

OPEN SECTION

E&I/1

CITY OF DARWIN

ENVIRONMENT & INFRASTRUCTURE COMMITTEE

TUESDAY, 16 FEBRUARY 2016

MEMBERS: Member S J Niblock (Chairman); The Right Worshipful, The Lord Mayor, Katrina Fong Lim; Member R M Knox; Member R Want de Rowe; Member E L Young.

OFFICERS: Chief Executive Officer, Mr B Dowd; General Manager Infrastructure, Mr L Cercarelli; Executive Manager, Mr M Blackburn; Manager Technical Services, Mrs N Nilon; Manager Design, Planning & Projects, Mr D Lelekis; Manager Infrastructure Maintenance, Mr K Smith; Manager Climate Change & Environment, Ms S Gamble; Executive Assistant, Ms A Smit.

Enquiries and/or Apologies: Arweena Smit
E-mail: a.smit@darwin.nt.gov.au - PH: 89300 685
OR Phone Committee Room 1, for Late Apologies - PH: 89300 519

Committee's Responsibilities

- Asset Management
- Building Services
- Cemeteries
- Mosquito control
- Operations
- Parks & Reserves
- Pathways
- Road maintenance
- Sporting Areas
- Stormwater Drainage Maintenance
- Street Cleaning
- Urban Forest Management
- Infrastructure Projects
- Infrastructure Maintenance
- Design
- Planning
- Road Construction and Traffic Management
- Urban Enhancement
- Climate Change and Environment
- Waste Management
- Outdoor Dining
- Signage

THAT effective as of 16 April 2012 Council, pursuant to Section 32 (2)(b) of the Local Government Act 2008, hereby delegates to the Environment & Infrastructure Committee the power to make recommendations to Council and decisions relating to Environment & Infrastructure matters within the approved budget.

OPEN SECTION

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E&I/4

Environment & Infrastructure Committee Meeting – Tuesday, 16 February 2016

1. MEETING DECLARED OPEN

2. APOLOGIES AND LEAVE OF ABSENCE

Common No. 2695036

2.1 Apologies

2.2 Leave of Absence Granted

Nil

3. ELECTRONIC MEETING ATTENDANCE

Common No. 2221528

3.1 Electronic Meeting Attendance Granted

Nil

4. DECLARATION OF INTEREST OF MEMBERS AND STAFF

Nil

5. CONFIDENTIAL ITEMS

Common No. 1944604

Nil

OPEN SECTION

E&I/5

Environment & Infrastructure Committee Meeting – Tuesday, 16 February 2016

6. WITHDRAWAL OF ITEMS FOR DISCUSSION

() COMMITTEE'S DECISION

THAT the Committee resolve under delegated authority that all Information Items and Officers Reports to the Environment & Infrastructure Committee Meeting held on be received and considered individually.

DECISION NO.21\() (16/02/16)

7. CONFIRMATION OF MINUTES PERTAINING TO THE PREVIOUS ENVIRONMENT & INFRASTRUCTURE COMMITTEE MEETING

() COMMITTEE'S DECISION

THAT the Committee resolve that the minutes of the previous Environment & Infrastructure Committee Meeting held on Tuesday, 17 November 2015, tabled by the Chairman, be received and confirmed as a true and correct record of the proceedings of that meeting.

DECISION NO.21\() (16/02/16)

8. BUSINESS ARISING FROM THE MINUTES PERTAINING TO THE PREVIOUS ENVIRONMENT & INFRASTRUCTURE COMMITTEE MEETING

8.1 Business Arising

9. DEPUTATIONS AND BRIEFINGS

Nil

ENCL: ENVIRONMENT & INFRASTRUCTURE
YES COMMITTEE/OPEN

AGENDA ITEM: 10.1

SMITH STREET WEST – MANAGEMENT OF ON AND OFF-STREET PARKING

REPORT No.: 16TS0008 PH:jg

COMMON No.: 3029748

DATE: 16/02/2016

Presenter: Manager Design Planning & Projects, Drosso Lelekis

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide information on possible management options for parking on Smith Street, between Daly Street and Lambell Terrace, including proposed new parking areas within the Smith Street verge.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.1 Improved access and connectivity

Key Strategies

2.1.3 Manage the road network to meet community needs

KEY ISSUES

- Council resolved to consider funding in the 2016/2017 Budget process, the construction of additional formalised off-street parking within the Smith Street verge area, between Daly Street and Lambell Street.
- Observations of parking along Smith Street West show that parking is concentrated from Daly Street to Packard Place and appears to be a mix of vehicles associated with workers' and residents in the area.
- Parking management options considered are time-limit restrictions, the introduction of parking meters and unrestricted time-limit and free parking.
- It is recommended that three hour time limit parking restrictions be introduced along Smith Street, from Daly Street to Packard Place from 8.00 am to 5.00 pm Monday to Friday.

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 REPORT NUMBER: 16TS0008 PH:jg
 SUBJECT: SMITH STREET WEST – MANAGEMENT OF ON AND OFF STREET PARKING

RECOMMENDATIONS

THAT it be a recommendation to Council:-

- A. THAT Report Number 16TS0008 PH:jg entitled Smith Street West – Management of On and Off-Street Parking, be received and noted.
- B. THAT Council introduce three-hour time limit parking along Smith Street, from Daly Street to Packard Place from 8.00 am to 5.00 pm Monday to Friday as shown at **Attachment A** to Report Number 16TS0008 PH:jg entitled Smith Street West – Management of On and Off-Street Parking and that unrestricted time limit parking be retained along the balance of Smith Street West, including within any future verge parking areas introduced.
- C. THAT parking along Peary Street, Mauna Loa Street and Packard Place be monitored to ascertain if there is any detrimental impact on these roads as the result of the time-limited parking introduced along Smith Street, from Daly Street to Packard Place.

BACKGROUND

At the 2nd Ordinary Council Meeting held 28 April 2015 it was resolved as follows:

4. **Smith Street West – Parking Restrictions**
Report No. 15TS0064 NK:jg (21/04/15) Common No. 3029748

(Niblock/Knox)

- A. *THAT Report Number 15TS0064 NK:jg entitled Smith Street West - Parking Restrictions, be received and noted.*
- B. *THAT Council endorse the implementation of the proposed parking restrictions contained within Option 3 (**Attachment C**) of Report Number 15TS0064 NK:jg entitled Smith Street West - Parking Restrictions as amended to include line marked formalised parallel parking.*
- C. *That a further report investigating the management of parking along Smith Street West and the feasibility of providing additional car parking spaces within the wide verge along the southern side of Smith Street and adjoining roads, be prepared for Council's consideration in November 2015.*

DECISION NO.21\3256

(28/04/15)

Carried

The above mentioned parking restrictions and line marking were installed and an investigation into the feasibility of providing car parking spaces on the wide southern verge of Smith Street was undertaken. A report on the latter was presented to the 2nd Ordinary Council Meeting in November 2015 and it was resolved as follows:

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 REPORT NUMBER: 16TS0008 PH:jg
 SUBJECT: SMITH STREET WEST – MANAGEMENT OF ON AND OFF STREET PARKING

10.4 Smith Street West - Feasibility Of Providing Off Street Car Parking

Report No. 15TS0202 PH:jg (17/11/15) Common No. 3029748

(Lord Mayor/Elix)

THAT it be a recommendation to Council:-

- A. *THAT Report Number 15TS0202 PH:jg entitled Feasibility of Providing Additional Car Parking Spaces - Smith Street, be received and noted.*
- B. *THAT Council endorse for the purpose of consideration of funding in the 2016/17 Budget, the construction of car parking in the wide verge area on Smith Street as shown in **Attachment A** to Report Number 15TS0202 PH:jg entitled Feasibility of Providing Additional Car Parking Spaces - Smith Street, using concrete pavement and the installation of shade trees.*

Carried

This report informs Council on parking management options and recommends the introduction of three hour time limit parking along Smith Street, from Daly Street to Packard Place.

DISCUSSION

The section of Smith Street between Daly Street and Lambell Terrace is mostly residential, consisting primarily of multiple unit buildings. There is a small area of commercial business between Daly Street and Dashwood Crescent.

Free and unrestricted time limit on-street parallel parking is available on this section of Smith Street, with recently introduced parking restrictions (yellow lines) at the Daly Street end and at some intersections and line marked parking bays.

On the southern side of Smith Street, there is an 18.8 metre wide verge that provides an underground service corridor, has numerous mature trees, an asphalt shared path and a number of driveway crossings. Council has endorsed, subject to funding, the introduction of additional formalised parking within the verge.

Parking observations were made along Smith Street, between Daly Street and Lambell Terrace, to ascertain the overall level of usage of on-road and informal verge parking during the day and night.

These observations confirmed that there is a higher concentration of parking along Smith Street, between Daly Street and Packard Place, compared with the rest of the length of Smith Street to Lambell Terrace. During the day, the parking spaces in this area appear to be utilised by workers, who avail themselves of the unrestricted parking.

There were also a large number of vehicles parked on the northern side of Smith Street, near the Dashwood Crescent intersection at all times.

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 SUBJECT: SMITH STREET WEST – MANAGEMENT OF ON AND OFF STREET PARKING

The remainder of Smith Street experienced random parking along both sides of the road and the wide southern verge.

Parking Management Options

Three parking management options were considered:

- Time-restricted parking;
- Pay and display parking (parking meters);
- Unlimited and uncharged time parking (no change to existing situation)

The advantages and disadvantages of each option are identified in the table below:

	Advantages	Disadvantages
Time-restricted parking	<ul style="list-style-type: none"> • Allows for regulation of parking in the area. • Increases parking turnover. • Forces residential vehicles to park within their building lot, if parking is available on-site. <ul style="list-style-type: none"> • Will not result in additional cost to enforce the restrictions. Can be absorbed within current operational budgets. 	<ul style="list-style-type: none"> • May move parking of all day parkers to other nearby roads within the area, such as Peary Street, Mauna Loa Street and Packard Place, thereby creating issues elsewhere. • Requires policing of time restrictions to be effective.
Pay and display parking (parking meters)	<ul style="list-style-type: none"> • Allows for regulation of parking in the area. • Discourages all day parking of CBD workers. • Forces residential vehicles to park within their building lot (if parking is available on-site). • Will not result in additional cost to enforce pay and display parking. Can be absorbed within current operational budgets. 	<ul style="list-style-type: none"> • May move parking of all day parkers to other nearby roads within the area, such as Peary Street, Mauna Loa Street and Packard Place, thereby creating issues elsewhere. • Requires policing of pay and display ticketing, maintenance of machines and cash collection. • Cost of supplying and installation, maintenance and cash-collection for meters is considerable and likely to outweigh the revenue, making their installation unviable economically.
Unlimited and	<ul style="list-style-type: none"> • No need for policing of the 	<ul style="list-style-type: none"> • All day parking without turn

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 SUBJECT: SMITH STREET WEST – MANAGEMENT OF ON AND OFF STREET PARKING

uncharged time parking (no change to current situation)	area. • Parking continues at present without charge • Council has recently formalised parking in the area.	over will continue in the area.
---------------------------------------------------------	------------------------------------------------------------------------------------------------------------------	---------------------------------

Given that there is currently not a high turnover of parking along Smith Street west, which is predominantly made of workers and overflow parking generated by the residential buildings in the area and given the significant amount of commercial land use along this section of Smith Street west, implementing changes to increase parking turnover is considered appropriate to adjacent land uses and parking management.

It is recommended that Council introduce three hour time limit parking along Smith Street, from Daly Street to Packard Place, from 8.00 am to 5.00 pm Monday to Friday and that unrestricted time limit parking be retained along the balance of Smith Street west, including within any future verge parking areas introduced. The recommended three hour time limit parking measures are show at **Attachment A** to this report.

It is noted however, that subsequent to any introduction of time limited parking along Smith Street west, parkers may then seek unrestricted time limit parking elsewhere in the vicinity, such as Peary Street, Mauna Loa Street and Packard Place, this may create parking issues elsewhere. It is recommended that parking along these smaller roads be monitored to ascertain if there is any detrimental impact as the result of any time-limited parking introduced along Smith Street.

CONSULTATION PROCESS

A communication plan will be implemented to inform the community, in particular users of the area, of the change.

In preparing this report, the following City of Darwin officers were consulted:

- Technical Officer – Civil Engineering Design
- Manager Regulatory Services
- Regulatory Operations Supervisor
- Civil Engineering Officer

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 REPORT NUMBER: 16TS0008 PH:jg
 SUBJECT: SMITH STREET WEST – MANAGEMENT OF ON AND OFF STREET
 PARKING

POLICY IMPLICATIONS

The City of Darwin only currently has a parking strategy for the CBD. There is no parking strategy for the remainder of the municipality.

BUDGET AND RESOURCE IMPLICATIONS

There is no cost associated with leaving the parking management as is (i.e. unrestricted and uncharged).

The additional policing required for the time limited (3 hour) and pay and display parking options would be undertaken within existing operational budgets.

Minor costs will be associated with the installation of time restricted parking signage.

The cost of implementing pay and display parking, by way of the supply and installation, maintenance and cash-collection for parking meters will be significant. It is estimated that it could be of the order of \$50,000 (plus running costs for an estimated 5 parking meters).

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

There are no implications identified.

ENVIRONMENTAL IMPLICATIONS

There are no environmental implications identified.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

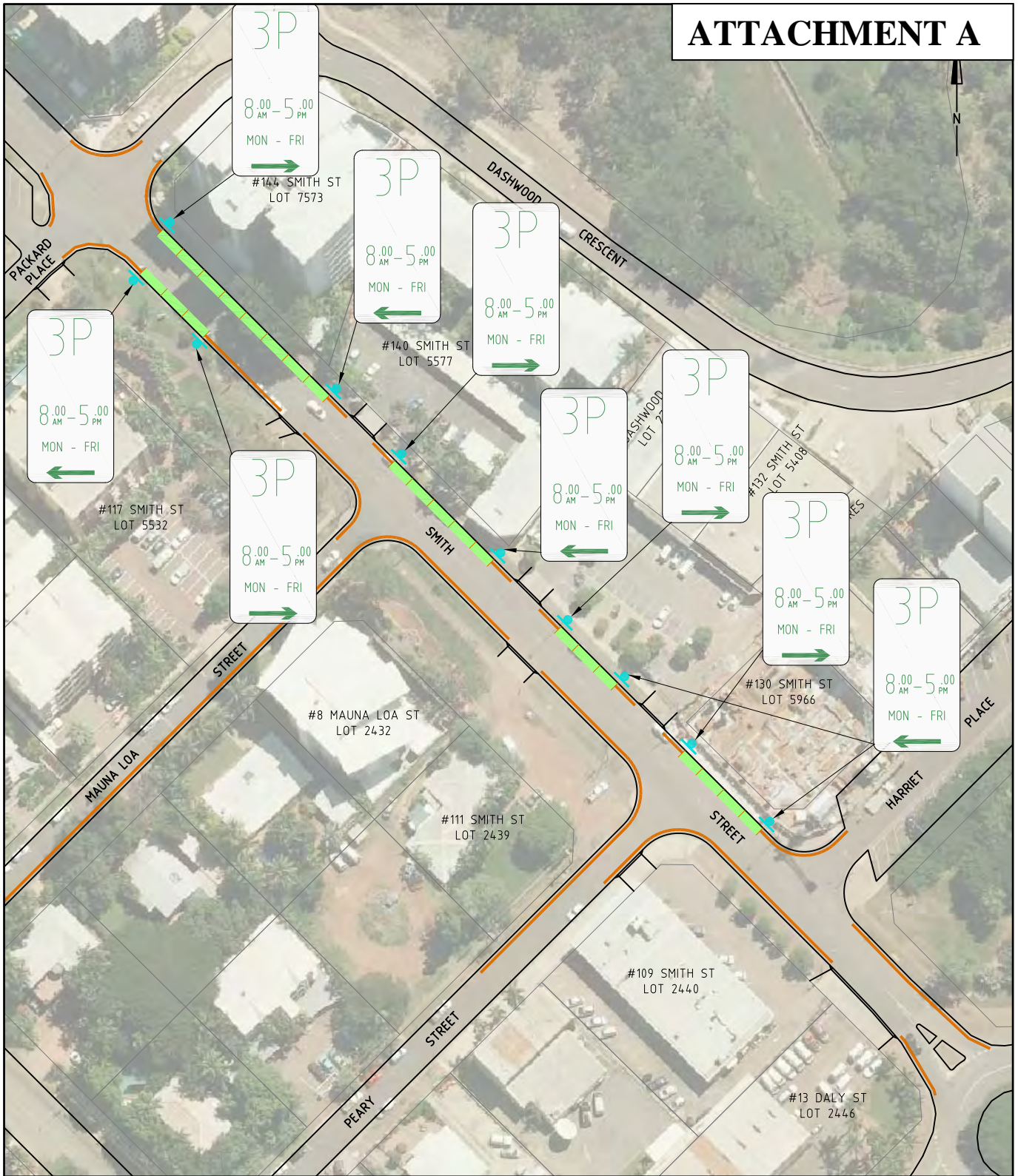
DROSSO LELEKIS
MANAGER DESIGN PLANNING &
PROJECTS

LUCCIO CERCARELLI
GENERAL MANAGER
INFRASTRUCTURE

For enquiries, please contact Drosso Lelekis on 89300414 or email:
 d.lelekis@darwin.nt.gov.au.




Attachment A: Proposed 3-Hour Time Limit Parking along Smith Street West

ATTACHMENT A



CAR PARKING CONCEPT PLAN

LEGEND

-  EXISTING CAR PARKING BAY
-  EXISTING SINGLE YELLOW LINE
-  NEW SIGN POST

DRAWN ZV	DESIGNED
SCALE NTS	CHECKED
APPROVED	DATE FEB '16
	SHEET 1 OF 1

SMITH STREET WEST PROPOSED 3-HOUR TIME LIMIT PARKING CAR PARKING CONCEPT PLAN		
SHEET SIZE: A4	DRAWING No. 0573_01	AMENDT. A



ENCL: ENVIRONMENT & INFRASTRUCTURE
YES COMMITTEE/OPEN

AGENDA ITEM: 10.2

DARWIN GOLF CLUB REQUEST FOR WASTE FEE EXEMPTION FROM TREE REMOVAL

REPORT No.: 16TS0023 MN:tz COMMON No.: 3291417

DATE: 16/02/2016

Presenter: Manager Technical Services, Nadine Nilon

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide discussion on the request for waste disposal charges of Mahogany tree stumps to be waived for the Darwin Golf Club.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

3 Environmentally Sustainable City

Outcome

3.2 Darwin community's carbon footprint reduced

Key Strategies

3.2.2 Increase awareness through encouraging the use of waste management options, including recycling across Darwin

KEY ISSUES

- The Darwin Golf Club is undertaking a project to remove Mahogany trees within their property in Marrara.
- The Northern Territory Government has provided a grant to Darwin Golf Club of \$100,000 towards the project, which they are estimating to cost over \$200,000.
- A request was received 17 December 2015 to waive the disposal fees for Mahogany tree stumps at the Shoal Bay Waste Management Facility.
- Waivers of disposal fees are available for non-profit organisations, or a waiver of up to \$1,000.00 can be granted for other organisations. These are granted on a case-by-case basis depending on the request.
- The total value of the exemption requested is expected to be in the range of \$4000 to \$7000, which won't be known until it is brought in and weighed at the time of disposal.
- It is recommended that the Golf Club be provided with a waiver on Shoal Bay Waste Facility charges of up to \$1,000 as they are considered a community sporting group.

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REPORT NUMBER: 16TS0023 MN:tz
SUBJECT: DARWIN GOLF CLUB REQUEST FOR WASTE FEE EXEMPTION FROM TREE REMOVAL

RECOMMENDATIONS

THAT it be a recommendation to Council:-

- A. THAT Report Number 16TS0023 MN:tz entitled Darwin Golf Club Request For Waste Fee Exemption From Tree Removal, be received and noted.
- B. THAT Council waive disposal fees up to a value of \$1,000.00 for the Darwin Golf Club for the mahogany removal project as detailed in their request dated 14 December 2015 as they are a community sporting group and the waiver is consistent with Council's Waste Management Policy of this type of activity.

BACKGROUND

The Darwin Golf Club is currently undertaking a project to remove Mahogany trees that were planted on the sixth fairway post Cyclone Tracy.

