

DOCUMENT 35

Exempt

Section 35:

Executive Document

Section 36:

Internal working document

Brice, Michael

From: Brice, Michael
Sent: Wednesday, 25 June 2014 9:45 AM
To: Virtue, Geoff
Subject: RE: Tree on Northbourne

Median

Michael Brice | Manager Urban Treescapes |
Phone | Fax 02 6207 5956 | Email michael.brice@act.gov.au
City Services, Parks and City Services | Territory and Municipal Services Directorate | ACT Government
Level 8, Macarthur House, 12 Wattle Street, Lyneham ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Virtue, Geoff
Sent: Wednesday, 25 June 2014 9:43 AM
To: Brice, Michael
Subject: RE: Tree on Northbourne

anks Michael – is it on the median or on the verge? Good thinking re video

From: Brice, Michael
Sent: Wednesday, 25 June 2014 9:42 AM
To: Virtue, Geoff
Subject: RE: Tree on Northbourne

Geoff

A tree near the cnr of Condamine Street dropped half a V fork.

We'll be removing the remainder of the tree today at 1.00 pm.

I've arranged for the company contracted by Capital Metro to video the works.

Thank you

Michael

Michael Brice | Manager Urban Treescapes |
Phone | Fax 02 6207 5956 | Email michael.brice@act.gov.au
City Services, Parks and City Services | Territory and Municipal Services Directorate | ACT Government
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From: Virtue, Geoff
Sent: Wednesday, 25 June 2014 9:17 AM
To: Brice, Michael
Subject: Tree on Northbourne

Hi Michael

Did a tree fall down on Northbourne Avenue yesterday? I hear one did near Dickson.

Geoff Virtue | Manager, Communications |
Phone | Fax 02 6207 6148 | Mobile
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www.tams.act.gov.au | [Twitter](#) | [Flickr](#) | [YouTube](#)

Brice, Michael

From: Natalie Broughton [Natalie.Broughton@natcap.gov.au]
Sent: Monday, 30 June 2014 12:00 PM
To: Brice, Michael
Cc: Bronwen Hamilton
Subject: Northbourne Avenue Capital Metro [SEC=UNOFFICIAL]

Security: Unofficial

Hi Michael,

A landscape structure concept plan will need to be developed as part of the urban design / public realm guidelines for the Northbourne Avenue corridor to help determine the appropriate tree species.


Natalie

Natalie Broughton | Director Development Assessment and Heritage
National Capital Authority



| 6273 4427

National Capital Authority | Treasury Building, King Edward Terrace, PARKES ACT 2600

GPO Box 373, CANBERRA ACT 2601 |  www.nationalcapital.gov.au | Twitter: @NCA_Media



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Brice, Michael

From: Duncan MacLennan [Duncan.Maclennan@natcap.gov.au]
Sent: Monday, 30 June 2014 9:14 AM
To: Brice, Michael
Cc: Ruth Morschel; Natalie Broughton; Bronwen Hamilton
Subject: RE: Northbourne Ave/Capital Metro [SEC=UNCLASSIFIED]

Security: UNCLASSIFIED


Hi Michael

Good to hear from you and thank you for seeking the NCA's input to this important matter. I have passed your inquiry to Bronwen Hamilton who is the best contact from our Planning area.

Regards
 Duncan

Duncan MacLennan | Urban Tree Manager
 National Capital Authority

 |  |  6273 4427
 National Capital Authority | Treasury Building, King-Edward Terrace, PARKES ACT 2600
 GPO Box 373, CANBERRA ACT 2601 |  www.nationalcapital.gov.au | Twitter: @NCA_Media

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From: Brice, Michael [mailto:Michael.Brice@act.gov.au]
Sent: Friday, 27 June 2014 5:01 PM
To: Duncan MacLennan
Subject: Northbourne Ave/Capital Metro

Duncan

I hope you are well and that you have settled in well at the NCA.

Yesterday I was talking to Sam Ning about the tree advisory group and she mentioned that NCA may have a preference for the type of trees that are used as replacements in the median strip of Northbourne Ave if the capital metro project goes ahead.

