Denis Davey said this will be his last meeting as he is not allowed to be a private member when an elected member for Playford but not a delegate. He has been a faithful attendee at meetings, is knowledgeable about water usage and he will be missed.

8. NEXT MEETING

To be arranged

9. CLOSE 10pm

Secretary Lynda Yates lyates@holdfast.sa.gov.au ; Mob 0417 484 717

The Murray Darling Association acknowledges and thanks

Adelaide City Council, particularly Oliver Luckhurst-Smith, for arranging and hosting this meeting of Region 7.