The Northern Territory Government has approved a grant of \$100,000.00 towards the project with the Darwin Golf Club contributing another \$100,000.00. The Darwin Golf Club has requested to have landfill charges waived for the removal of the tree stumps, as detailed in their letter dated 14 December 2015, **Attachment A**.

The City of Darwin Waste Management Policy allows Council to exempt waste disposal fees for non-profit organisations based on satisfying the below criteria:

- They must be non-profit making organisations.
- Exemptions will only be granted after assessment of a formal application.
- Formal application will include description of works undertaken that generated the waste, the type and quantity of waste and the haulers. This procedure applies to once off applicants as well as on going exemptions.

In 2005 the Darwin Golf Club contacted the City of Darwin with a similar request to waive disposal fees for Mahogany tree stumps to be removed from their course. Council's response at the time was for the Club to provide a not for profit status from the Australian Taxation Office prior to approval for disposal fees to be waived. Council alternatively agreed to waive up to \$500.00 for disposal fees if they could not provide the not for profit status. Council records indicate that the tree stumps were not disposed at the Shoal Bay Waste Management Facility at that time.

This report assesses the request for the waiver.

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 REPORT NUMBER: 16TS0023 MN:tz
 SUBJECT: DARWIN GOLF CLUB REQUEST FOR WASTE FEE EXEMPTION FROM TREE REMOVAL

DISCUSSION

The Darwin Golf Club estimates that there are 100 tree stumps to be removed, which could weigh in the range of 0.5 to more than 1 tonne each. The cost of disposing of these stumps at the Shoal Bay Waste Management Facility is estimated at being in the range of \$4000.00 to \$7000.00.

The Darwin Golf Club alleges that Council recommended the planting of Mahogany trees following Cyclone Tracy and permitted the location of the adjacent Koa Caravan Park. There is no record of Council recommending the planting of the Mahogany trees, nor did Council have planning responsibility in relation to the caravan park and therefore these are not being considered as relevant in this request and will be clarified in the response to the Darwin Golf Club.

The assessment of the request for waiver of fees is based on the current Waste Management Policy criteria. If an organisation meets the criteria, then exemption is provided. If it is not met, then the matter requires consideration on its merits.

The Darwin Golf Club's request for waiver of fees includes:

- A description of the works generating the waste – removal of trees
- The type of waste to be disposed – tree stumps
- Estimated quantity of waste to be disposed – 50 to 100 tonnes (or more)

The request did not include the following information for assessment as required by Council's Policy:

- Evidence of non-profit status - current ABN status indicates they do not have a charity tax concession status, however they are an unincorporated group
- Transporters of the waste

As the Darwin Golf Club has not provided evidence as being a non-profit organisation it does not fit the criteria to automatically grant a waiver of waste disposal fees for this project. Council has the option to waive waste charges based on the merit of the request.

The removal of the Mahogany trees is considered the responsibility of the owner of the property for which all costs would be the owner's responsibility. However, as the Northern Territory Government is providing assistance to the project, and the Darwin Golf Club is a sporting organisation it is recommended that a maximum value waiver would be reasonable to assist the club in their completion of the project.

It is recommended that a waiver of \$1,000.00 be granted to the Darwin Golf Club for the disposal of Mahogany tree stumps at the Shoal Bay Waste Management Facility. This value is consistent with the Waste Management Policy and previous assessments for waivers for similar groups and the project that is generating the waste.

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 REPORT NUMBER: 16TS0023 MN:tz
 SUBJECT: DARWIN GOLF CLUB REQUEST FOR WASTE FEE EXEMPTION FROM
 TREE REMOVAL

CONSULTATION PROCESS

In preparing this report, information was obtained from the following external parties:

- Darwin Golf Club

POLICY IMPLICATIONS

The recommendation is in line with the current Waste Management Policy.

BUDGET AND RESOURCE IMPLICATIONS

The waiver of \$1,000.00 would have minimal impact on the overall Waste Management budget.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

There is a risk that if a waiver is given above the current maximum \$1,000.00 standard fee exemption delegated to the General Manager Infrastructure that other organisations that aren't not-for-profit may request similar waivers.

ENVIRONMENTAL IMPLICATIONS

No environmental implications as the trees have already been substantially removed and they are not native to the region.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

NADINE NILON
MANAGER TECHNICAL
SERVICES

LUCCIO CERCARELLI
GENERAL MANAGER
INFRASTRUCTURE

For enquiries, please contact Nadine Nilon on 89300417 or email:
 n.nilon@darwin.nt.gov.au.

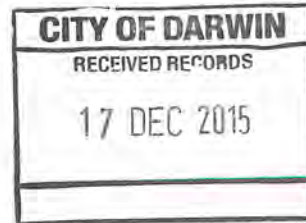
Attachments:

Attachment A: Darwin Golf Club Waiver Request Letter



14/12/2015

The Lord Mayor,
City of Darwin
GPO Box 84
Darwin, NT, 0801



Dear Lord Mayor,

I am writing to you on behalf of the Darwin Golf Club (DGC) seeking assistance from the City of Darwin (COD) for a current project underway.

After Cyclone Tracey and on the advice of the then COD, the DGC planted a myriad of African Mahogany trees around the entire course. The advice provided at the time was that they were quick growing and provided ample shade. While true, the dangers, 40 years on, are now well documented.

In particular, the African Mahogany's were planted along the 6th fairway. At the time of planting, the adjoining Caravan Park did not exist. The approval of the Caravan Park development by COD, immediately adjacent to a Golf Course, has meant that the residents of the Caravan Park living near the fence line were certainly at risk.

The DGC is now conducting a tree removal program, which has included in part the removal of the trees along the 6th fairway fence line. The massive stumps are yet to be removed. The cost for the overall program will be in excess of \$200,000. The NT Government has provided a grant of \$100,000 with the DGC contributing a further \$100,000.

A significant portion of the cost is the removal of the stumps and the fees incurred when being disposed of at the Council Tip.

The City of Darwin is the landlord of the Gardens Park Golf Links. I am sure that your staff are acutely aware of the significant costs incurred in operating a Golf Course. I would assume that the tenant of the Course would be constantly seeking assistance in some form. We at DGC suffer similar financial constraints as the watering and maintenance costs are significant.

We are a Community Club with our members consisting of predominantly City of Darwin ratepayers.

I would also state that the DGC currently pays around \$18,000 for Council Rates. The DGC also clears and maintains all floodwater drains filtering through the course (integral to the Marrara suburb) without any support from the COD.

We are seeking from your Council support for the DGC in the form of some relief from the very significant costs we are about to encounter at Shoal Bay landfill.

Your early response would be appreciated.

Yours Sincerely,

SAM CROWLEY
President

5 LINKS ROAD MARRARA NT 0812

TELEPHONE (08) 8927 1322 FACSIMILE (08) 8927 2567 EMAIL office@darwingolfclub.com.au

ABN 39 356 211 896

ENCL: ENVIRONMENT & INFRASTRUCTURE
 YES COMMITTEE/OPEN

AGENDA ITEM: 10.3

CLIMATE CHANGE ACTION PLAN QUARTERLY REPORT - JULY TO DECEMBER 2015

REPORT No.: 15TC0084 SG:nj COMMON No.: 1792647

DATE: 16/02/2016

Presenter: Manager Climate Change & Environment, Shenagh Gamble

Approved: Executive Manager, Mark Blackburn

PURPOSE

The purpose of this report is to inform the Committee of progress towards the Climate Change Action Plan and associated environmental initiatives.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

3 Environmentally Sustainable City

Outcome

3.1 Council's carbon footprint reduced

Key Strategies

3.1.1-Reduce Council's greenhouse gas emissions

KEY ISSUES

- This report comprises two quarters, July to September and October to December.
- Solar PV installed and operational at Bishop Street Operations Centre
- Community event preparation – Garage Sale Trail,
- Bike Plan Education
- Sustainable House Day Forum
- Casuarina Pool and Civic Centre Water Audits

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

THAT Report Number 15TC0084 SG:nj entitled Climate Change Action Plan Quarterly Report - July to December 2015, be received and noted.

BACKGROUND

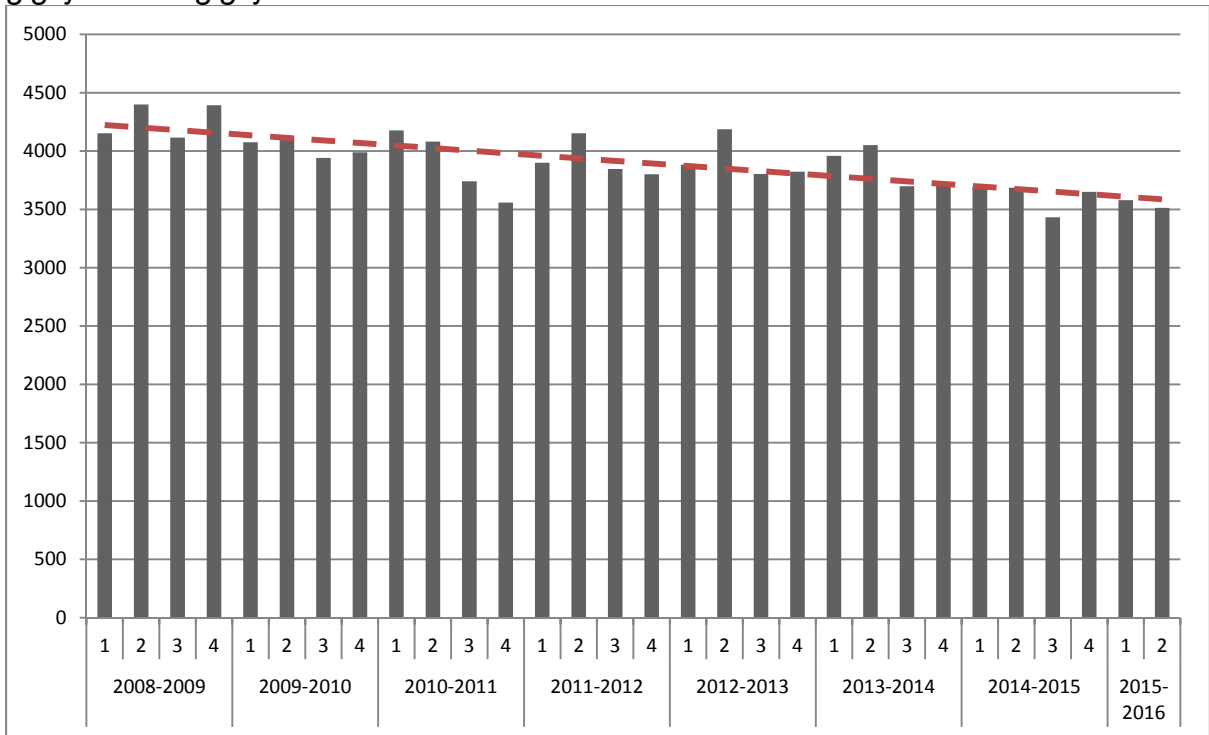
This report provides an update on progress against the Climate Change Action Plan and associated activities as completed by the Climate Change & Environment Team in the period July – December 2015.

DISCUSSION

1. Energy Consumption is reduced

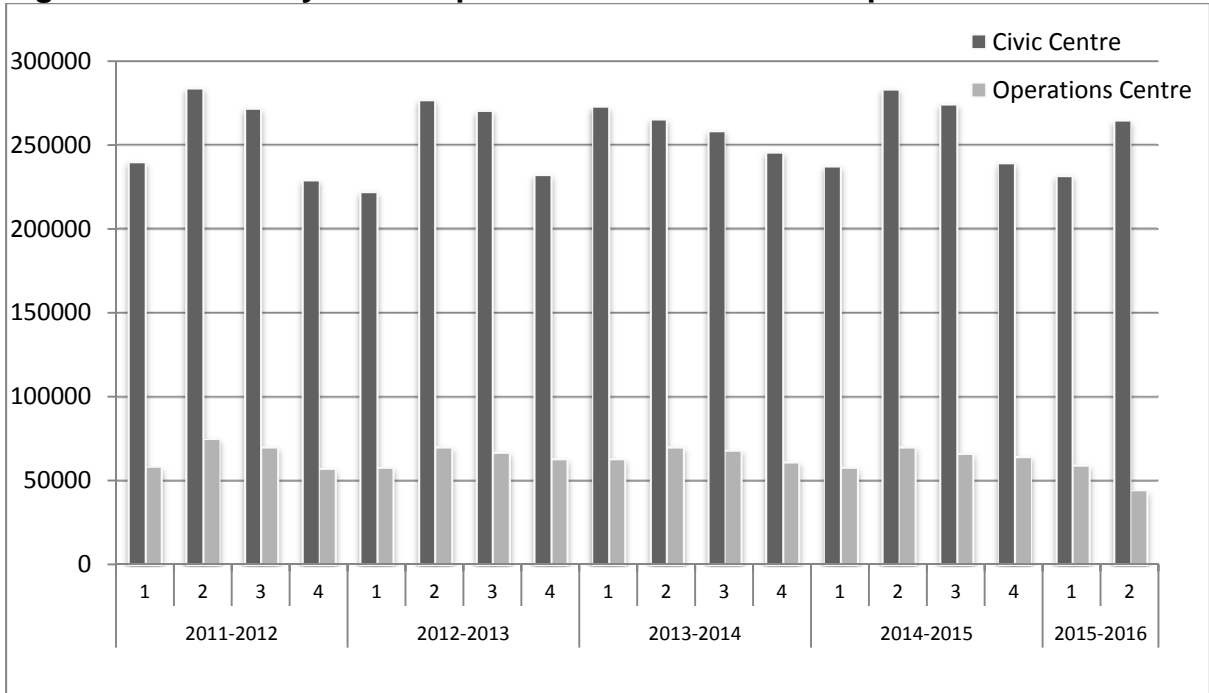
Council-wide electricity consumption in the first quarter and second quarters reduced by around 19% and 8 % respectively (compared with the same times last year). Electricity reductions for these periods when compared with the 2008-2009 benchmark year are 14% and 20% respectively.

Figure 1 – Electricity Consumption across all sites (GigaJoules GJ)
Trendline shown against benchmark year of 2008/2009. Consumption is in gigajoules. 1 gigajoule = 277.78 kWh



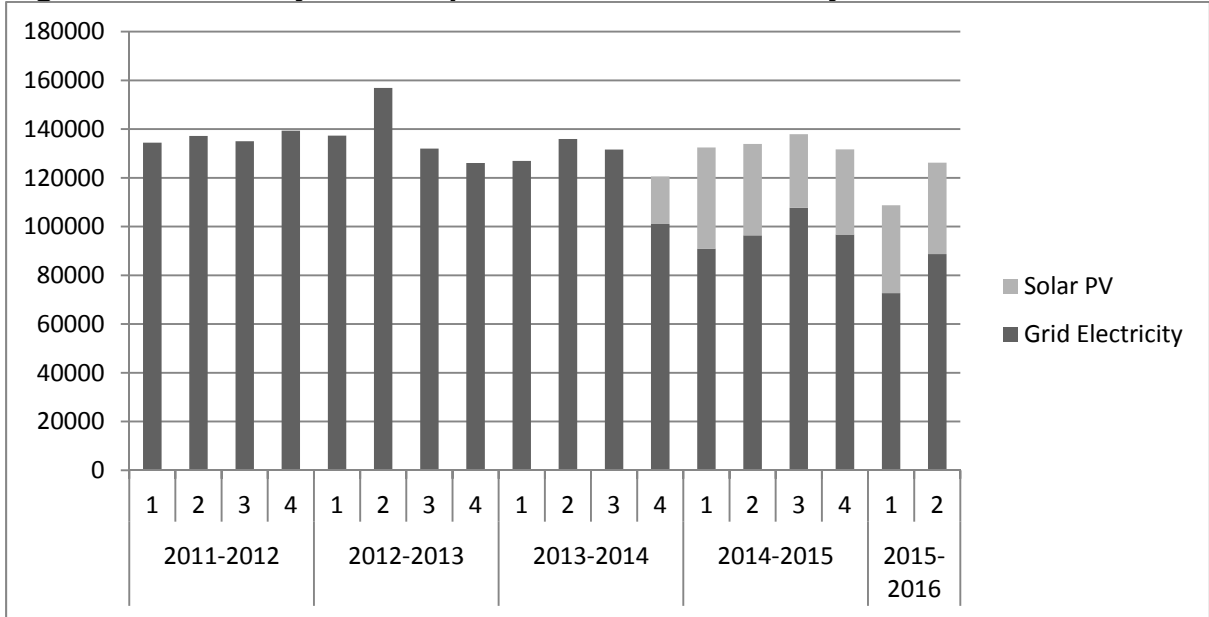
Key sites are discussed in more detail below. All figures below show kilowatt hours (kWh).

Figure 2 – Electricity Consumption at Civic Centre and Operations Centre



In September 2015 a 100kW Solar PV system was installed at the Bishop Street Operations Centre. It is estimated that this system will generate around 447 kWh per day. These savings are being realised with a reduction of 37% in the second quarter when compared with the same time last year.

Figure 3 - Electricity Consumption at Casuarina Library

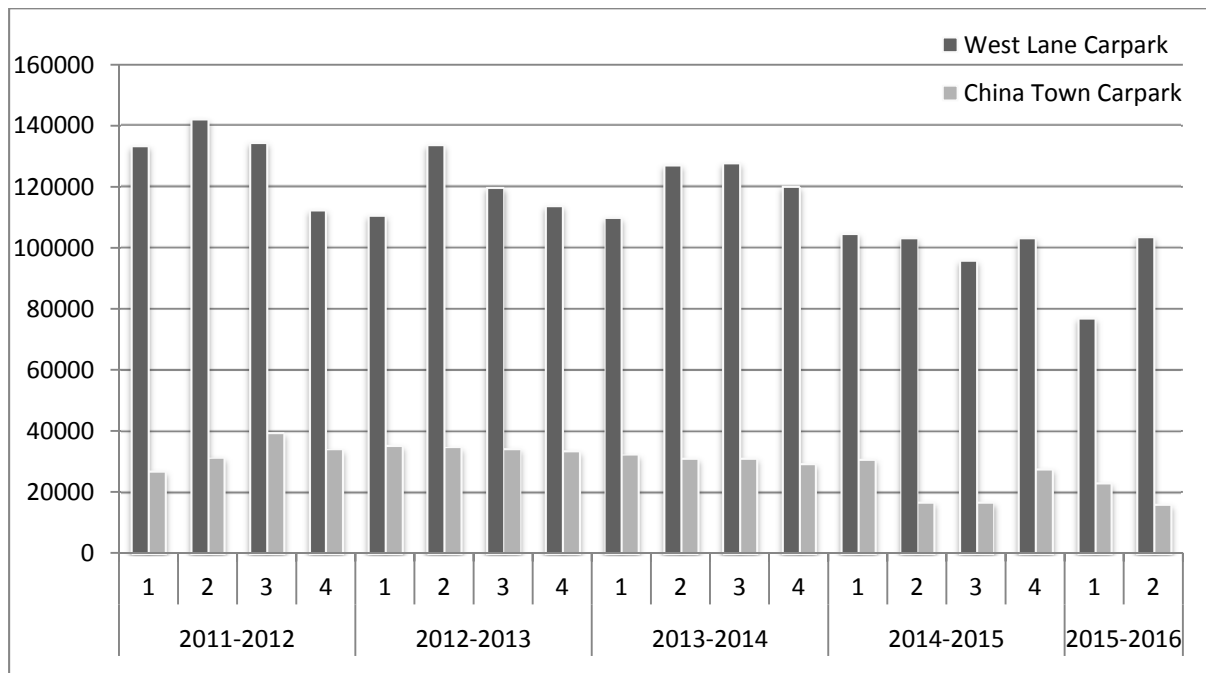


The Casuarina Library continues to generate electricity at a rate of around 400kWh per day. In mid-August a change to the internet arrangements at this site resulted in

the online monitoring capability being unavailable. This issue has been by City of Darwin staff and the installer. As such the electricity generated is an estimate based on previous average. The electricity use at Casuarina library for both quarters was less than the same time last year (first quarter reduction of 18%, second quarter reduction of 6%).