I have a Capital Metro meeting on Monday at 2.30 pm and I thought that the meeting may provide an opportunity to pass on the NCA's preliminary opinion on the planting theme.

If you or your peers have something in mind (whether it be a single native theme with identified preferred species, mix of native and exotic or some other theme) it would be appreciated if you could advise me before Monday's meeting so I can put this preference into the mix.

I have also been asked with preparing a brief for our Minister and I will use this information in the brief as well.

An email response or phone call would be fine.

Thank you

Michael

Michael Brice | Manager Urban Treescaples |
 Phone | Fax 02 6207 5956 | Email michael.brice@act.gov.au

Brice, Michael

From: Kugathas, Kuga
Sent: Wednesday, 6 August 2014 9:44 AM
To: Brice, Michael
Cc: Allday, Stephen
Subject: FW: Northbourne Avenue/Capital Metro Tree Numbers
Attachments: Pages from 140519_Scoping Design_Tree Impact Assessment Binder.pdf

Hi Michel

As per your email, I sought clarification with our consultants. I believe the following email clarifies the distribution of tree numbers along the various sections.

Regards


Kuga

ga N Kugathas | Director, Planning and Design

ACT Government | CapitalMetro

GPO Box 158, Canberra ACT 2601

www.capitalmetro.act.gov.au

 Please consider the environment before printing this e-mail.

From: [redacted]@arup.com]
Sent: Tuesday, 5 August 2014 2:43 PM
To: Kugathas, Kuga
Cc: Allday, Stephen; [redacted]@hassellstudio.com); /
Subject: RE: Northbourne Avenue/Capital Metro Tree Numbers

Hi Kuga,

There appears to be some confusion in respect to the location of the 56 (note that the most recent count is actually 51 trees as per the attached) trees. The trees are in the median between Antill Street and the Flemington Road / Federal Hwy intersection.

Speaking with [redacted], he recalls that references in meetings have been to tree counts "north of Antill Street". This was meaning north of Antill Street along the Northbourne / Federal Corridor. It did not include the area along Flemington Road. The tree impact in the median on Flemington Road and at the stop on Hibberson Street is a total of 21 at this stage.

Thus the actual count of trees within the median north of Antill Street and including Flemington Road is 51 + 21 = 72.

Regards,

[redacted]

Associate Principal

Arup

Level 10, 201 Kent Street Sydney NSW 2000 Australia
PO Box 76 Millers Point Sydney NSW 2000 Australia

www.arup.com

From: Kugathas, Kuga [<mailto:Kuga.Kugathas@act.gov.au>]
Sent: Monday, 4 August 2014 5:10 PM
To: [redacted]
Cc: Allday, Stephen; A...
Subject: RE: Northbourne Avenue/Capital Metro Tree Numbers

Hi.

Can I please get an update on the status of the following clarification?

Thanks

Regards

Kuga

From: Kugathas, Kuga
Sent: Thursday, 31 July 2014 3:11 PM
To: [redacted]
Cc: Allday, Stephen
Subject: FW: Northbourne Avenue/Capital Metro Tree Numbers

n

Can the issue below be clarified?

Thanks

Regards

Kuga

From: Brice, Michael
Sent: Thursday, 31 July 2014 2:15 PM
To: Kugathas, Kuga
Subject: FW: Northbourne Avenue/Capital Metro Tree Numbers

Kuga

Please see the following email. Perhaps the consultants can clarify this information?

Thank you

Michael

Michael Brice | Manager Urban Treescapes and Land Use |
Phone [redacted] | Fax 02 6207 5956 | Email michael.brice@act.gov.au
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From: Brice, Michael
Sent: Thursday, 31 July 2014 2:12 PM

To: Flanery, Fleur
Subject: Northbourne Avenue/Capital Metro Tree Numbers

Fleur

The numbers I provided for Northbourne Ave from the City to Antill St south (430) are correct. However the other figures are incorrect.

At the last CM meeting I attended the consultant stated that 56 trees between Antill Street South Dickson and Hinder Street Gungahlin will be affected by the light rail project. I provided this information to you however I incorrectly stated that 56 Trees on Flemington road will be affected. I should have stated that this figure applies from Antill St south to Hinder street.