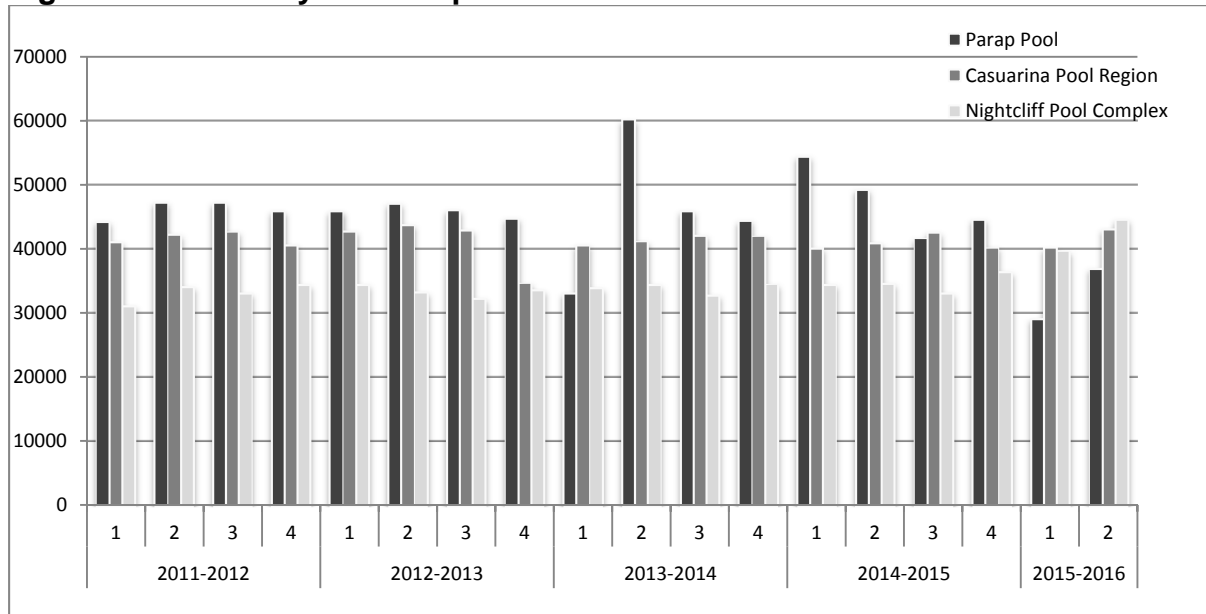
Figure 4 - Electricity Consumption at West Lane and Chinatown Car Parks

Note: The apparent increase in consumption in the second quarter at the West Lane Carpark is attributed to estimated reads during this period



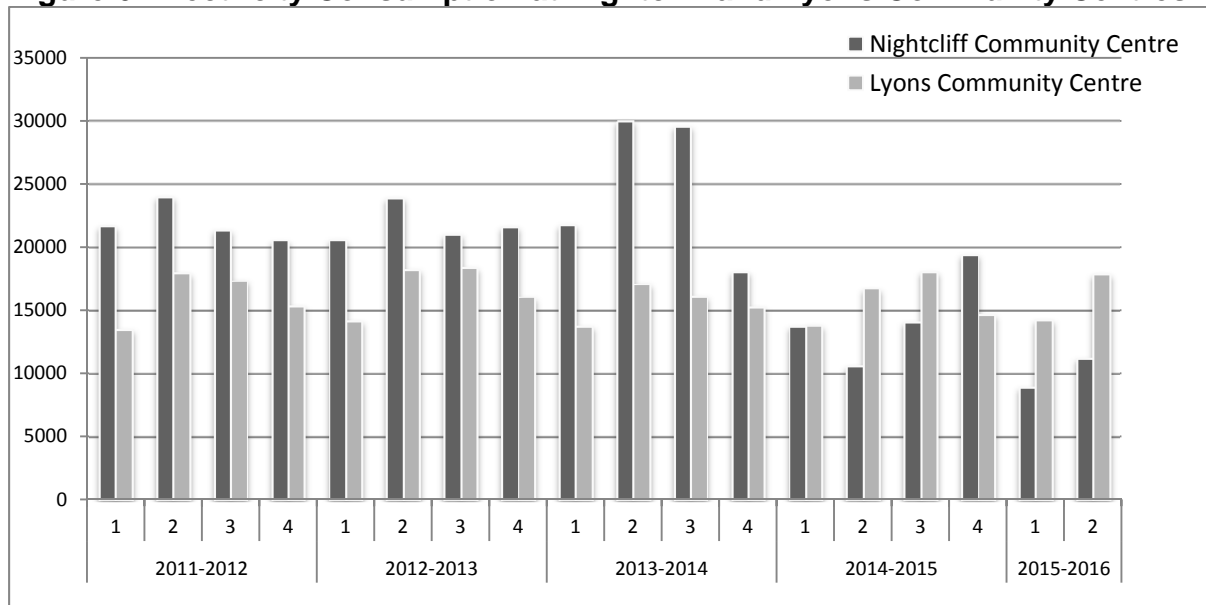
Electricity consumption at both car park sites remains consistently low following the installation of sensors and energy efficient lighting. The most notable change is around 25% reduction in electricity at both car parks in the first quarter when compared with the same time last year. Further installation of LEDs and additional sensor installation at Chinatown Car Park continues to reduce consumption.

Figure 5 - Electricity Consumption at Pools



Parap Pool is showing a good pattern of electricity reduction. Note that the high peak in Q2 2013/14 is attributable to a data entry error that is being rectified. Consumption at Nightcliff Pool is higher than would be expected due to the construction work for the Nightcliff Café which is drawing on the same meter at this time.

Figure 6- Electricity Consumption at Nightcliff and Lyons Community Centres



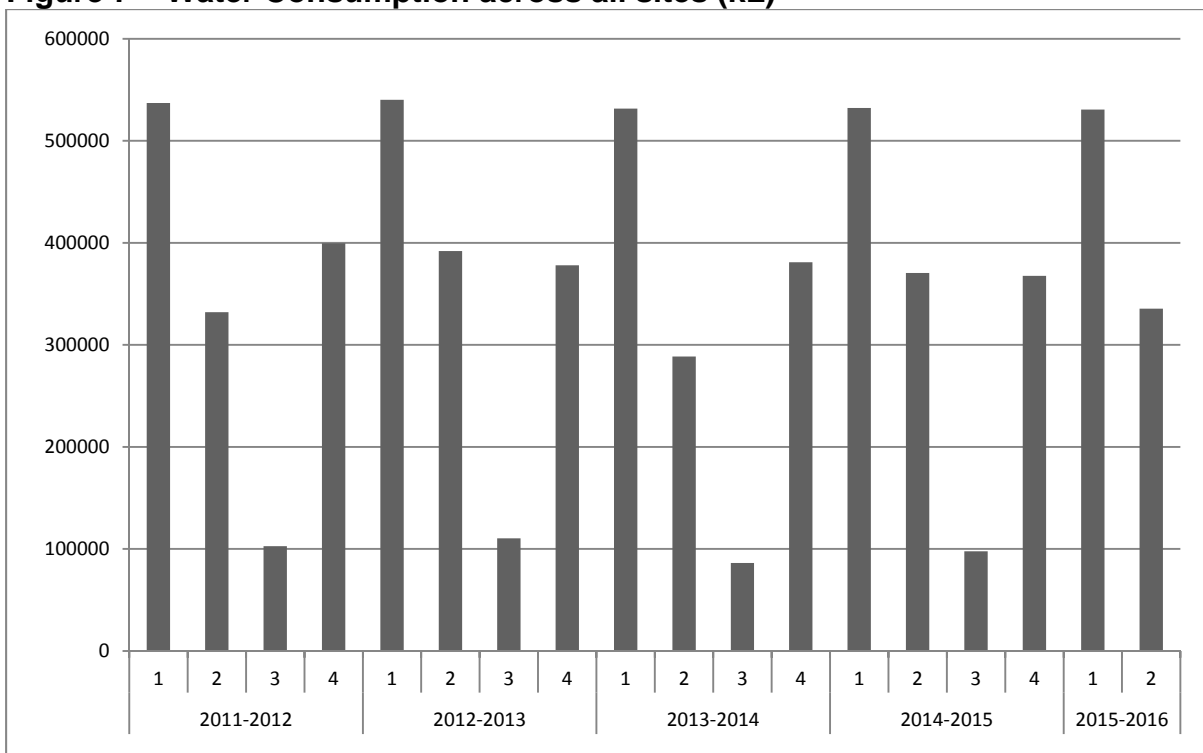
Generally electricity use at the community centres has decreased. A large peak of consumption at Nightcliff Community Centre in 2013-14 is attributed to a problem with the air conditioning system. Communal space air conditioning is the main contributor to electricity consumption at these sites. Sensor control in amenities and more efficient use of air conditioners has yielded electricity savings, however vigilance is required to ensure these communal areas are not compromised.

2. Water Consumption is reduced

Water consumption maintains a strong seasonal influence. Water efficiency initiatives are resulting in some savings at particular sites. The strong *el nino* weather pattern that is currently at play is resulting in high reliance on irrigation in open areas. It is expected that this will continue to influence the next quarter.

Council staff continues to work with Power and Water Corporation on water audits across buildings and to improve the quality of data for water meters.

Figure 7 – Water Consumption across all sites (kL)



Water use in the first quarter (end of dry season, toward build up) is consistently high due to increasing humidity and apparent temperature but lack of rainfall. Water use in the second quarter (build up, toward start of wet season) varies. Interestingly, despite the unusually dry build up water use in the second quarter was 10% less than the same time last year.

Casuarina Pool and Civic Centre Water Audit

Staff has worked with the Living Water Smart team (Power and Water Corporation) to undertake water audits of Casuarina Pool and the Civic Centre. The water auditing process includes the installation of data loggers for approximately one month prior to the audit. Living Water Smart staff analyse this data and then perform an onsite audit. Results for Casuarina Pool suggest a background leak is present, which is being investigated. Improved irrigation at the site will also deliver water and cost savings. Water efficiency recommendations for the Civic Centre include changes to the cooling tower settings and improved behaviour change initiatives.

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3. Waste is reduced

Detailed waste data is reported separately through *Waste and Recycling Quarterly Reports*.

Garage Sale Trail

The Garage Sale Trail is a national initiative that City of Darwin committed to for the first time, held on 24 October 2015. The event resulted in positive community engagement and awareness raising around reuse and diverting waste from landfill. Garage Sale Trail is held in October annually. A summary report is provided in **Attachment A** to this report. City of Darwin has been invited to participate in a national steering committee for this event.

4. Biodiversity is maintained across Darwin

An assessment of Green Spaces across the Darwin municipality was undertaken during this period, with a report expected in the next quarter. The purpose of the assessment was to better understand the nature of green spaces within its responsibility including:

- Urban and suburban parks and reserves
- Connections between natural environment and modified green spaces
- Biodiversity value of natural habitats (and modified green spaces)
- Refuges and fragments
- Areas of conservation significance – with a focus on areas zoned Conservation, or with the potential to be zoned Conservation.
- Areas of historical or cultural significance

The objectives of the assessment were:

1. Define and **quantify** green space the City of Darwin is responsible for across the municipality
2. Determine the **quality** of Council's green spaces
3. Determine the **connectivity** between these spaces (this will include significant street tree connections and linkages)

5. Erosion on Council land is managed

Erosion measures continue to be implemented as per the Erosion Management Plan.

6. The Built Environment supports sustainable lifestyles

Sustainable House Day Forum

On Friday 11 September a lunchtime forum was held to discuss sustainable housing design, in honour of Sustainable House Day. Three speakers, Jo Best (Troppo Architects), Keith Savage (Property Council of Australia) and Jessica Steinborner (Smart Cooling in the Tropics) presented case studies in sustainable housing before opening up for a lively and very interactive forum discussion.

Sustainable Urban Living Seminar – featuring Josh Byrne

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On Thursday 22 October Josh Byrne (well known as the Western Australian presenter on ABC's iconic Gardening Australia program) presented a sustainable urban living seminar, sharing his experiences with creating and maintaining these energy and water efficient family homes. He also discussed his role in the CRC for Low Carbon Living and his involvement in developing sustainable homes and precincts around Australia.

Over thirty people attended both of the events above, representing government planners, local government, private planning consultants, Power and Water Corporation and the general public.

Bike Plan Education

Implementation of the education component of the Bike Plan commenced in the new financial year, with planning for Ride2Work Day dominating activities during this period. Engagement with key stakeholders such as bike user groups and the Department of Transport has focused on initiatives into bicycle wayfinding, bicycle parking and broad communication strategies.

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

- Team Coordinator Building Services
- Team Leader Building Services
- Recreation And Healthy Lifestyle Coordinator

In preparing this report, the following External Parties were consulted:

- Planet Footprint
- Living Water Smart (Power and Water Corporation)

POLICY IMPLICATIONS

Activities described in this report are consistent with the actions and outcomes of the Climate Change Action Plan (2011-2015) and City of Darwin Policy No. 59 Climate Change.

BUDGET AND RESOURCE IMPLICATIONS

All activities have been completed within operational budgets.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Nil

ENVIRONMENTAL IMPLICATIONS

Activities described in this report are inherently beneficial to the environment.

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DECEMBER 2015

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

SHENAGH GAMBLE
MANAGER CLIMATE CHANGE &
ENVIRONMENT

MARK BLACKBURN
EXECUTIVE MANAGER

For enquiries, please contact Shenagh Gamble on 89300530 or email:
s.gamble@darwin.nt.gov.au.

Attachments:

Attachment A: Garage Sale Trail Campaign Report 2015 Impacts

DATA AND TRENDS

Information in this report is based on 2015 registration data from garagesaletrail.com.au as well as the results of the 2015 Seller Survey which was completed by 28% of individual and group sale organisers (2,344 people). The numbers provided in the report may differ from those included in your council dashboard, as this data

is based on actual 2015 outcomes versus 2014 averages that powered the dashboard.

Media data is provided by media monitoring organisation iSentia.

LGA specific data is generally calculated using local outcomes multiplied by state averages.

Key national trends



Council participation up

23%

164 councils participated in Garage Sale Trail this year, up from 133 councils in 2014.

The percentage of participants who know councils are powering the program increased **from 69% in 2014 to 76% this year.**

For the first time this year, access to the program was capped for residents living in non-participating council areas.



Shopper attendance increased

40%

One of the key objectives for this year was to increase shopper attendances at garage sales, this was achieved with a **40% increase.** The average number of shopper attendances at garage sales increased from 30 to 42.

As a result of more shoppers, the amount made by householders at their garage sale also increased - average takings for a household sale went from **\$273 in 2014 to \$308 in 2015.**



75%

of participants are more conscious of the role they can play in reducing waste as a result of taking part in Garage Sale Trail, up from **71% last year**

66%

may not have organised a garage sale if it weren't for Garage Sale Trail

The reuse and waste education message is making an impact

40% of media secured this year referenced reuse or included waste education messages. This combined with other waste education initiatives such as the Reuse Display Kit and illegal dumping Facebook poll, helped to educate participants on the role they can play in waste reduction.



71%

of shoppers

feel more connected to their community as a result of taking part in Garage Sale Trail

64%

of sellers

Participants feel even more connected to their community

On average, sellers meet 20 new people on the day and will keep in touch with half of those they meet.



Federal Government funding opens up the program to a wider audience

Support from the Federal Government helped to make Garage Sale Trail more accessible to a non-English speaking audience this year. Included in the initiatives to make the program more accessible was the introduction of translation functionality on the website to over **90 languages** and the translation of marketing materials to the most commonly spoken languages.

MEDIA OUTCOMES¹



National

40,073,153

Cumulative campaign media reach



NT

376,067

Cumulative campaign media reach



Your LGA

117,556

Cumulative campaign media reach in your LGA

Media highlights



National

1,491

Media outcomes nationally



TV

Channel 10, The Project: 23.10.15 / 3 mins 31 secs

Audience reached: 630,000

RADIO

Radio National, Breakfast: 23.10.15 / 3 mins 29 secs

Audience reached: 121,000



NT

33

Media outcomes in your State

TV

Channel 9 Darwin, Nine News: 24.10.15/ 2 mins 21 secs

Audience reached: n/a

PRINT

Darwin Sun: 7.10.15/ page 21

Audience reached: 31,438

PRINT

Northern Territory News: 24.10.15/ page 11

Audience reached: : 19,706

RADIO

105.7 ABC Darwin, Saturday Breakfast: 24.10.15/ 6 mins 48 secs

Audience reached: n/a



Partnerships & Community Service Announcements

- TV Community Service Announcement screened on the following channels: Channel 7 and Foxtel
- Radio Community Service Announcement aired on the following stations: Prime, Mix 104.9, Territory FM, 8HOT FM

MARKETING OUTCOMES



218,737

unique users to
garagesaletrail.com.au, up
15% on last year



2,468,617

page views on
garagesaletrail.com.au



1,012,669

reach of Garage Sale Trail's
Facebook, Instagram and
Twitter social media campaign



28,969

people subscribed to
Garage Sale Trail
e-newsletters



The website

Improvements were made to the website:

Seller dashboard – digital promotional materials provided for all sellers

Shopper functionality - Treasure Trail and shopper Search Alerts

Enhanced group sale functionality - allowing stalls to register as a part of group sales

91% of sellers said they found it easy to register a sale this year.

Feedback has been sought from councils and sellers to further improve the website in 2016. The main areas identified are: the map, group sales, image uploads and printing of Treasure Trails.



Sellers as marketing channels

A key marketing objective for 2015 was to enable sellers to better promote the program. To do this, promotional materials (including posters and social media assets) were provided via an online seller dashboard.

Half of all sellers downloaded materials from the dashboard to help them promote their sale

15,538 materials were downloaded by sellers in total, a ten fold increase on last year

Almost **1,000** people shared photos using **#garagesaletrail** on the day (24 October)

2,500 seller packs containing posters, flyers and information on what to do with unsold items were mailed to sellers

How people heard about Garage Sale Trail



25%

Newspaper / Magazine



24%

Council



18%

Social Media



17%

Friends / Family member



10%

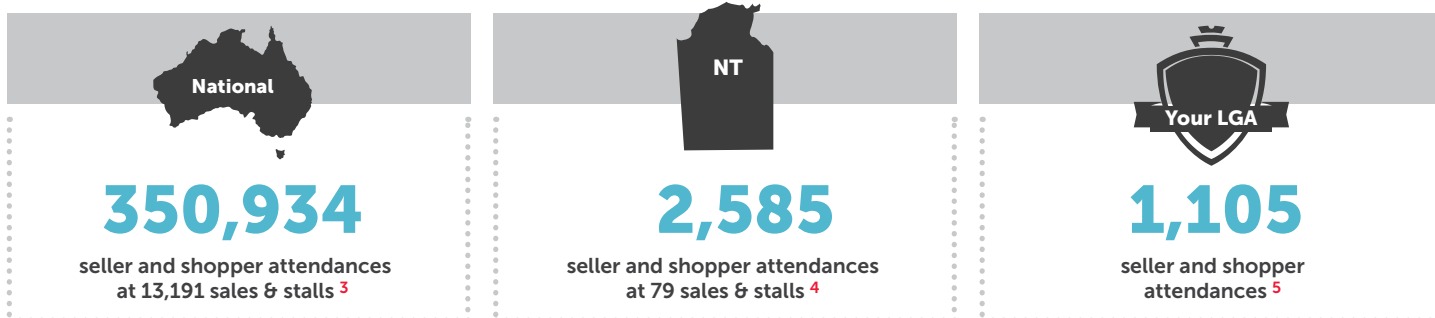
Television

The biggest increase in how people heard about Garage Sale Trail this year was in social media, up 68% on last year. This reflects a number of new factors including: more social media assets available for councils and sellers to share, investment in Facebook advertising as well as the introduction of a more strategic content and sharing plan for social media.

The number of people who heard about the program through their council also increased by 20%.

There was a significant decrease in the number of people who heard about Garage Sale Trail through radio, reflecting the fact that ABC Radio were not a partner in 2015 (as they have been in previous years).

2015 PARTICIPATION OUTCOMES



Number of Sales in your LGA



A note on more accurately collecting data relating to group sale data

From the data, we know that group garage sales involve many more seller households and shoppers. Given this, and as the number of group sales has increased significantly year on year, for the first time this year group garage sales are not being measured and reported in the same way as individual garage sales. Group sales represent more people and households than individual sales and are being reported to reflect that.