I now believe that the figure of 56 provided by the consultant is incorrect. This morning I came to work via Flemington Road and as I drove along I counted 12 semi-mature to mature Eucalyptus trees in the median of Flemington Road that will be affected by the Metro. According to Google there are a further 56 trees in the median strip of Northbourne Ave between Barton Highway and Flemington Road. Additionally, because the corner of Flemington Road and Northbourne Ave is being widened I have no doubt that a number of the Oaks on that corner will also be lost.

Therefore the number of trees to be affected between Barton Highway and Hinder Street is closer to 78 (56 +12 +10). This also indicates to me that the figure of 56 provided by capital Metro last week is incorrect. I will try to clarify this with CM.

Sorry for the stuff up.

Thank you

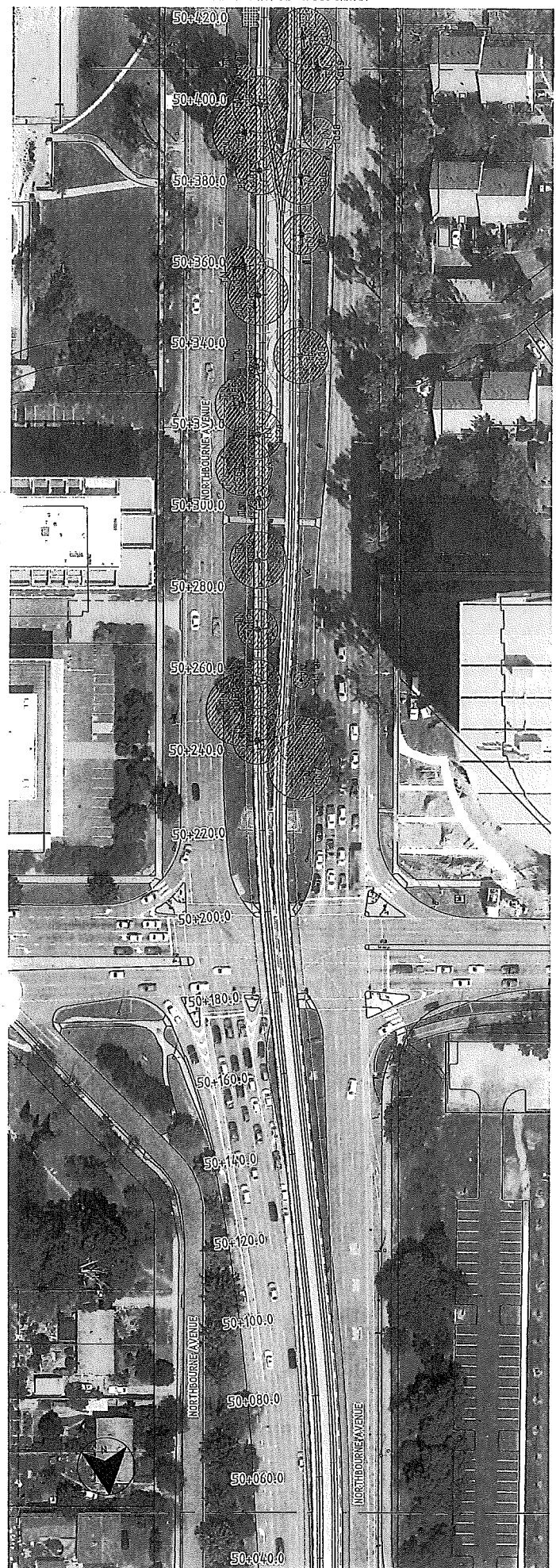
Michael

Michael Brice | Manager Urban Treescapes and Land Use |
Phone [redacted] | Fax 02 6207 5956 | Email michael.brice@act.gov.au
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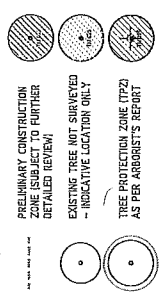
ADJOINS DRG No. CLR-LLU-DRG-0174