22% of group sale organisers used the group sale/stallholder functionality and where this is the case, this data has been combined with the individual sale number to calculate a new sales and stalls figure for your LGA. For the remaining group sales, an average number of stalls for each of the group sales in your LGA has been calculated. This calculation is based on 2015 data, which shows that 66% of the stall limit set at registration will be achieved on the day.

Your LGA



³ Sellers = number of sales x national average for the number of people involved/sale. Shopper attendances = number of sales x national average for the number of shoppers/sale

⁴ Sellers = number of sales x state average for the number of people involved/sale. Shopper attendances = number of sales x state average for the number of shoppers/sale

⁵ Sellers = number of sales in your LGA x state average for the number of people involved/sale. Shopper attendances = number of sales in your LGA x state average for the number of shoppers/sale

⁶ Sales + Stalls = number of individual sales + the number of stalls at group sales in your LGA

⁷ Number of sales in your LGA x state average for the number of seller households involved

⁸ Shopper attendances = number of sales in your LGA x state average for the number of shoppers/sale

WASTE AND ENVIRONMENT OUTCOMES



National



2,846,727

number of items listed for sale / reuse



54,446

number of trolleys of stuff redistributed⁹



16,029,261

cumulative media reach of stories that carried waste education messages



66%

people who may not have had a garage sale if it were not for Garage Sale Trail¹⁰



NT



15,534

number items listed for sale / reuse



354

number of trolleys of stuff redistributed¹¹



150,427

cumulative media reach of stories that carried waste education messages



67%

people who may not have had a garage sale if it were not for Garage Sale Trail¹⁰

Your LGA



3,195

number of items listed for sale / reuse



148

number of trolleys of stuff redistributed¹²



72%

people think differently about waste as a result of taking part¹³



100%

of participants pledged not to illegally dump

9. Sales x national average for trolleys redistributed/sale

10. Sellers were asked the following question in the survey: Would you have had a garage sale this year if you hadn't participated in Garage Sale Trail? Relevant state & national averages were applied.

11. Number of sales x state average for trolleys redistributed/sale

12. Number of sales in your LGA x state average for the number of trolleys redistributed/sale

13. Sellers were asked the following question in the survey: As a result of taking part in Garage Sale Trail do you feel more conscious about the role you can play in decreasing the amount of waste you generate? State average.

COMMUNITY OUTCOMES



160,427

number of new community interactions on the day ¹⁴



906

number of new community interactions on the day ¹⁵

Your LGA



395

number of new community interactions on the day ¹⁶



81%

people are more proud of their community as a result of taking part ¹⁷



196

number of long term connections ¹⁸

¹⁴. Number of sales x national average for the number of new community connections made on the day

¹⁵. Number of sales x state average for the number of new community connections made on the day

¹⁶. Number of sales in your LGA x state average for the number of new community connections made on the day

¹⁷. Sellers were asked the following question in the survey: Does participating in Garage Sale Trail make you feel more a part of your community? State average.

¹⁸. Number of sales in your LGA x the state average for the number of long term community connections made on the day. A long term community connection is someone a seller will say hello to again

ECONOMIC OUTCOMES



\$2,950,070

total funds
generated at garage sales ¹⁹



\$20,490

total funds
generated at garage sales ²⁰

Your LGA



\$310

Average amount made /
household sale



\$625

Average amount made /
group sale



\$8,695

Total funds generated at
garage sales ²¹

¹⁹. Number of sales x national average for the amount made/ sale

²⁰. Number of sales x state average for the amount made/ sale

²¹. Number of sales in your LGA x state average for the amount made/ sale

COUNCIL PARTICIPATION



National



164

councils participating nationally



51%

of the population represented



NT



3

councils participating in NT



76%

of the NT population represented

WHAT YOUR RESIDENTS THINK



87%

number of people who know their council powered the program ²²



94%

number of sellers who would consider doing it again



90%

think their council should support the program ²³

²² Sellers were asked the following question in the survey: Were you aware that your council is supporting Garage Sale Trail this year? State averages.

²³ Sellers were asked the following question in the survey: Garage Sale Trail is made possible by a small contribution from council. Do you think this is a good use of council money? State averages.



TO THE 164 COUNCILS OF AUSTRALIA POWERING THE REUSE MOVEMENT



WELL PLAYED!



CONTACT

EMAIL:
COUNCILMANAGER@GARAGESALETRAIL.COM.AU

WEBSITE:
WWW.GARAGESALETRAIL.COM.AU

FACEBOOK:
FACEBOOK.COM/GARAGESALETRAIL

TWITTER:
TWITTER.COM/GARAGESALETRAIL

INSTAGRAM:
INSTAGRAM.COM/GARAGESALETRAIL



ENCL: NO	ENVIRONMENT & INFRASTRUCTURE COMMITTEE/OPEN	AGENDA ITEM: 10.4
EAST POINT BIODIVERSITY MANAGEMENT PLAN QUARTERLY REPORT - JULY TO DECEMBER 2015		
REPORT No.: 15TC0083 SG:nj	COMMON No.: 2415691	DATE: 16/02/2016

Presenter: Manager Climate Change & Environment, Shenagh Gamble

Approved: Executive Manager, Mark Blackburn

PURPOSE

The purpose of this report is to provide an update on the East Point Reserve Biodiversity 5 Year Management Plan 2014-2018.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

3 Environmentally Sustainable City

Outcome

3.3 Conserve and protect the Darwin environment

Key Strategies

3.3.2 Increase biodiversity richness and abundance across Darwin

KEY ISSUES

- This report comprises two quarters, July to September and October to December.
- Revised East Point Biodiversity Management Plan actions have been implemented within normal operational duties and are on track.
- A register of research activities at the Reserve has been compiled
- Community tree planting day on Thursday 3 December planted over 1800 trees

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

THAT Report Number 15TC0083 SG:nj entitled East Point Biodiversity Management Plan Quarterly Report - July to December 2015, be received and noted.

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 REPORT - JULY TO DECEMBER 2015

BACKGROUND

At the 2nd Ordinary Council Meeting of 25 August 2015 Council confirmed the decision:

- A. *THAT Report Number 15TC0048 SG:nj entitled East Point Biodiversity Plan Quarterly Report - April To June 2015, be received and noted.*
- B. *THAT Council endorse the reviewed actions for the East Point Reserve Biodiversity 5 Year Management Plan 2014 2018 given in **Attachment B** to Report Number 15TC0048 SG:nj entitled East Point Biodiversity Plan Quarterly Report - April To June 2015*

DECISION NO.21\3642 (25/08/15)

DISCUSSION

This report provides an update on progress of the East Point Reserve Biodiversity 5 Year Management Plan 2014 2018 (the Plan). The Climate Change & Environment (CCE) and Parks & Reserves teams have been implementing the actions of the Plan to manage and improve the environmental quality of the Reserve. As the plan is now in its third year with many of the actions being ongoing works, updates of the Plan will now continue on a six monthly basis.

Table 1 overleaf contains an overview of actions during this period, with more significant actions discussed in detail below.

Action 2 Increase the current extent of rainforest through strategic revegetation and reduce edge effects.

On Thursday 3 December 2015 CCE and the Parks teams held a community tree planting day. Two sessions were held - one in the morning for school children and one in the afternoon for the general public. Four schools (Kormilda College, Henbury School, Marrara College and Anula Primary School) participated in the morning with over 300 students attending to help plant and water 1300 trees. An additional 500 trees were planted in an afternoon community sessions with 35 community participants.

This was the first year schools were engaged to assist with planting. The proficiency of the students in planting trees was overwhelming and resulted in more trees than expected being planted. To build on this success CCE has committed to continue this engagement with schools.

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Image 1: Schools community tree planting day 2015 Anula Primary school students

Action 8 Continue to support external stakeholders undertaking research at the Reserve.

A number of research projects have been active at the Reserve this quarter including:

- a PhD student from CDU starting seed biology research in relation to the establishment of monsoon forest in remnant and rehabilitated rainforest patches;
- CDU Honorary research fellow John Rawsthorne continues his research into birds of East Point Reserve which will look at bird biology and the importance of urban habitat on population numbers;
- Fiddler crab research and monitoring has continued by researchers associated with ANU;
- CDU Diploma of Conservation Land Management students access the Reserve to monitor mangrove ecosystems as part of their training.

CCE are developing a register of research carried out within the Reserve for future reference, an extract of current research from database included in Table 2 below.

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Title	Research Outline	Conducted by	Research Organisation
Seed Biology and Establishment Ecology for Coastal vine forest restoration at E.P.	PhD student from CDU seed biology research.	Ms V.Sarvanandar PhD- supervisor Sean Bellairs	CDU
Mangrove research as part of CLM studies.	Diploma Conservation & Land Management - students have accessed the reserve for monitoring of mangroves.	Rebekah Revesz	CDU
Fiddler Crab research	Fiddler crab research - Crabs at low tide.	Professor Pat Backwell	ANU
Darwin birds - survivorship, breeding and community composition.	Research into birds of East Point Reserve looking at bird biology and the importance of urban habitat on populations.	John Rawsthorne	CDU - Research Institute for Environment and Livelihoods
Cane toad management and reptile research	Frogwatch reptile capture and research as well as cane toad population investigation and 'toad busts'.	Graeme Sawyer	Frogwatch

Table 1: Research being conducted at East Point Reserve as at December 2015

Action 10 Install an artificial Osprey nesting platform.

The action is progressing and after consultation with Department of Lands Planning and Environment several potential locations for the Osprey platform have been ruled out, due to storm surge zones. The most appropriate location for the structure is within the central part of the East Point Equestrian club. By placing the platform within the zoned organised recreation area of the Equestrian club the platform may be exempt from planning approvals and is separated from general public access, reducing likelihood of vandalism or interference.

Several avian experts have confirmed the proposed location as suitable for attracting osprey as it is secure (behind fence line), has line of site to the ocean and suitable surrounding tree height.

There is an opportunity to construct the platform out of reclaimed materials, to reduce costs and resource intensity.

Action 11 Continue wallaby population surveys on a quarterly basis.

The last wallaby survey for 2015 was conducted in September with a total of 120 wallabies counted. This survey identified an increase in juvenile wallabies with 37 joeys being visible in the count.

Ten wallabies have been found deceased in this period, with all deaths apparently due to vehicle interactions. Parks staff have increased barriers around the reserve at

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known access points and are monitoring for any further deaths and inappropriate access. Infrastructure damage associated with the inappropriate access has been reported to the police and all wallaby deaths have been reported to the Parks and Wildlife Commission.

Other actions outlined below;

Action	Management Action	Update July - December 2015
Action 1	a) Undertake vegetation monitoring survey	Some vegetation assessment conducted as part of the Green Spaces contract. Monitoring survey not due until 2017
	b) Undertake fauna survey	Survey due 2016
Action 2	Increase the current extent of rainforest through strategic revegetation and reduce edge effects.	A community tree planting day was held on Thursday 3 December. Five schools attended the morning session bringing over 300 students to help plant 1300. A general community tree planting session planted an additional 500 plants.
Action 3	Continue regular vegetation management such as controlled thinning of the upper stratum.	Inspecting of forest area continued no significant maintenance undertaken besides weed identification and removal.
Action 4	Plant Atlas Moth larvae food plants <i>Croton habrophyllus</i> , <i>Litsea glutinosa</i> and <i>Pittosporum molluccum</i> in revegetation works.	These species were included in the December community tree planting day plants.
Action 6	Continued control of all weed species.	Removal of Neem and Curry Leaf has continued. Poisoning of large infestations and general weed spraying was undertaken see Figure 1.
Action 8	Continue to support external stakeholders undertaking research at the Reserve.	Several researchers have utilised the reserve this quarter including a PhD student from CDU starting seed biology research.
Action 10	Install an artificial Osprey nesting platform.	Investigations of appropriate placement of the platform and planning permits required are continuing.
Action 11	Continue wallaby population surveys on a quarterly basis.	Wallaby Survey conducted in September: 120 wallabies.
Action 13	Monitor and control introduced fauna species where appropriate.	19 cane toads have been removed from the Reserve by Council. Council has also facilitated Conservation Volunteers and Frogwatch to undertake toad busts within the Reserve.

Table 1: Overview Management Actions July – December 2015

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Figure 1: Weed Removal East Point Reserve July-December 2015

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

- Parks and Reserves Coordinator
- Team Leader Central and Urban Precinct

POLICY IMPLICATIONS

This report and associated management plan is in keeping with all relevant Council policies including the City of Darwin *Strategic Plan Evolving Darwin Towards 2020* and *Climate Change Action Plan 2011-2020*.

BUDGET AND RESOURCE IMPLICATIONS

Actions within the plan are completed within the operational budget.

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RISK/LEGAL/LEGISLATIVE IMPLICATIONS

This plan aligns to both National and Northern Territory Government legislation including *Wildlife Conservation Act 2000*, *Weeds Management Act 2001* and *Environment Protection and Biodiversity Conservation Act 1999*.

ENVIRONMENTAL IMPLICATIONS

This plan aims to maintain and improve biodiversity at East Point Reserve and will have positive environmental implications.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

SHENAGH GAMBLE
MANAGER CLIMATE CHANGE &
ENVIRONMENT

MARK BLACKBURN
EXECUTIVE MANAGER

For enquiries, please contact Shenagh Gamble on 89300530 or email:
s.gamble@darwin.nt.gov.au.

ENCL: NO	ENVIRONMENT & INFRASTRUCTURE COMMITTEE/OPEN	AGENDA ITEM: 10.5
CAPITAL WORKS - DECEMBER 2015 QUARTERLY REPORT		
REPORT No.: 16TS0015 NK:jg	COMMON No.: 1541601	DATE: 16/02/2016

Presenter: Manager Design Planning & Projects, Drosso Lelekis

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide an update on the status of Capital Works projects within the 2015/2016 budget, for the October to December 2015 Quarter.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

5 Effective and Responsible Governance

Outcome

5.5 Responsible financial and asset management

Key Strategies

5.5.1 Manage Council's business based on a sustainable financial and asset management strategy

KEY ISSUES

- This report updates Council on the progress of the 2015/2016 Capital Works projects managed by the Infrastructure Department (total \$32.08 million) for the October to December 2015 Quarter.

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

- A. THAT Report Number 16TS0015 NK:jg entitled Capital Works - December 2015 Quarterly Report, be received and noted.

PAGE: 2
 REPORT NUMBER: 16TS0015 NK:jg
 SUBJECT: CAPITAL WORKS - DECEMBER 2015 QUARTERLY REPORT

BACKGROUND

City of Darwin's 2015/2016 Capital Works Budget at 30 December 2015, is \$37.4 million.

At the end of December 2015, City of Darwin has committed or completed projects to the value of \$16.7 million, which represents 44.6% of the City of Darwin's total Capital Works Budget.

Of the total Council Capital Works Budget, \$32.08 million is directly managed and delivered by the Infrastructure Department. This report focuses on the progress of projects within the Infrastructure Department.

DISCUSSION

At the end of December 2015, the Infrastructure Department has committed or completed projects to the value of \$15.3 million, which represents 47.70% of the total Infrastructure Department's component of the City of Darwin's Capital Works Budget. A number of the significant projects are subject to separate reports and decisions of Council.

The following is a summary of the status of several significant valued projects within the 2015/2016 Infrastructure Capital Works Program at the end of December 2015:

Road Resurfacing: \$2.7 million - 28% committed or completed

A number of projects have been completed under a previously existing contract, which has now concluded.

A new contract for this program has been awarded.

Work commenced in December 2015. Works that have been completed to date are:

- Mott Ct
- Chin Quan Rd
- Casino Dr
- Austin Lane

Playground Refurbishment: \$1.5 million – 42% committed or completed

The statuses of several projects within this program are as follows :

Playground refurbishment 2015/16 - \$93k

- Community consultation was undertaken in November 2015 for the refurbishment of Parkside Park, Leanyer and Dwyer Park, The Narrows. Procurement for the equipment is underway with construction envisaged in April 2016.

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Holtzerland Park Playground refurbishment - \$45k

- Construction completed in December 2015.

Anula Regional Playground additional shading - \$50k

- Project was re-scheduled while community consultation was undertaken regarding the refurbishment of the Anula Regional Playground. Works will coincide with the major upgrade of the playground, expected to commence in April 2016.

Anula Regional Playground refurbishment - \$400k

- Community consultation was completed in September 2015, with 74 responses received. Tender advertised in December 2015. It is envisaged that the refurbishment will be undertaken in April 2016.

Playground Shade - \$778k

- A Tender for 50% of the full endorsed annual program has been awarded and construction will commence in February 2016. The balance of the program will be advertised for tender in February 2016. All works will be completed by 30 June 2016.

Stormwater Upgrades: \$713,000 - 39% committed or completed

2015/16 Program consists of the following projects which are currently under design or construction.

- 259 Casuarina Drive, Nightcliff
- 25 Drysdale Street, Parap
- 71 Benison Road, Winnellie
- 20 Harney Street, Ludmilla
- Sanders Street, Jingili

Shared Path Construction and Reconstruction: \$1.3 million - 50% committed or completed

The 5 year Bike Plan Implementation Plan has been accelerated due to grant funding received from the NTG, for the delivery of years 1-3 inclusive of the infrastructure components of the Bike Plan.

Works have commenced in accordance with Council's endorsed Bike Plan.

Pathway Construction and Reconstruction: \$867,763 - 63% committed or completed

The program has been developed, community consultation has been undertaken and construction completed on the following paths:

- 10 Knuckey Street, Darwin CBD;
- Gardens Road, The Gardens:
- Marina Boulevard, Cullen Bay:
- De Latour Street, Coconut Grove: and
- Valder Cres, Nightcliff.

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Roads to Recovery (Esplanade Upgrade Project): \$3.7 million - 100% committed or completed

Construction commenced on 15 July 2015 and it is scheduled for completion by late February 2016. The total project cost is estimated at \$3.5 million and the roadworks are funded by the Australian Government.

Weather and some service related issues have resulted in delays to completion.

Coastal Erosion: \$2.2 million - 62% committed or completed

The status of projects within this program is as follows:

Coastal Erosion Management Plan - \$1.5 million

- Design and documentation for the Nightcliff North rock seawall has been finalised. Environment Protection and Biodiversity Conservation Act self-assessment has been undertaken and an Aboriginal Areas Protection Authority Certificate has been obtained for the works.
- Contract for these works has been awarded.
- Works are expected to commence in February 2016.

Rock Wall Kurrajong Street – \$150,000

- Stage 2 of the project has been completed.

Sea Wall Sunset Park - \$500,000

- Contract for these works has been awarded.
- Works to commence in January 2016.

Darwin City Centre Master Plan Projects: \$4.2 Million - 17% committed or completed

An overall communication plan for the Master Plan Projects has been developed and discrete community consultation plans are being developed to suit individual projects.

The following table provides a summary of the progress of each of the identified projects:

Project	Status
MP002 Smith Street/The Esplanade Intersection Treatment	Tenders were advertised in April 2015 and responses received were in excess of the available budget. This project has been reviewed and the tender re-advertised in December 2015. Tenders close at the end of January 2016.
MP009 Bicentennial Park Space	Community consultation commenced on Friday 2 October 2015 with a report to Council on the outcomes of the consultation process expected February 2016.
MP012 Esplanade Parade	On-hold, pending outcomes of the City Play Space and Esplanade Reconstruction works.

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Project	Status
MP013 Smith Street Upgrade	Brief being developed with submissions to be called in February 2016. Concept design for Smith Street, from Knuckey Street to Daly Street, including staging plan. Implementation with Stage 1 expected to be delivered.
MP032 Smith– Daly Street Intersection	Intersection analysis concept design and cost estimation of the works have been completed. Council has been successful in securing funding from the Black Spot Program to the value of \$550,000. This project is the subject of a separate report to Council. Consultation is occurring with stakeholders regarding bike lane treatments with a report to Council expected in February 2016.
MP036 Smith–Bennett Street Intersection	Tenders were advertised in April 2015 and responses received were in excess of the available budget. This project has been reviewed and the tender re-advertised in December 2015. Tenders close at the end of January 2016.
MP037 Tamarind Park Upgrade	Project completed.

CBD Public Toilet - \$350,000

The CBD Park Public Toilet Project formed a report to the 1st Ordinary Council Meeting on 9 February 2016 – Report No 16TS0007 DL:jw New Public Toilet – Alternate Site Investigation.

Council resolved that the location of the New Public Toilet be on the North East side of the Browns Mart office building, adjacent to the eastern corner in Civic Park.

The installation of the new public toilet in Civic Park is set to commence.

Photovoltaic System Operations Centre - \$200,000 - 100% committed or completed

The PV system is now operational.

Photovoltaic System Nightcliff and Casuarina Pools - \$160,000

Final approvals have been received from Power Water Corporation. Tenders for the project have closed and are currently under assessment. Installation to commence in 3rd quarter.

Emergency Back Up Generators Civic Centre - \$335k - 100% committed or completed

Project completed.

Monty's On The Mall - \$260,432 - 100% committed or completed

Project completed.

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Gardens Park Lake - \$70,114 – 100% committed or completed

De-silting operations were undertaken on the lake during the month of September 2015. The lake was drained of water and approximately 1,600 cubic metres of silt material was removed using specialised amphibious earthmoving equipment and a major drainage channel was cleaned. While these operations were carried out and the lake was drained of water, the opportunity was taken to undertake a detailed survey. Geotechnical investigation of material removed was undertaken on the composition of the sediment material for disposal classification. Works encountered a number of issues and have ceased until consideration is given to what the next steps will be and what additional, if any, further de-silting is required to address stormwater requirements or amenity. A further report will be prepared for Councils' consideration on the project in April 2016. The lake has been re-filled. No further de-silting will occur at this stage.

Nightcliff Community Hall Air Conditioner - \$214,523

AC plant installation is complete. Final commission and operation to be completed once Main Switchboard has been reconfigured, to allow metering of plant.

Bradshaw Terrace Urban Enhancement Project: \$81,532 – 74% committed

A contract for Creating an Urban Destination – Bradshaw Terrace has been awarded. The project scope includes the following elements:

- developing an Urban Enhancement Plan and Feasibility Study for Bradshaw Terrace;
- developing a preliminary design on the preferred option, including a summary report, staging options and cost estimates.

The project includes consideration of the treatment of Dripstone Road including on street parking.

Project will be the subject of a separate report to Council.

CONSULTATION PROCESS

Communication and engagement plans are implemented for the various projects as required.

In preparing this report, the following City of Darwin officers were consulted:

- Manager Finance
- Team Leader Capital Works
- Manager Infrastructure Maintenance
- Team Coordinator Cityworks
- Team Coordinator Parks and Reserves

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POLICY IMPLICATIONS

All works are undertaken with consideration of Council policies.

BUDGET AND RESOURCE IMPLICATIONS

As provided within the body of this report.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

All works undertaken within the Capital Works Program are undertaken in compliance with appropriate legislation.

ENVIRONMENTAL IMPLICATIONS

Deliverables from the projects identified within this report will have where practical, sustainable aspects built into them such as solar power, energy and water efficiency devices, and consideration of long-term maintenance outcomes.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

DROSSO LELEKIS
MANAGER DESIGN PLANNING &
PROJECTS

LUCCIO CERCARELLI
GENERAL MANAGER
INFRASTRUCTURE

For enquiries, please contact Drosso Lelekis on 89300414 or email:
d.lelekis@darwin.nt.gov.au.

ENCL:	ENVIRONMENT & INFRASTRUCTURE	AGENDA ITEM:	10.6
NO	COMMITTEE/OPEN		
INFRASTRUCTURE – DESIGN, PLANNING & PROJECTS - DECEMBER 2015 QUARTERLY REPORT			
REPORT No.:	16TS0016 DL:jg	COMMON No.:	1832896
		DATE:	16/02/2016

Presenter: Manager Design Planning & Projects, Drosso Lelekis

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide an update on the activities of the Infrastructure Department Design, Planning & Projects Section for the October to December 2015 Quarter.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.2 A sense of place and community

Key Strategies

2.2.3 Improve the landscaping, streetscape, infrastructure and natural environment

KEY ISSUES

- Fourty traffic and road safety issues raised by members of the community are being investigated or have been resolved.
- Community consultation on the proposed Darwin CBD on-street parking changes was undertaken.
- Community consultation on the proposed changes associated with the review of taxi parking in the Darwin CBD was undertaken.
- Work continued on the delivery of projects within Council's adopted upgrading program for the City of Darwin's traffic signals throughout the Darwin Municipality.
- Community consultations for the proposed Fannie Bay North traffic signals and Tambling Terrace proposed pedestrian crossing were undertaken.
- A community information process was undertaken for the Ryland Road Black Spot Projects approved by Council for implementation.
- Contracts for the construction of the Nightcliff North rock seawall- Stage 1 and Sunset Park seawall were awarded, with work to commence on-site in the 3rd Quarter.

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 REPORT NUMBER: 16TS0016 DL:jg
 SUBJECT: INFRASTRUCTURE – DESIGN, PLANNING & PROJECTS - DECEMBER
 2015 QUARTERLY REPORT

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

THAT Report Number 16TS0016 DL:jg entitled Infrastructure – Design, Planning & Projects - December 2015 Quarterly Report, be received and noted.

BACKGROUND

Quarterly reports on the activities of the Design, Planning and Projects section of the Infrastructure Department are provided to inform Council.

The key roles of the Design and Projects teams within the Design, Planning and Projects Section of the City of Darwin's Infrastructure Department are to undertake technical investigations, provide responses to external and internal stakeholder enquiries, facilitate designs and undertake construction of items both within the City of Darwin's Capital Works programs and as required.

The key roles of the Planning team within the Design, Planning and Projects section of the City of Darwin's Infrastructure Department are to assess and respond to Development Applications to the Northern Territory Government's Development Assessment Services, to report on Development Applications of particular significance to the City of Darwin and to assess, respond to and report on Alfresco Dining and Signage applications, respond to Northern Territory Planning Scheme amendment proposals and deal with Strategic Planning matters if and when they arise.

DISCUSSION

The following provides highlights of activities which have occurred in the Section during the October to December 2015 Quarter and is provided for Council's information:

Issues Investigated

- Approximately 40 traffic and associated road safety issues have been raised by members of the community and other stakeholders. These issues include;
 - pedestrian and road safety matters,
 - on-street parking,
 - speeding vehicles,
 - disability access, and
 - stormwater drainage problems.
- Of the 40 issues received around 30 have been, or are in the process of being resolved with the remainder under investigation and assessment.
- Any sites identified as requiring remedial works resulting from investigations will be prioritised against other works and programmed according to available budget in current or future years.

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 SUBJECT: INFRASTRUCTURE – DESIGN, PLANNING & PROJECTS - DECEMBER
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CBD Parking Strategy Implementation Plan

- Community consultation on the proposed on-street parking changes associated with the review of on-street parking in the Darwin CBD, including disabled and on-street parking zones, was undertaken.
- Community consultation on the proposed changes associated with the review of taxi parking in the Darwin CBD was undertaken.
- Separate reports will be presented to Council on the outcomes of the above mentioned community consultations in the next Quarter.

Darwin Bike Plan

- Work continued on the implementation of a number of the Year 1 to 3 (inclusive) construction and non-construction projects identified within the Darwin Bike Plan-Implementation Plan adopted by Council. These include the Malak greenbelt shared paths.

Traffic Signals

- Work continued on the delivery of projects within the upgrade program for the City of Darwin's traffic signals. These include the new count-down timers installed at the Knuckey Street signalised intersections at Mitchell, Smith and Cavenagh Streets.

Nightcliff North Rock and Sunset Park Seawalls

- Contracts for both the Nightcliff North rock seawall – Stage 1 and Sunset Park seawall were awarded and the delivery of these projects has commenced.

Darwin City Centre Master Plan

- Work continued on the delivery of a number of Darwin City Centre Master Plan projects, including the Smith Street/Daly Street intersection upgrade, Smith Street/Bennett Street and Smith Street/The Esplanade intersection upgrades and Bicentennial Park Community Play Space.
- A request for proposals was issued for the Darwin CBD Road Hierarchy Study identified within the Darwin City Centre Master Plan.

Proposed New Traffic Signals and Extension of Kurringal Court Extension at Fannie Bay North

- Community consultation (Level 2) for this project was completed and a report on the outcomes will be presented to Council in the next Quarter.
- Council's submission to the Northern Territory Government for funding was unsuccessful.

Proposed Tambling Terrace Proposed Pedestrian Crossing

- Community consultation (Level 2) for this project was completed and a report on the outcomes will be presented to Council in the next Quarter.

Ryland Road Black Spot Projects – Approved by Council

- A community information (Level 1) process was undertaken for these Council endorsed Black Spot projects.

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 REPORT NUMBER: 16TS0016 DL: jg
 SUBJECT: INFRASTRUCTURE – DESIGN, PLANNING & PROJECTS - DECEMBER 2015 QUARTERLY REPORT

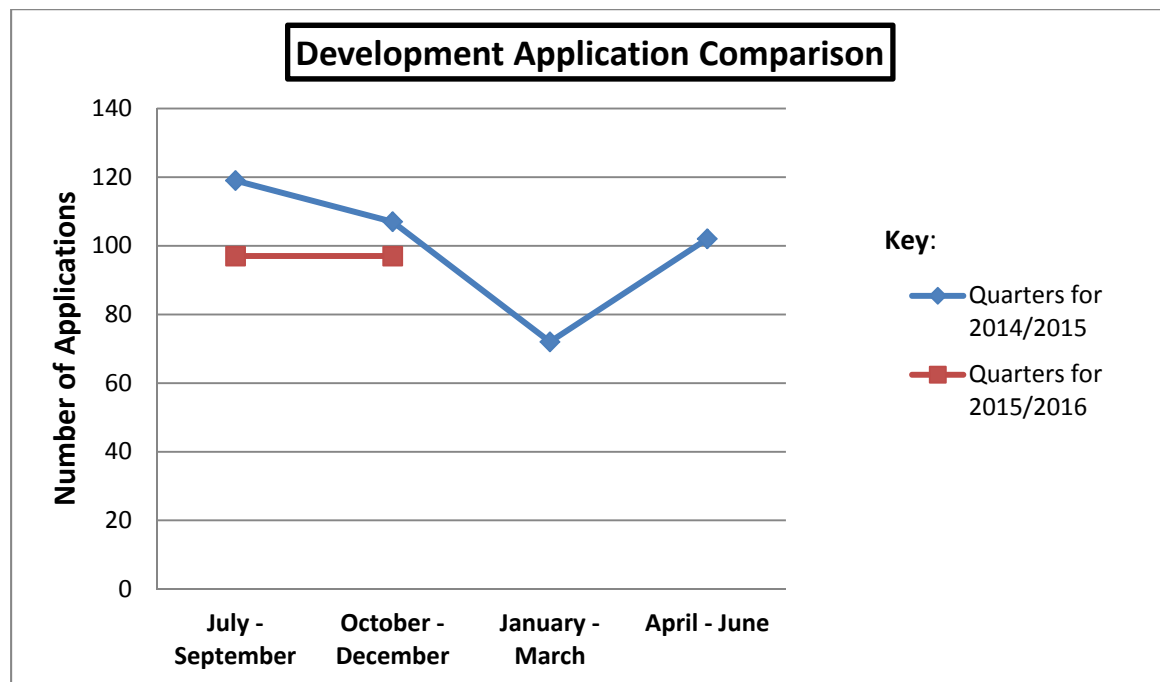
- It is envisaged that construction will commence in the next Quarter.

Development Applications

Council endorsed 98 letters in response to Development Applications made to the Northern Territory Government Development Assessment Services, for the Darwin Municipality in the October to December 2015 quarter.

Of the 98 Development Applications, 13 were the subject of individual reports to Council. Of the 13 reports presented to Council:

- 4 related to Strategic Planning matters;
- 5 were Summary Reports;
- 4 were generic development applications reports (rezoning)



Sign Applications

Nine sign applications were received and considered against the City of Darwin Policy No: 042 - Outdoor Advertising Signs Code in the quarter.

Of the nine sign applications:

- Four applications were the subject of individual reports to and approved by Council.
- Two applications were approved by staff (a blue finger and a moveable sign)
- Two applications are on hold, awaiting extra information (Council reports required for both applications), and
- One application is the subject of a report to Council in the next Quarter.

Sign Complaints

The City of Darwin received six complaints regarding advertising signs.

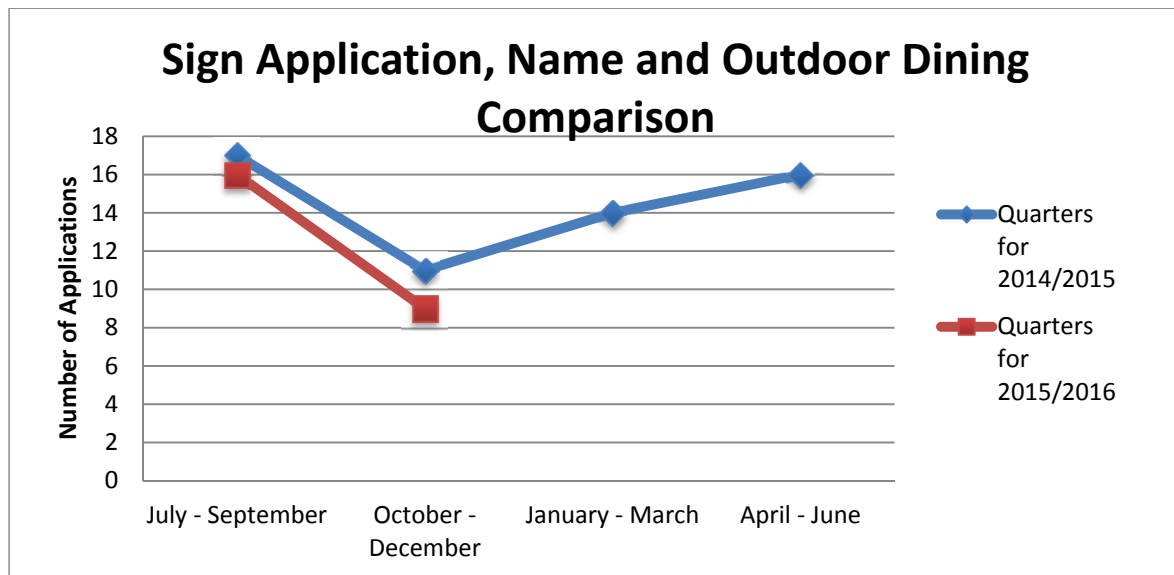
	Description	Comments
1	Variable Message Board displaying election advertising - Thrifty	Sign turned off by owner
2	Three x 3rd party moveable signs – Winnellie Shopping Centre	All signs removed
3	3rd party moveable sign – Darwin Block	Sign removed
4	Displaying too many moveable signs - Convenience On Evolution	All but one sign were removed
5	Banner displayed on private premises - Nightcliff Island protest	Sign removed
6	Two x Variable Message Boards displaying horse racing information – Darwin Turf Club	Signs removed

Place Names

There were no Place Name applications received during this Quarter.

Outdoor Dining

One application was received for Outdoor Dining during this period from Turnt Bar Restaurant, who withdrew their application as it did not comply with City of Darwin Policy No 011 - Outdoor Dining.



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 SUBJECT: INFRASTRUCTURE – DESIGN, PLANNING & PROJECTS - DECEMBER
 2015 QUARTERLY REPORT

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

- Strategic Town Planner.
- Team Leader Design.
- Team Leader Capital Works.

POLICY IMPLICATIONS

All works and activities are undertaken in accordance with the City of Darwin's policies.

BUDGET AND RESOURCE IMPLICATIONS

All of the activities are undertaken in accordance with the City of Darwin's 2015/16 Capital Works and/or Operational budgets.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Consideration of risk, legal and legislative requirements forms part of all considerations of works and activities undertaken by the section.

ENVIRONMENTAL IMPLICATIONS

Environmental considerations form part of all activities and assessments.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

DROSSO LELEKIS
MANAGER DESIGN PLANNING &
PROJECTS

LUCCIO CERCARELLI
GENERAL MANAGER
INFRASTRUCTURE

For enquiries, please contact Drosso Lelekis on 89300414 or email:
 d.lelekis@darwin.nt.gov.au.

ENCL: ENVIRONMENT & INFRASTRUCTURE
NO COMMITTEE/OPEN

AGENDA ITEM: 10.7

INFRASTRUCTURE MAINTENANCE QUARTERLY REPORT - DECEMBER 2015

REPORT No.: 16TS0017 KS:je

COMMON No.: 1887505

DATE: 16/02/2016

Presenter: Manager Infrastructure Maintenance, Kerry Smith

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide an update on the activities of the Infrastructure Department – Infrastructure Maintenance section for the October to December 2015 quarter.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the ‘Evolving Darwin Towards 2020 Strategic Plan’:-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.2 A sense of place and community

Key Strategies

2.2.3 Improve the landscaping, streetscape, infrastructure and natural environment

KEY ISSUES

Infrastructure maintenance completes routine, programmed and reactive maintenance tasks to ensure Council’s parks and reserves, road and path network, stormwater drainage network and buildings are provided in a safe, clean and serviceable condition to meet the expectations of the Darwin community.

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

THAT Report Number 15TS0194 KS:jm entitled Infrastructure Maintenance Quarterly Report – December 2015, be received and noted.

BACKGROUND

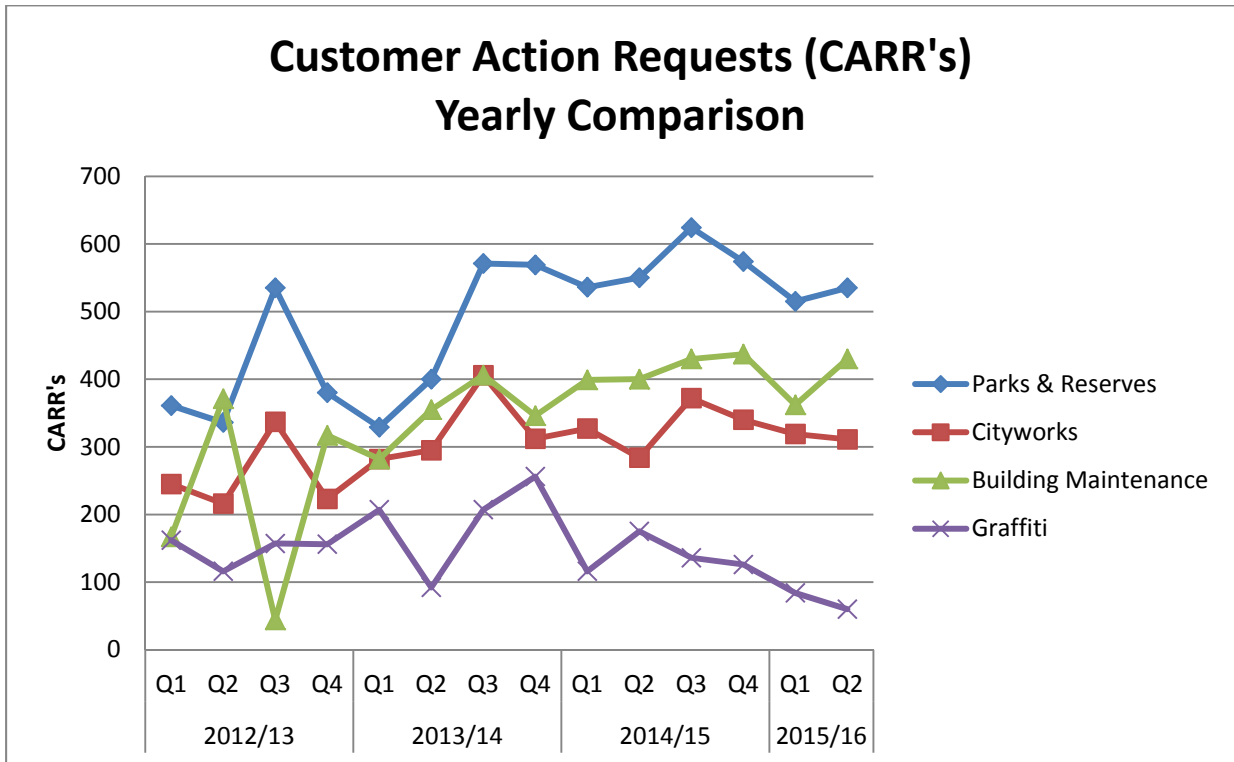
Quarterly reports provide a snapshot of the activities for the Infrastructure Maintenance section within the Infrastructure Department and are provided to inform Council of activities undertaken.

DISCUSSION

The following information provides a broad snapshot of activities and tasks undertaken through Council’s Infrastructure Maintenance section. This report also provides some understanding of the variety and quantity of work completed within the section.