PRELIMINARY TREE ASSESSMENT SCHEDULE

TREE NO.	SPECIES	HEIGHT (M)	HEALTH	TPZ DIA. (M)	ULY / EXPECTED REMAINING LIFE (YEARS)	COMMENTS	TREE IMPACT	PROBABILITY OF RETENTION
TN1059	ECUATYUS BAYA	6.12M	FAR	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1106	ECUATYUS BAYA	5.24M	FAR/POOR	4.5	60 YEARS	DEADWOOD	DIRECT IMPACT	LOW
TN1107	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1109	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1114	ECUATYUS BAYA	5.44M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1116	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1117	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS	ALL BRANCH	DIRECT IMPACT	LOW
TN1119	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1120	ECUATYUS BAYA	5.24M	FAR	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1121	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1122	ECUATYUS BAYA	5.24M	FAR/POOR	4.5	60 YEARS	BRANCH	DIRECT IMPACT	LOW
TN1123	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1124	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1125	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1126	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1127	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1128	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1129	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1130	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1131	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1132	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1133	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1134	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1135	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1136	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1137	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1138	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1139	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1140	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1141	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1142	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1143	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1144	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1145	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1146	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1147	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1148	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1149	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1150	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1151	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1152	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1153	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1154	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1155	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1156	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1157	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1158	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1159	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1160	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1161	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1162	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1163	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1164	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1165	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1166	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1167	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1168	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1169	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1170	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1171	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1172	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1173	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1174	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1175	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1176	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1177	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1178	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1179	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1180	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1181	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1182	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1183	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1184	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1185	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1186	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1187	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1188	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1189	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1190	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1191	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1192	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1193	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1194	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1195	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1196	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1197	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1198	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1199	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW
TN1200	ECUATYUS BAYA	5.24M	GOOD	4.5	60 YEARS		DIRECT IMPACT	LOW

LEGEND



NOTE

This preliminary tree assessment is representative of information gained from the 2010 Tree Audit provided by the ACT Government, and the 2016 Audit by DSB Landscape Architects. Assessments have been conducted in accordance with the Tree Protection ACT 2005 and utilising a multi-criteria analysis with regards to construction impacts, local conditions, and tree health. Trees have been identified according to their probability of retention, and classified as High, Medium, and Low. The determination of the removal of any trees will be subject to final arborist's advice which may require detailed root investigation. Further investigation will be required in following stages to evaluate the structural integrity of remaining trees during and after construction, including a risk assessment of potential hazards of tree structural failure. The classification of existing trees may be further defined by additional survey, and detailed tree root investigations, location of existing services and further arborist's advice. For detailed descriptions of assessment criteria refer to Appendix A of Urban Design Scoping Report.



Brice, Michael

From: Badham, Matt
Sent: Friday, 8 August 2014 5:43 PM
To: Brice, Michael
Subject: Northbourne Ave