Infrastructure Maintenance completes routine, programmed and reactive maintenance tasks to ensure Council’s parks and reserves, road and path network, stormwater drainage network and buildings are provided in a safe clean and serviceable condition to meet the expectations of the Darwin community.

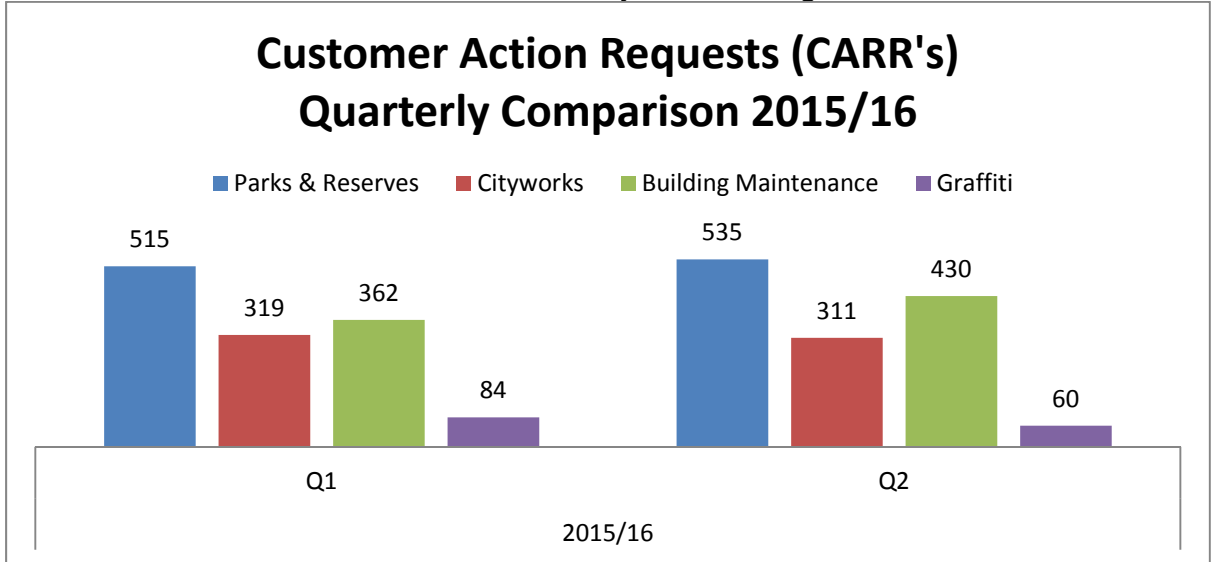
In addition to maintenance programs, capital works projects are completed with in-house staff and contractors.



The above graph represents a quarterly comparison of CARR’s since the 2012/13 financial year. The number of CARR’s for building maintenance was equal to the highest number recorded, last seen in the fourth quarter of 2014/15. Graffiti has had a steady decrease across the previous five quarters, with this quarter reaching the lowest value.

As CARR’s are generated by request the number can be heavily influenced by time specific factors such as a significant wet season.

As seen in the below graph, there was an increase from the previous quarter in customer action requests (CARR's) for parks and reserves and building maintenance. There was a decrease for city works and graffiti.

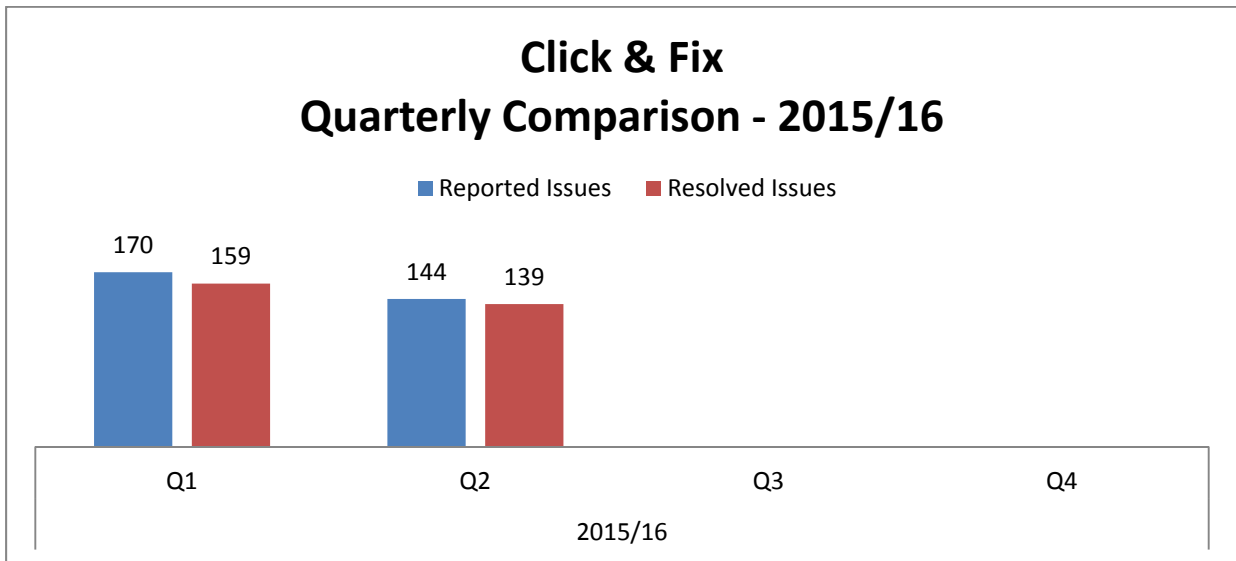


DARWIN CLICK & FIX

Below are the Darwin Click & Fix statistics for the current financial year for Infrastructure Maintenance Department. There was a decrease in the number of reported issues this quarter however the percentage of resolved issues increased.

Issues which are resolved in a quarter are brought forward and form part of the reported issues in the next quarter.

At the end of the 2nd quarter only 5 issues remained unresolved for the year to date.



A brief summary of works completed by business units within the section in the October to December 2015 quarter is as follows.

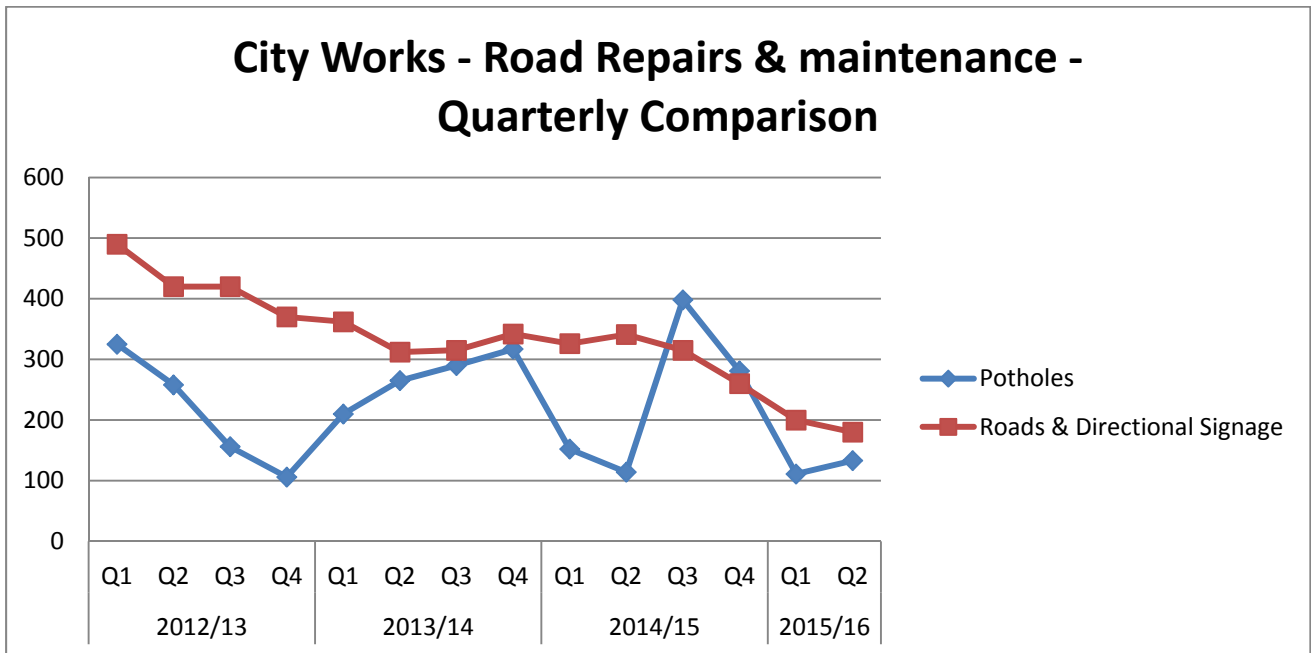
CITYWORKS

Cityworks actioned 311 Customer Action Requests this quarter in addition to programmed and reactive maintenance tasks.

Repairs and Maintenance

- Approximately 160 lineal metres of kerb and gutter replaced.
- 400 lineal metres of 1.2m wide footpath replaced;
- Approximately 50m² exposed aggregate concrete footpath replaced.
- Storm water network repairs;
 - 20 side entry pits (SEPs) replaced,
 - 30 side entry pits repaired,
 - Approximately 150 side entry pits cleared.
- One (1) walkway reconstructed 350m² (Bitumen & Concrete),
- Installation of new bollards to two (2) walkways,
- Approximately 133 potholes repaired.
- 300 metres CCTV investigation on the storm water drainage system
- 180 road and directional signs repaired or replaced.
- 20 debris bars installed to SEPs

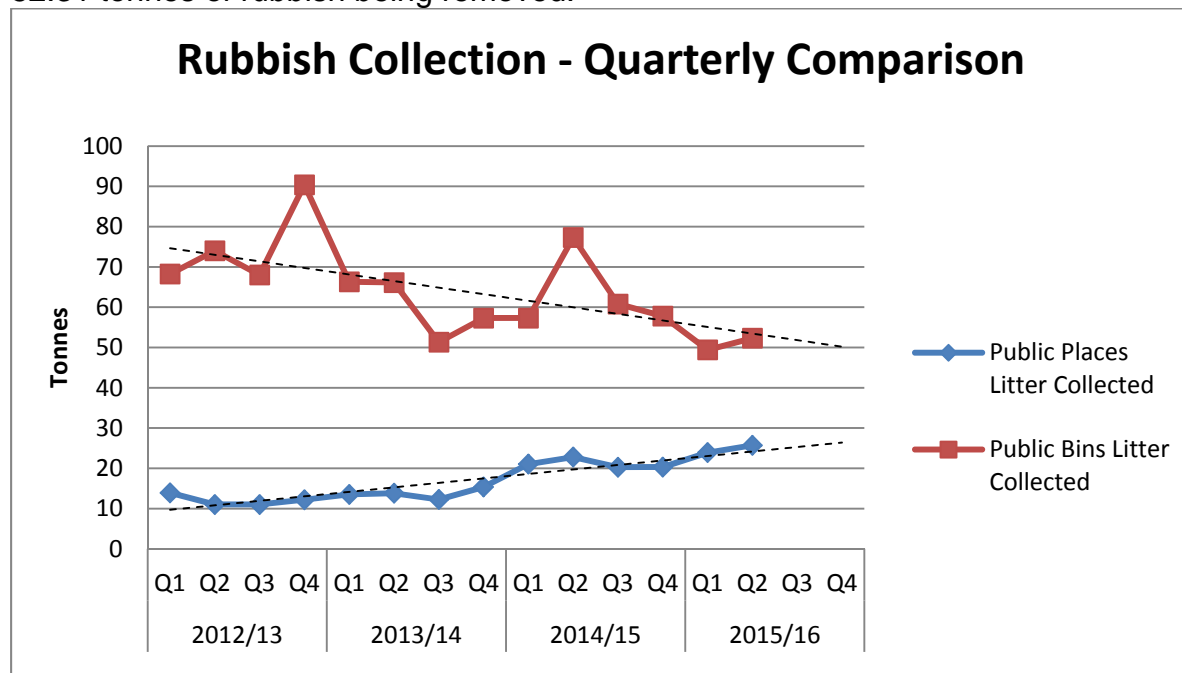
There was an increase in pothole repairs and decrease in road and directional signage repairs this quarter. The road and directional signage works are continuing to see a decreasing trend.



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Rubbish Collection

Foot patrols through the CBD and foreshore reserves collected approximately 25.7 tonnes of litter. 2264 public litter bin collections occurred in the quarter resulting in 52.31 tonnes of rubbish being removed.



Current trend lines indicate litter collected from public places is increasing while litter from public bins is decreasing, although there was a slight increase this quarter. Staff have not identified any clear drivers for this trend.

Major Works Undertaken for the Quarter

- High-pressure cleaning to The Mall, CBD and Parap Shopping Village and suburban shopping centres completed in November 2015
- Approximately 2500m² of asphalt overlay as part of the Road Reseal Program
- Repair and reinstatement of Jingili Water Gardens collapsed storm water pipes
- Approx \$100,000 of CoD line marking undertaken -
- Reseal of 1 walkway in Karama
- Reconstruction of Sanders St and Britomart Tce road pavements.
- Audit of storm water drainage as part of asset management completed

Major Works Programmed Within the Next Quarter

- Line marking program continuation.
- Continue reseal program.
- Road collapse reconstruction Jingili Terrace and Dripstone Road.
- Footpath construction/reconstruction program.
- Austin Lane footpath reconstruction.

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 DECEMBER 2015

PARKS AND RESERVES

The Parks and Reserves section actively maintains approximately 574 hectares of open space. The section actioned 535 Customer Action Requests in addition to proactive maintenance tasks. These requests covered irrigation repairs, vandalism repairs, grass cutting and verge maintenance, tree pruning/removals, stump grinding, fence repairs, litter collection and playground maintenance.

The Parks and Reserves section is divided into precinct areas as follows:

- The CBD Precinct maintains 132 hectares in 202 separate areas of public open space including, ovals, road reserve, roundabouts, shopping centre garden beds and street gardens throughout the suburbs of Darwin CBD, Larrakeyah, Bayview, Stuart Park, The Gardens, Parap, Woolner, Winnellie and Berrimah.
- The Central Precinct team maintains 117 hectares in 152 separate areas throughout Nightcliff, Fannie Bay, Coconut Grove, Rapid Creek, Alawa and Nakara.
- The Northern Precinct team maintains 222 hectares in 85 separate areas throughout Anula, Wulagi, Leanyer, Malak, Karama Jingili, Moil, Wagaman, Wanguri and Tiwi.
- The Urban Bushland team is responsible for weed control/herbicide application, litter control, planting programs, re-vegetation and walk trail maintenance to approximately 103 hectares of natural and remnant bush.
- The turf and irrigation team maintains all irrigation systems at approximately 400 sites and 17 active sports reserves within the Municipality.

Major Works Undertaken for the Quarter

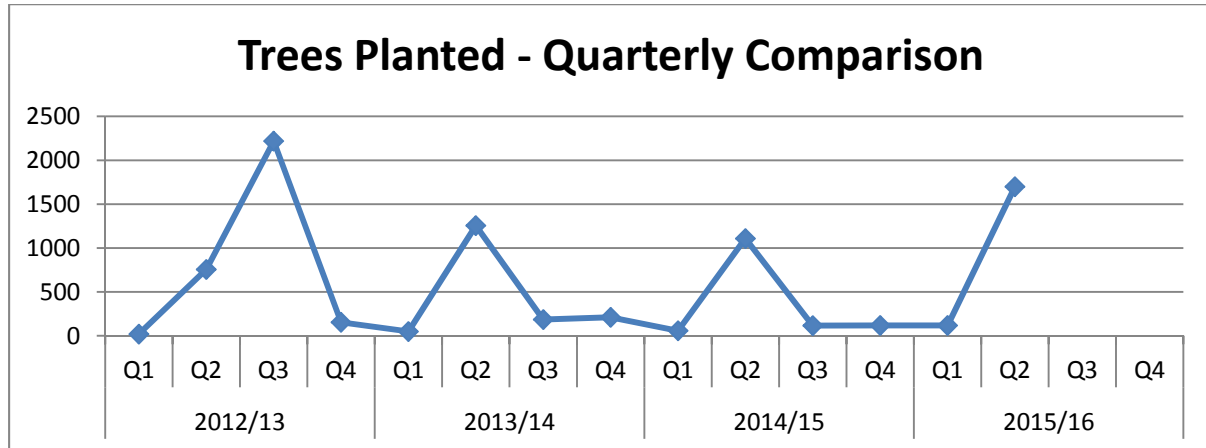
- Annual detail irrigation auditing of major sites commenced.
- System controlled irrigation sites expansion as part of the Water Efficiency programme is continuing
- Sunset Park irrigation install complete

Major Works programmed for the next quarter

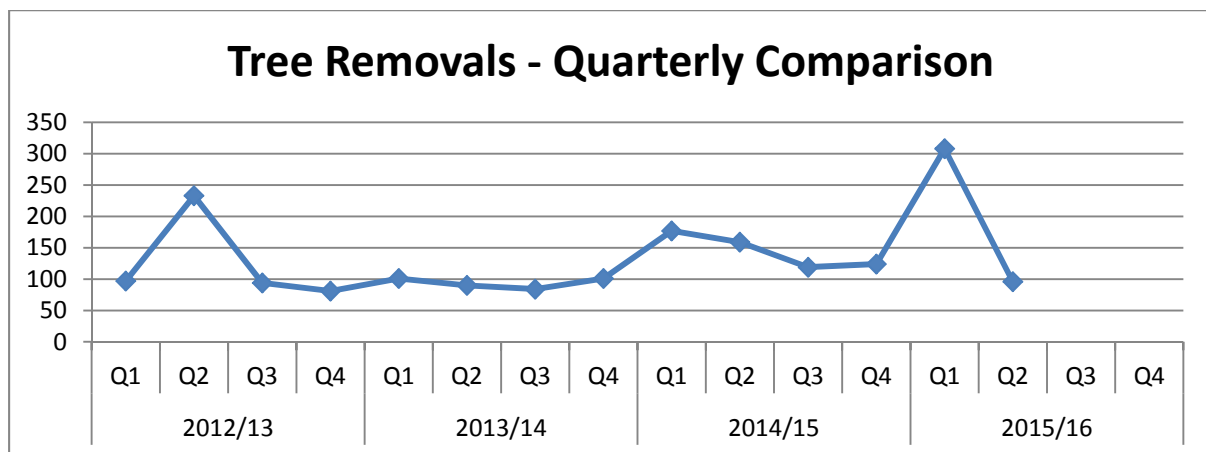
- Design and quote for automatic installations into Peace Park, Anula Greenbelt & McMillans Road Greenbelt (Jade Park) completion.
- Stage 1 Muirhead under maintenance.
- Nakara Shops landscape upgrade.
- Resident request street tree planting continuing.

Tree removal and planting statistics

1700 trees planted this quarter which includes a community planting day at East Point during December. The graph shows a common fluctuation of high values in second quarter of each financial year which represents the appropriate seasonal conditions for tree planting.



There were 96 trees removed this quarter which was a large decrease from the previous quarter of 308. However the average number of trees removed each quarter is 133 and therefore the number of trees removed was only slightly below average.



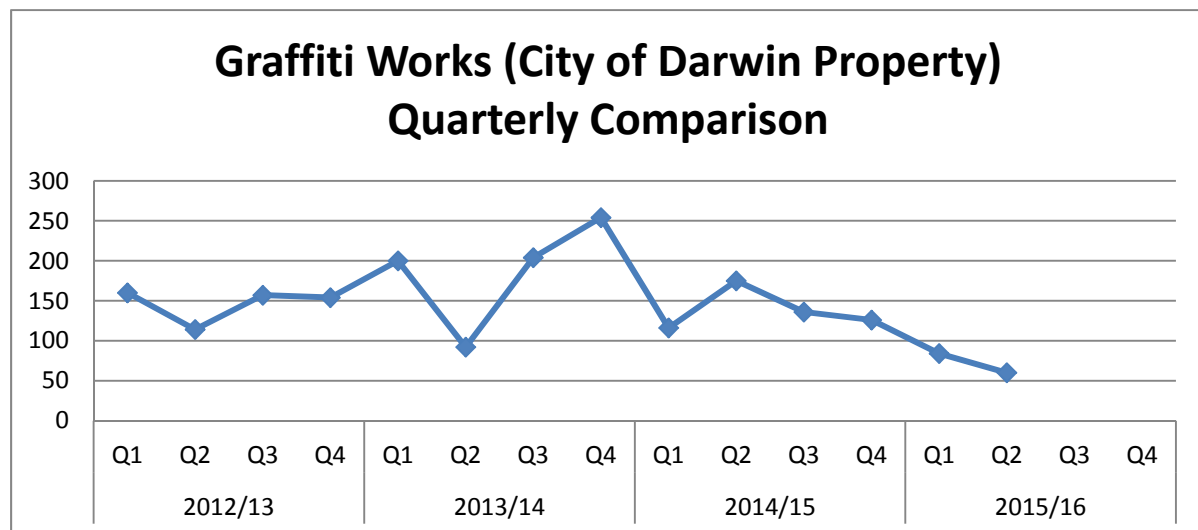
Current trend identifies tree removals and planting approximately similar to previous years with planting numbers easily eclipsing the ideal standard of two planted for each one removed.