Michael,

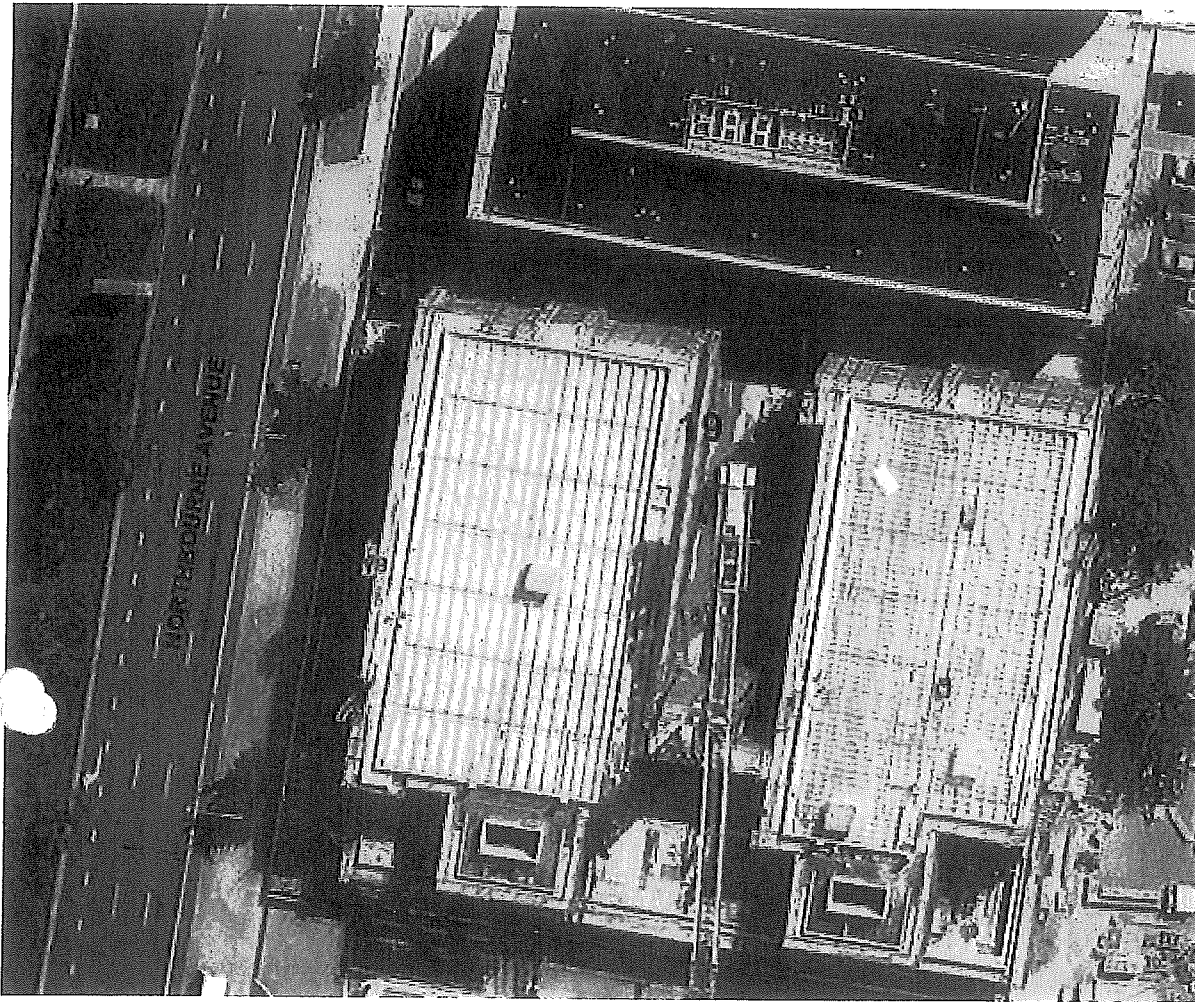
AS discussed there has been some damaged caused to the nature strip trees on the Northbourne Ave frontage of 78 Northbourne Avenue.

There is little to no tree protection for these trees, and what was there has been moved to allow the excavation of the new driveways. It appears that there is no tree protection management plan being enforced that then raises the question if there actually is one at all? I have spoken with Prue and she believes that there should be a landscape management and protection plan for these work but appears that it not being used, except to possible hold the door open.

(Please see the photos on the following link:

[image\Urban Treescapes\Tree Management\78 Northbourne Avenue](#)





Let me know if you need anything further,

Matt

Matt Badham | Operations Manager | Urban Treescapes

Phone | Fax 02 62076255 | Email Matt.Badham@act.gov.au

Parks and City Services | Territory and Municipal Services Directorate | ACT Government

Level 8, Macarthur House, 12 Wattle Street, Lyneham ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Allen, Richard

From: Allen, Richard
Sent: Tuesday, 12 August 2014 1:44 PM
To:
Subject: FW: Registration of tree at the F Northbourne Avenue Braddon

Good Afternoon,

The Tree Protection Unit has received a nomination for proposed registration of the Catalpa Sp. tree located on the Northbourne Avenue frontage of the hotel. The Conservator of Flora and Fauna is proposing to progress the registration. Officers from my unit will be undertaking an assessment of the tree with a view to advising the Conservator the tree should be entered onto the ACT Tree Register. The assessment can be undertaken from the footpath adjacent to the tree.

The Conservator can receive submissions from an authorised person in your organisation in relation to the proposed registration. If no feedback or comment is received in relation to the registration of the tree, it will be taken as supported by the owner or lessee of the property at Block Section Braddon. The decision by the Conservator to enter the tree on the ACT Tree register is appealable in the ACT Civil and Administrative Tribunal however appeal rights are only afforded to the nominator of the proposed registration.

Further notification of the registration will be forwarded to the lessee of Block Section following the assessment and recommendation process.

Regards,

Richard

Richard Allen | Technical Manager, Urban Treescapes Unit; City Services
Parks and City Services | Territory and Municipal Services Directorate | ACT Government
Phone: | Mobile: | email: richard.allen@act.gov.au |

Brice, Michael

From: Badham, Matt
Sent: Monday, 25 August 2014 6:38 PM
To: Joseph, Gabriel
Cc: Brice, Michael; Potter, Matt; Buckley, Prue
Subject: 78 Northbourne Ave

Hi Gabriel,

As discussed there has been significant damage caused to the nature strip trees at 78 Northbourne Avenue. This includes one (1) *Crataegus* 'Smithiana' on the Northbourne frontage and two historical *Ulmus sp.* on the Mort Street frontage.

I met with the builders on site on Tuesday 19 and Wednesday 20 August 2014 to discuss the issues of damage and how these issues could be rectified.

Northbourne frontage

The damage caused to the nature strip tree on the Northbourne Ave frontage, *Crataegus* 'Smithiana', included:

- root damage from the construction of the new drive way;
- branch torn and trunk damage from works within the tree protection zone (prior to 11 August); and
- trunk damage from works within the tree protection zone (between 12 and 19 August)

After the first-visit (19 August), under my instruction, part of the root plate was hydro excavated on 20 August 2014 to check the amount of damage and the structural stability of the tree after the damage. The hydro excavation revealed the impact of the construction had damaged the top layer of roots. The hydro excavation also showed a deeper layer of roots that at the time appeared to be intact. It is due to the deeper layer of roots that the tree is being supported and structurally stable. The recommended course of action at this time in relation to the damage is to continue to monitor the tree's health, condition and structural stability.

No remedial action is recommended for the wounds on the trunk, or the damaged top layer of roots. However for each of the trunk damaging incidents it is recommended that the company be charged under the *Public Unleased Land Act 2013*.

Mort Street frontage

OUT OF SCOPE

I hope this information is of assistance and please do not hesitate to contact me if you require any further information or clarification.

Thank you,

Matt

Matt Badham | Operations Manager | Urban Treescapes

Phone | Fax 02 62076255 | Email Matt.Badham@act.gov.au

Parks and City Services | Territory and Municipal Services Directorate | **ACT Government**

Level 8, Macarthur House, 12 Wattle Street, Lyneham ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Brice, Michael

From: Williams, Cindy
Sent: Friday, 10 October 2014 12:26 PM
To: Brice, Michael
Subject: FW: CLR - Tree Offset Guideline

Hi Michael,

I am not aware of the ACT having and such guidelines but are you able to point me in the right direction to confirm this?

Cheers,
 Cindy

Cindy Williams | Planning and Design


ACT Government | CapitalMetro

T | E cindy.williams@act.gov.au

GPO Box 158, Canberra ACT 2601

www.capitalmetro.act.gov.au

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From: 
Sent: Thursday, 9 October 2014 4:02 PM
To: Williams, Cindy; Percival, Tom;
Cc: Allday, Stephen;
Subject: CLR - Tree Offset Guideline

Hi Cindy, Tom and

I have just received a query from HASSELL regarding whether CMA is adhering to any particular 'Tree Offset Guideline', with relation to the replacement strategy for trees impacted by the project?

For Sydney Light Rail TfNSW had their own offset requirements that the Proponents had to follow, and this is what we used to develop our concept design. TfNSW offsets varied from a 1:1 to 1:8 replacement depending on the size of the tree.

Is CMA aware of any such guideline for our project?

Thank you

Associate Principal

Arup
 Level 10, 201 Kent Street Sydney NSW 2000 Australia
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Brice, Michael

From: Badham, Matt
Sent: Wednesday, 12 November 2014 10:17 AM
To: Jermyn, Peter
Cc: Brice, Michael; Saddler, Scott
Subject: FW: Tree needs pruning in Haig Park in Northbourne, left hand side going into the city
Attachments: 20141111_081606.jpeg

Hi Peter,

Can you please follow up and check the other major path ways through the park for clearance?