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 DECEMBER 2015

BUILDING SERVICES

Building services responded to 430 Customer Action Requests over the quarter in addition to proactive maintenance tasks.

Council's Graffiti Team responded to 60 Customer Action Requests relating to City of Darwin and zero Northern Territory Government controlled assets, over the quarter. As seen in the graph it was the lowest recorded value represented.



The Northern Territory Government are using other providers for Graffiti removal..

Some Highlights for the Quarter Include

- West Lane Car Park domestic and fire water supply upgrade.
- Operations Centre new photovoltaic system to workshop roof.
- Darwin Entertainment Centre dress circle carpet replacement.
- Darwin Entertainment Centre water ingress rectification.
- Darwin Entertainment Centre temporary Air Conditioning system installed and commissioned
- Civic Centre Library hub renovation.
- Casuarina Library disabled toilet refurbishment.

Major Works Programmed Within the Next Quarter

- West Lane Car Park air conditioning chilled water pipe replacement.
- Nightcliff Hall air conditioning completion.
- Calling of public tenders for air conditioning services and electrical services.

Public Toilet Usage

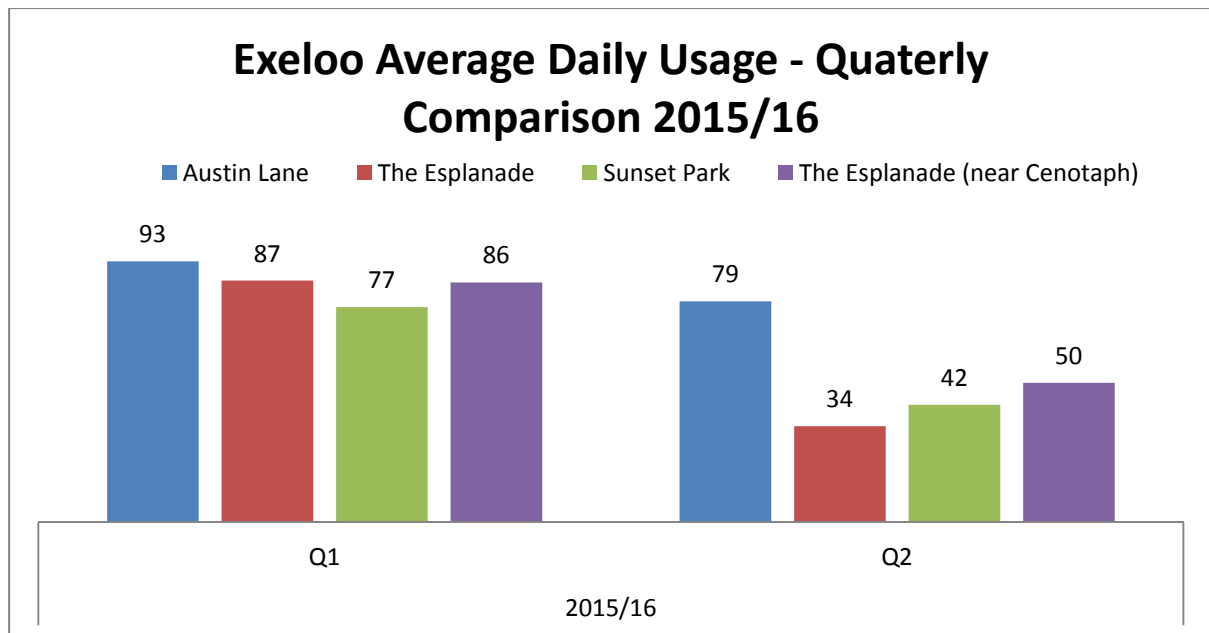
Council operates six public exeloo toilets and four of these are automated to collect statistics on daily usage rates.

The facilities are accessible 24 hours a day, 7 days a week.

Average daily usage rates for the quarter were;

- Austin Lane Exeloo – 79.05 per day. Total days out of service for the quarter = 3
- Esplanade Exeloo – 34.39 per day. Total days out of service for the quarter = 1
- Sunset Park Exeloo – 42.08 per day. Total days out of service for the quarter = 0
- Esplanade Exeloo (near Cenotaph) – 49.92 per day. Total days out of service for the quarter = 7

The highest used exeloo this quarter was Austin Lane and the lowest used exeloo was The Esplanade. All exeloo’s had a decrease in the average daily usage from the previous quarter.



CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

- Team Coordinator Parks & Reserves
- Coordinator Civil Infrastructure
- Team Coordinator Building Services
- Team Leader Cleaning Services

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SUBJECT: INFRASTRUCTURE MAINTENANCE QUARTERLY REPORT -
DECEMBER 2015

POLICY IMPLICATIONS

All works undertaken by the section are in accordance with Council policies.

BUDGET AND RESOURCE IMPLICATIONS

Infrastructure Maintenance operates within the current operational and capital works budgets.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Works undertaken through Infrastructure Maintenance are in accordance with legislative requirements and to mitigate Councils risk wherever possible.

ENVIRONMENTAL IMPLICATIONS

Environmental consideration forms part of the quadruple bottom line reporting which guides service levels, procedures and work activities.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

KERRY SMITH
MANAGER INFRASTRUCTURE
MAINTENANCE

LUCCIO CERCARELLI
GENERAL MANAGER
INFRASTRUCTURE

For enquiries, please contact Kerry Smith on 8980 3654 or email:
k.smith@darwin.nt.gov.au.

**ENCL: ENVIRONMENT & INFRASTRUCTURE
NO COMMITTEE/OPEN**

AGENDA ITEM: 10.8

WASTE AND RECYCLING QUARTERLY REPORT - OCTOBER TO DECEMBER 2015

REPORT No.: 16TS0029 NN:tz

COMMON No.: 1738353

DATE: 16/02/2016

Presenter: Manager - Technical Services, Nadine Nilon

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide an update on Council's waste management and recycling activities for the October to December 2015 quarter.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

3 Environmentally Sustainable City

Outcome

3.1 Council's carbon footprint reduced

Key Strategies

3.1.3 Reduce Council's waste production

KEY ISSUES

- Council's waste management services including Shoal Bay Waste Management Facility (SBWMF) and waste collection continued throughout the quarter.
- There was an increase in transfer station waste volume this quarter which corresponded to an increased number of visits, likely due to the wet season commencing and the Christmas period.
- Commercial visits to shoal bay and associated waste both had a decrease, likely due to building and commercial work slowing in the lead up to Christmas and the wet season starting.

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

THAT Report Number 16TS0029 NN:tz entitled Waste And Recycling Quarterly Report - October To December 2015, be received and noted.

BACKGROUND

Quarterly reports on waste management and recycling activities are provided to inform Council of recycling and waste collection volumes and trends.

DISCUSSION

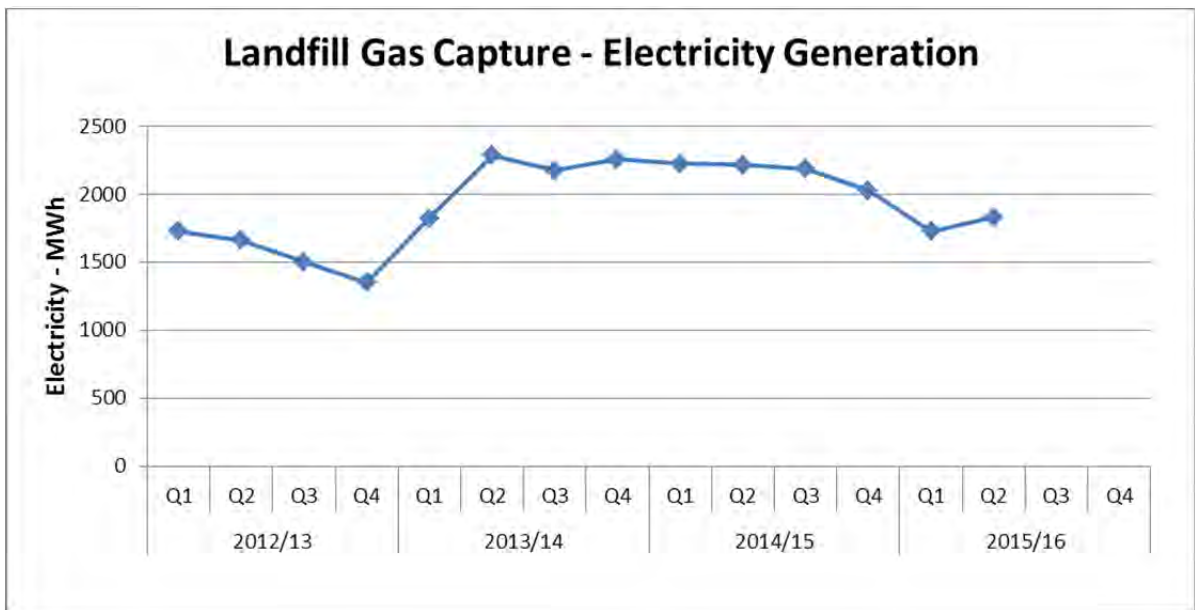
Shoal Bay Waste Management Facility

The Shoal Bay Waste Management Facility provides a transfer station and green waste disposal for domestic users, landfill for commercial users, recycling collection with sales facility and a landfill gas processing plant.

Gas Extraction Operations

On average, sufficient power is generated from the gas extraction process to power more than 1,100 Darwin homes per annum. The continuous benefits of converting landfill gas to energy include the reduction of harmful gas emissions to the atmosphere, green power production, and improvement of air quality surrounding the landfill.

The graph below indicates the electricity generated from the landfill gas collection on site. The increase in the generation in 2013/14 shown on the graph correlates with the last upgrade of the landfill gas collection system. Over time, gas capture decreases as the waste decomposes. There are works scheduled for the first few months of 2016 to install new wells and increase the volume of gas captured.



Mulching Operations

The quantity of residential green waste mulched this quarter was 5,988 cubic metres. This was an decrease of 2,967 cubic metres from the previous quarter and lower than the average amount of green waste processed each quarter over the last 4 years of 6,323 cubic metres. The volume varies significantly between quarters as it's dependent on the time that the mulching actually occurs. The contractor plans to improve this timing process to better reflect the disposal patterns for mulched green waste.

The dashed trend line on the graph below demonstrates a gradual linear increase over time which is consistent with there being an increase in new dwellings over this time.



Recycling Operations

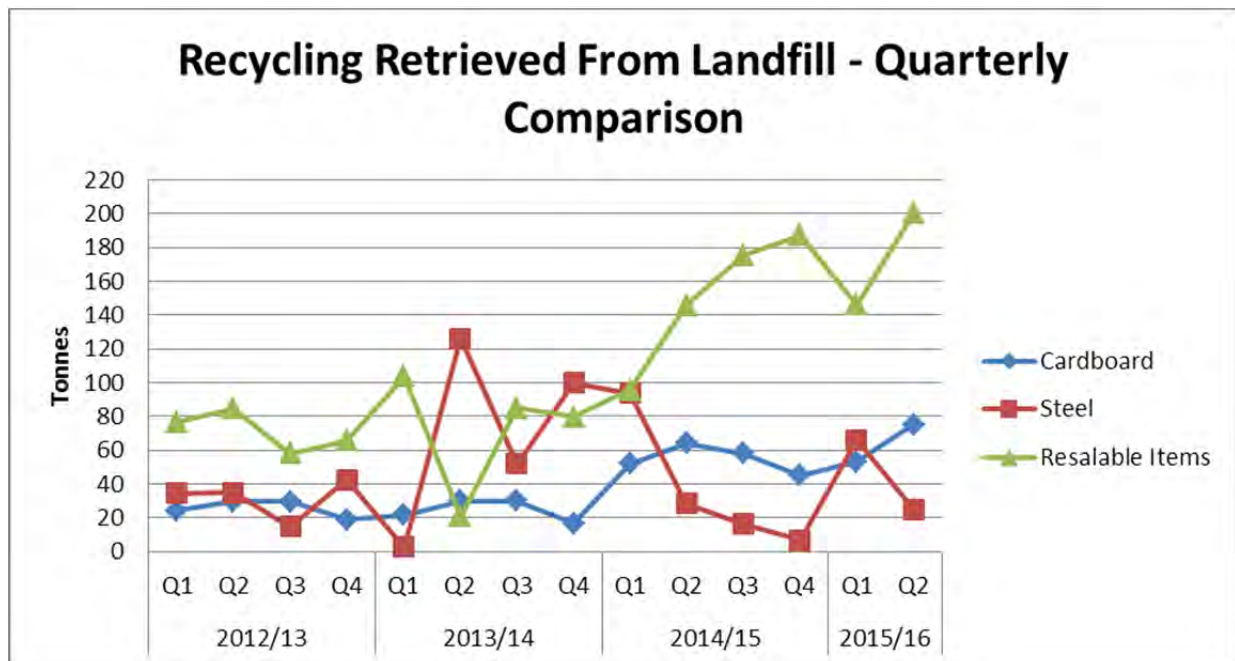
Material for resale and recycling is collected at the recycle facility, either from materials being dropped off at the facility, or through the contractor collecting the material from the transfer station or inert waste landfill cell.

The volume of recyclables received at the recycling facility are listed for the quarter and graphed below.

- E-waste - 25 items collected for recycling with 18 being sold in the shop and the remaining 7 items being stored for recycling
- Recovered packaging recyclables – 21.2 tonnes of cardboard, 1.2 tonnes of glass and 0.1 tonnes of plastic
- Degassing - 128 white goods degassed and recycled with 1.75kg of gas recovered
- Compact fluorescent lamps (CFLs) – 22 were received and disposed

The below graphs represent the quantities retrieved from landfill and the transfer station each quarter since 2012/13.

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Resalable items had an increase this quarter which was an improvement back in line with the trend of increases seen in the 2014/15 financial year.

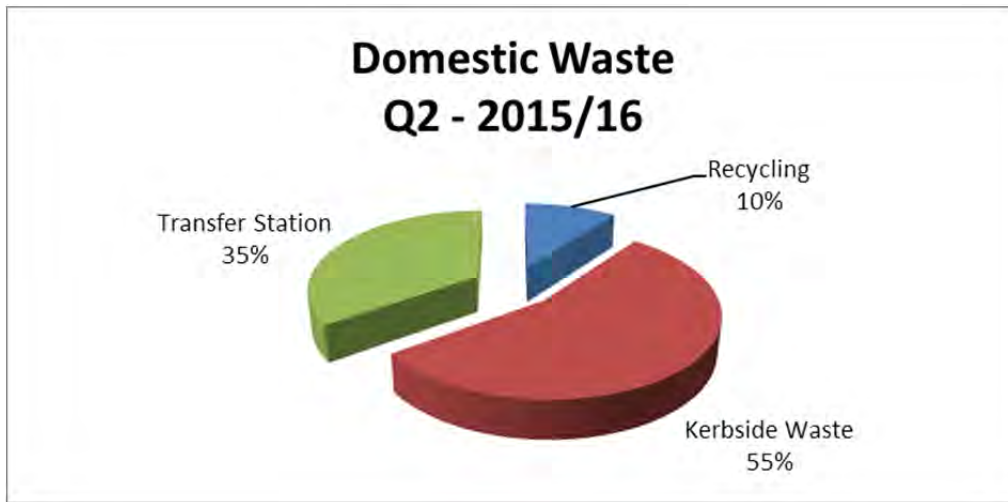
The total cardboard retrieved had an increase from the previous quarter, reaching a maximum value seen in a quarter over the last 3 financial years, this may be related to more commercial users starting to use the facility for recycling. Steel continued to show variation, with a decrease this quarter.

Domestic Waste

City of Darwin offers a residential waste and recycling collection service through its contractor, Transpacific Cleanaway. City of Darwin residents are also provided with free disposal of domestic quantities of household waste at the transfer station via Shoal Bay Access Tags.

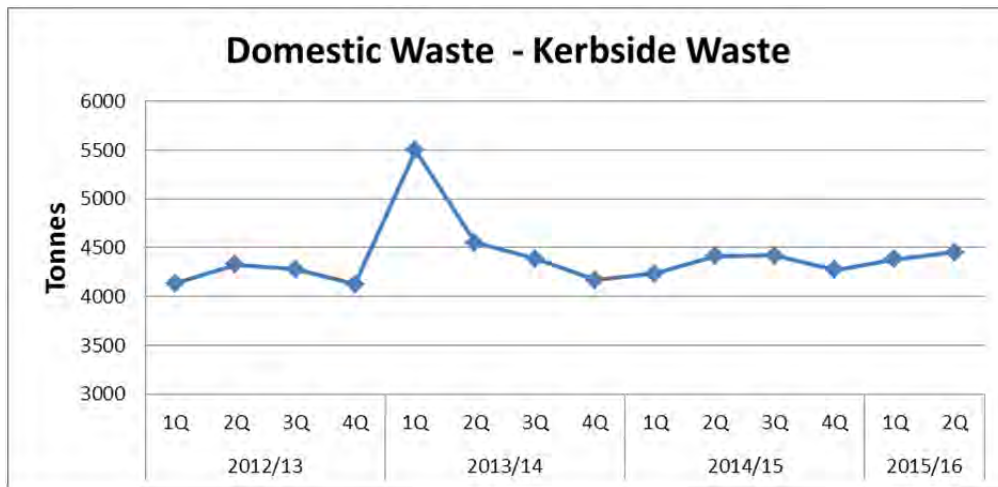
The chart on the following page represents the breakdown of the disposal of domestic waste for the second quarter of the 2015/16 financial year. This quarter was similar to previous quarters however the ratios showed kerbside waste had a 4% decrease and the transfer station had a 5% increase in tonnages.

Education programs have continued to encourage appropriate recycling of materials, to reduce the amount of waste sent to landfill.



Domestic Waste - Kerbside Waste

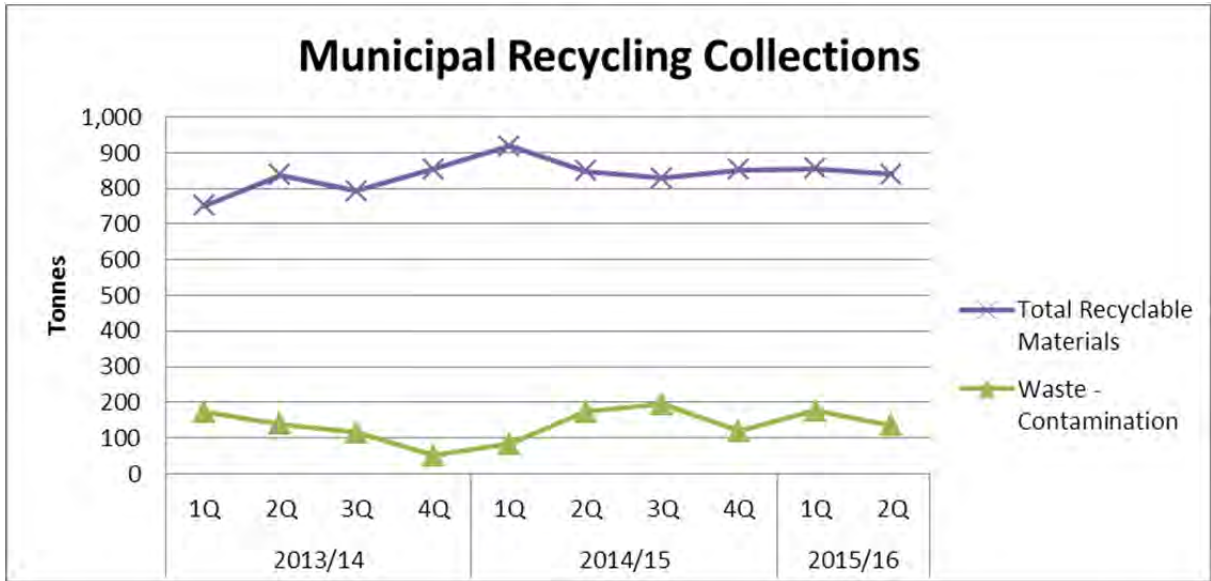
The waste from kerbside and units collection this quarter was 4,450 tonnes, an increase from the previous quarter but similar to the consistent with the average of 4,299 tonnes.