Thank you,

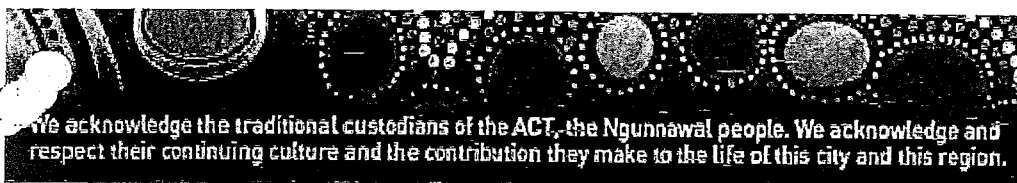
Matt

Matt Badham | Operations Manager | Urban Treescapes
 Phone | Fax 02 62076255 | Email Matt.Badham@act.gov.au
 and City Services | Territory and Municipal Services Directorate | ACT Government
 Level 8, Macarthur House, 12 Wattle Street, Lyneham ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

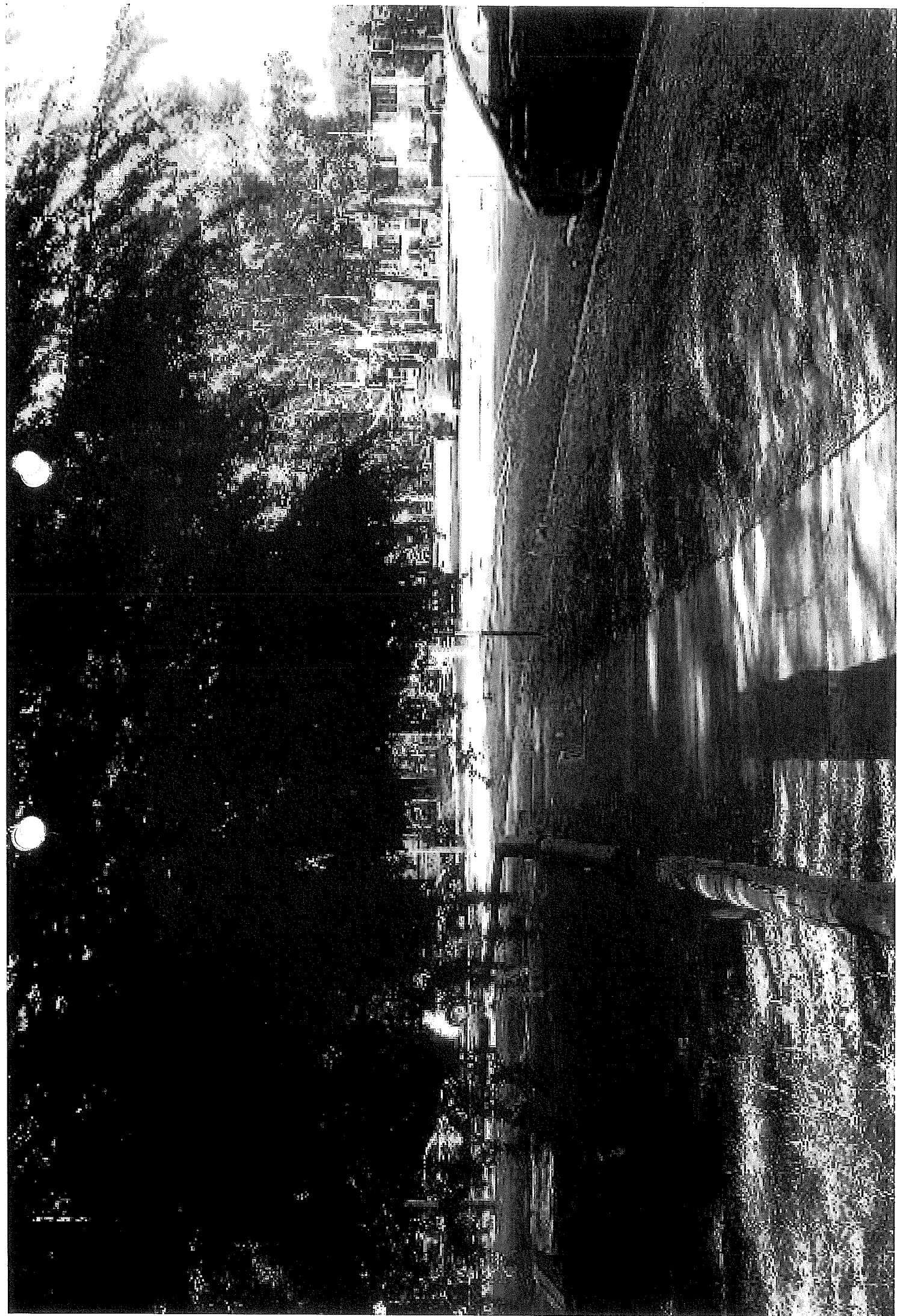
From: Saddler, Scott
Sent: Wednesday, 12 November 2014 9:59 AM
To: Brice, Michael
Cc: Badham, Matt
Subject: Tree needs pruning in Haig Park in Northbourne, left hand side going into the city