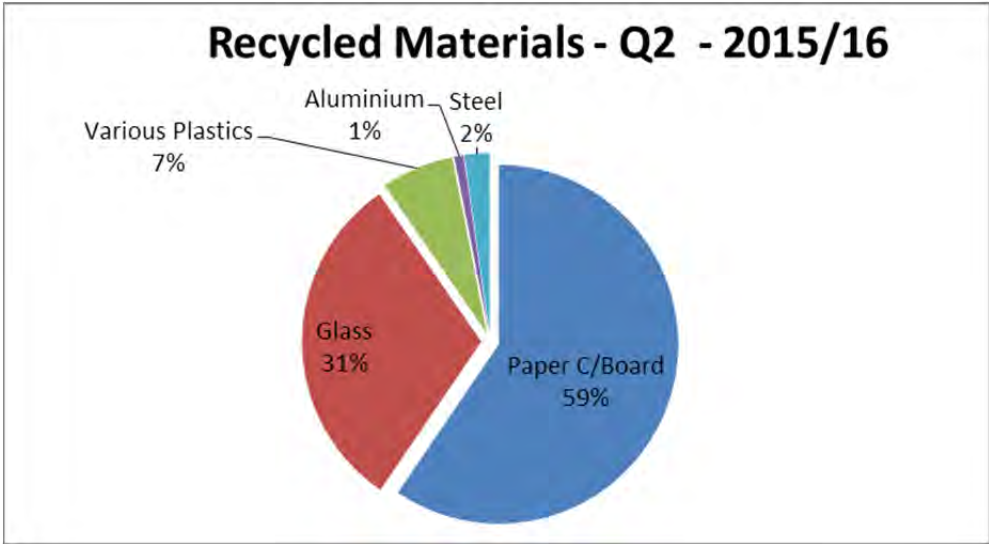
Domestic Waste - Recycling

Recycling had a slight decrease from 856 tonnes the previous quarter to 840 tonnes this quarter. As shown in the graph on the next page, the total tonnes of recyclables collected from the kerbside service, with the corresponding breakdown between waste contamination that is returned to the landfill and materials that are recycled.

The education programs in place aim to both increase recycling rates and reduce the contamination present. During this quarter contamination letters were sent to 5 unit complexes, notifying residents of repeated recycle bin contaminations.



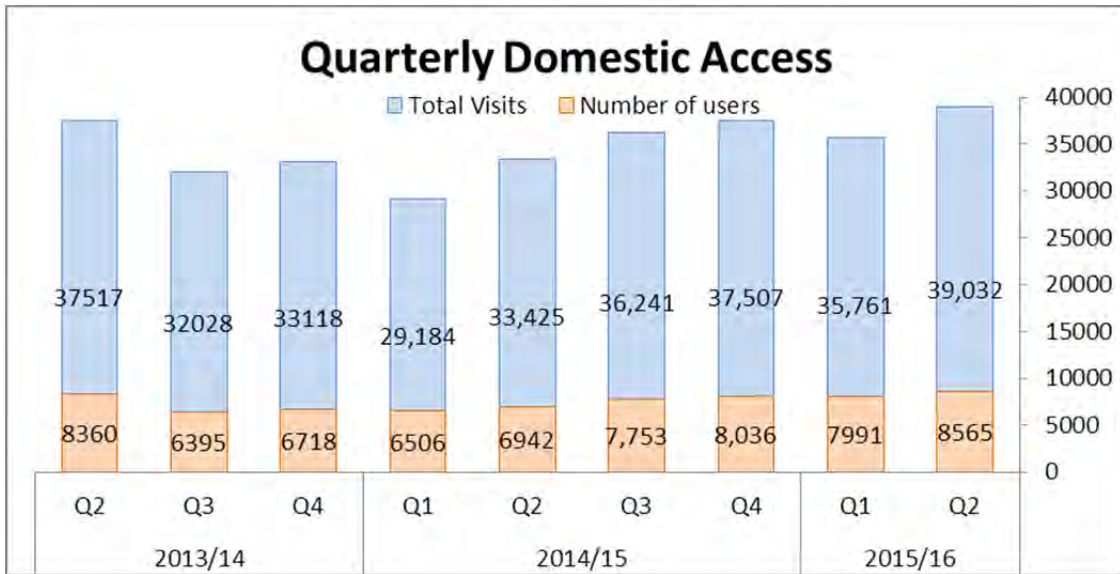
All materials collected from kerbside recycling are taken to the Transpacific Cleanaway Materials Recovery Facility (MRF) where they are sorted, baled and sent to market for reprocessing. The distribution of collected recyclable materials for the second quarter of the 2015/16 financial year can be seen in the chart below.



Domestic Waste - Access to Shoal Bay

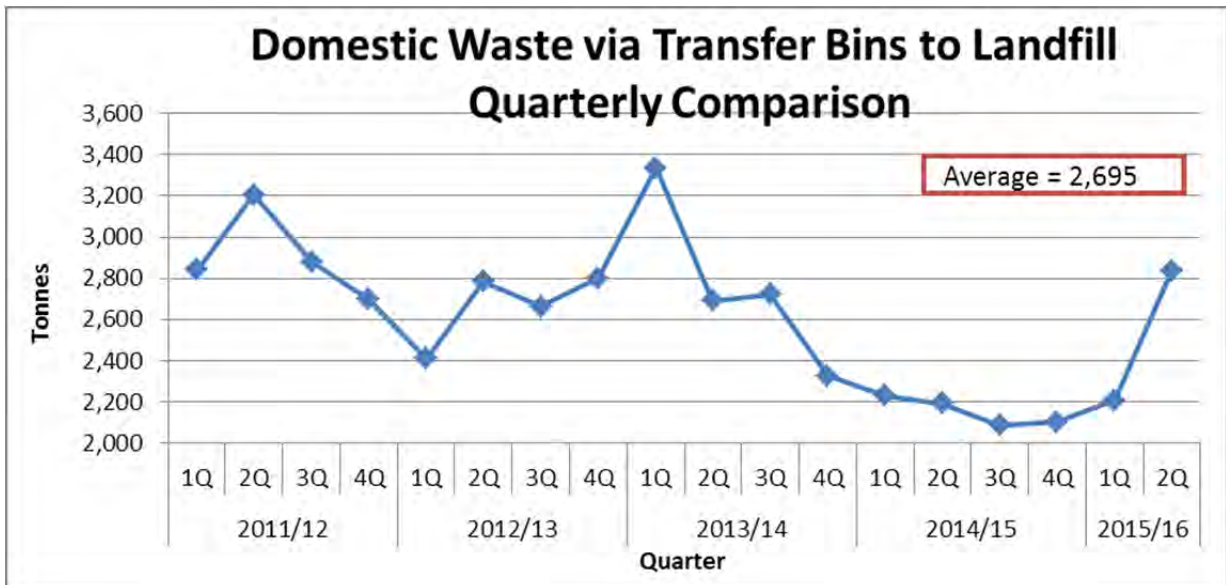
There were a total of 39,032 visits to the Shoal Bay site in this quarter which includes access to the transfer station and to the green waste disposal area.

There has been an increase in the number of visitors from the previous quarter which is likely due to the wet season and is consistent with previous years over this period. There were 8,565 individual property users of the transfer station and green waste disposal areas for the 39,032 visits, representing an average of 4.6 visits per user over the quarter, or 1.5 visits a month.



Domestic Waste – Transfer Station

There were 2,833 tonnes of domestic waste deposited in the transfer station bins this quarter, an increase of 626 tonnes from the previous quarter. This quarter’s volume was higher than the quarterly average. This is consistent with the increase in visits over the period.

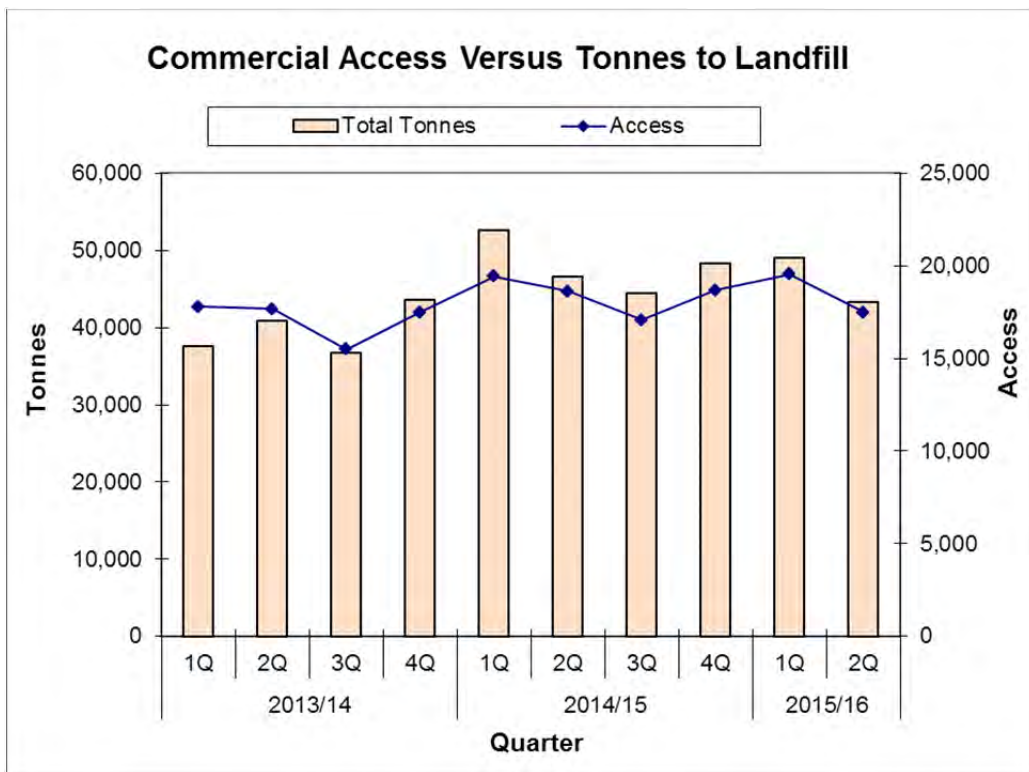


Sixteen letters were sent out regarding suspected misuse of domestic access tags (ie commercial, scavenging, illegal disposal of liquid waste), two access tags were deactivated due to repeated misuse. One of the users of the deactivated tags contacted Council and the permitted use of the domestic tags was explained to the resident. The resident is now using the commercial lane to dispose of their commercially generated waste.

Commercial Access to Shoal Bay

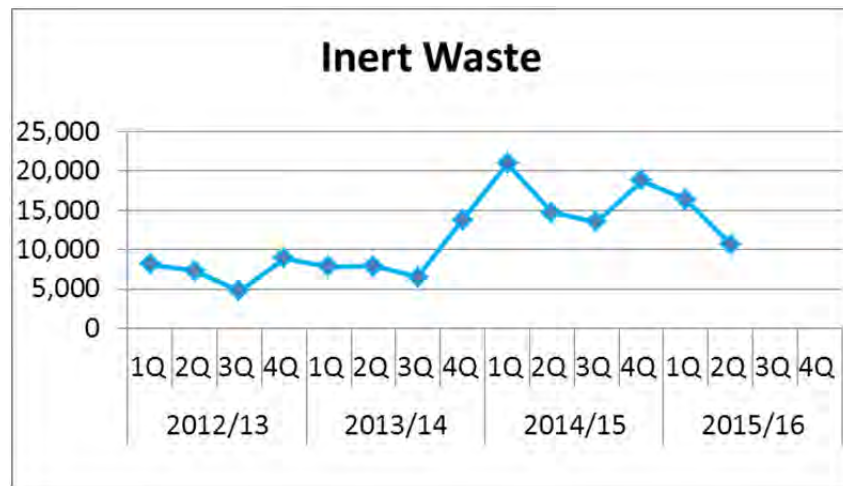
Commercial access includes all commercial users and waste accepted from Palmerston, Litchfield and Dundee transfer stations. The average commercial load disposed of at Shoal Bay this quarter was 2.47 tonnes with a total of 43,218 tonnes brought in over 17,496 loads. This represents a decrease of 5,805 tonnes from the previous quarter and 2,050 less visits. This reduction is similar with other year's second quarter access and tonnages when there is a reduction for the start of the wet season and the Christmas period.

For this quarter the number of accesses represents an average of 195 visits per day of commercial waste for disposal and an average of about one truck every 3 minutes. The number of loads coming in has remained steady over the past two years as the total tonnes has been increasing, this change is likely due to an increase in inert waste, which is heavier per volume.

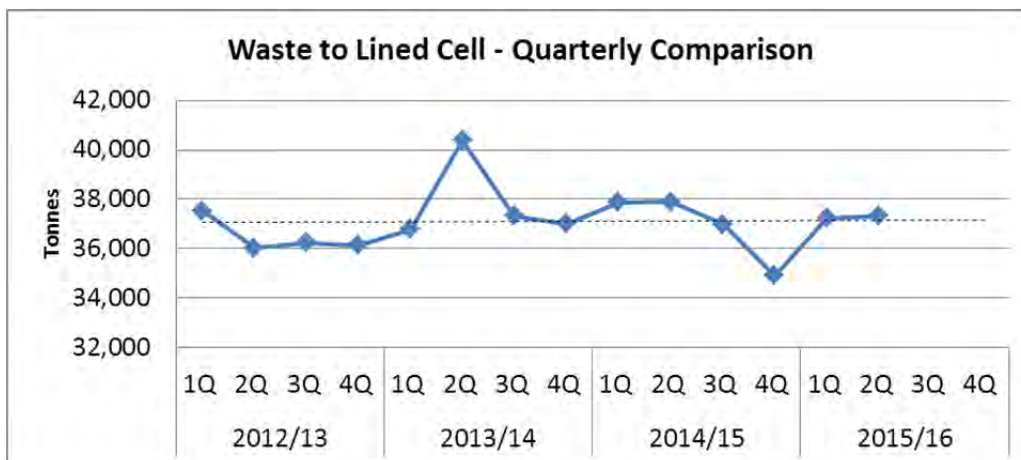


Waste to Landfill by Waste Type

The majority of waste brought in to Shoal Bay is disposed of within the lined landfill cell, including all domestic waste and commercial green waste. Inert material is disposed of in an unlined cell and includes items such as concrete, plastics and tyres. As indicated below, there has been another decrease from the previous quarter. The increase in 2014/15 was linked to the type of work occurring at the Ichthys LNG Project at that time.



The quantity of waste to lined cell this quarter has had a marginal increase of 94 tonnes. The trend line represents a consistent quantity of waste to lined cell over the last few financial years. The quantity of waste to the lined cell is closely monitored to ensure that adequate planning for future cells can occur. This financial year has a budgeted project for the design and commencement of construction for a new lined cell at Shoal Bay.

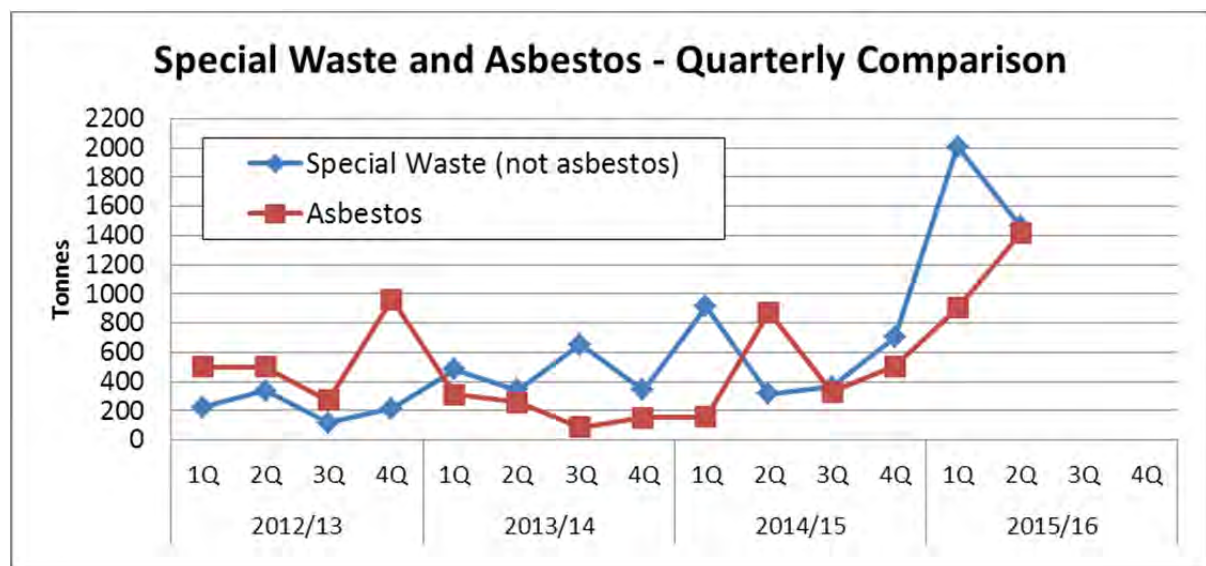


Special Waste and Asbestos

The quantity of asbestos increased this quarter by 510 tonnes. It's the largest total quantity recorded between the 2012/13 financial year and the current quarter. This is due to a significant volume of material coming in from a couple of individual projects.

There was a decrease in special waste with a 541 tonne drop in disposal from the previous quarter bringing the total to 1,463 tonnes. This quantity remains high and can be explained from the increased waste coming from the abattoir.

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Community Education

Community education has continued through planned events undertaken by Council.

The activities conducted this quarter included;

- Garage Sale Trail
 - 24 October, Recycle Shop, coordinated by NTRS with Council staff, activities included sausage sizzle, sales table, raffles and jelly bean count. Approximately \$800.00 was raised for the Cancer Council
- Shoal Bay Tours
 - November 16, Ludmilla Primary School
- National Recycling Week
 - 9 – 15 November, Development of new recycling promotional material and placement in the NT News
- Citizenship Ceremonies
 - Introduction of Waste and Recycling Information packs, 120 packs issued

Upcoming Plans

- Cleanaway education program is continuing to broaden the target audience to include more community groups, senior groups and not for profit organisations.
- Development of new advertising and educational material.
- Improvements at the education centre, including shading around the building and improvements to facilitate interaction for all users at the facility.
- Design for the new landfill cell is underway, for construction in the dry season of 2016.
- The EOI process for a leachate treatment system on site is continuing.

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CONSULTATION PROCESS

In preparing this report, information was obtained from Council's waste contractors:

- Northern Territory Recycling Services (NTRS)
- Landfill Management Services (LMS)
- Territoria Civil (Shoal Bay Contractors)
- Transpacific Cleanaway

POLICY IMPLICATIONS

Operations and activities are undertaken in accordance with Council policies.

The development of a Waste Management Strategy for City of Darwin is underway, which will also result in a new Waste Management Policy. These documents will include options and plans for Council to increase waste diversion and recycling within the Municipality.

BUDGET AND RESOURCE IMPLICATIONS

All activities are carried out within budgets.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Not assessed

ENVIRONMENTAL IMPLICATIONS

Operations are conducted to minimise impacts on the environment through recycling initiatives, salvaging works and gas extraction from the landfill.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

NADINE NILON
MANAGER - TECHNICAL
SERVICES

LUCCIO CERCARELLI
GENERAL MANAGER
INFRASTRUCTURE

For enquiries, please contact Natalie Dreibergs on 89300578 or email:
 n.dreibergs@darwin.nt.gov.au.

OPEN SECTION

E&I/6

Environment & Infrastructure Committee Meeting – Tuesday, 16 February 2016

11. INFORMATION ITEMS

Nil

12. GENERAL BUSINESS

13. CLOSURE OF MEETING