I have to do the Limbo every morning and I'm getting to old gents!!

Scott Saddler | Area Manager
 Phone | Fax 02 6207 5366 | Email scott.saddler@act.gov.au
 Place Management, City Services, Parks and City Services | Territory and Municipal Services Directorate | ACT Government
 Level 8, Macarthur House, 12 Wattle Street, Lyneham ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au



From:
Sent: Tuesday, 11 November 2014 8:17 AM
To: Saddler, Scott
Subject:



DOCUMENT 45

Exempt

Section 36:

Internal working document

Allen, Richard

From: Allen, Richard
Sent: Wednesday, 14 January 2015 11:09 AM
To: Flanery, Fleur; Bulkeley, Luke
Subject: RE: Fixed object crash records along light rail route

Tracking:	Recipient	Read
	Flanery, Fleur	Read: 14/01/2015 11:12 AM
	Bulkeley, Luke	Read: 14/01/2015 11:10 AM

Hi Fleur,
 Luke and I have reviewed the attachments. Would it be prudent if we both went to the workshop? I have a tree valuation meeting with Brett Wilesmith at 10.30 but can make the 8:30 time. It would be valuable experience for us both.

Thanks

Richard

From: Flanery, Fleur
Sent: Wednesday, 14 January 2015 9:09 AM
To: Allen, Richard; Bulkeley, Luke
Subject: FW: Fixed object crash records along light rail route
Importance: High

Luke/Riahcrd

A meeting has been arranged tomorrow morning, 8.30 – 10 re the above mentioned topic. In Michael's absence, could one of you or Matt attend (I think Matt may still be on leave). Can you let me know who will attend as I need to advise Fay

I don't have much information but I understand there are concerns about trees and the proximity to the Capital Metro line. Can you look for options. Perhaps check what's done in Melbourne or Brisbane. Both cities have light aid and trees.

Thanks

Fleur

From: Steward, Fay
Sent: Tuesday, 13 January 2015 11:35 AM
To: Flanery, Fleur
Cc: Herd, Brenda
Subject: FW: Fixed object crash records along light rail route
Importance: High

Fleur I expect Michael is away at present – who do you recommend who has the experience and knowledge to contribute to the workshop?

Fay Steward

Executive Director

National Arboretum Canberra

Parks and City Services Division

Territory and Municipal Services

PH: FAX: (02) 6207 6034

From: Peters, Paul
Sent: Tuesday, 13 January 2015 10:28 AM
To: Cloos, Karl; Steward, Fay
Cc: Allday, Stephen
Subject: FW: Fixed object crash records along light rail route
Importance: High

Hi Karl, Fay

Capital Metro would like to hold a short workshop with key TAMS staff to discuss the risks and their possible mitigation around the landscaping / tree placement along the Gungahlin to Civic corridor following on from their incident record request below.

Would it be possible for you to nominate a traffic management rep and tree management rep to Stephen so this can occur please? There is some urgency on it due to the Request for Proposal documentation and cabinet approvals so if you can get back to him today / tomorrow it would be helpful.

Thanks

Paul Peters
Executive Director
Roads and Public Transport

Territory and Municipal Services

Ph

From: ~~Paul Peters~~
Sent: Tuesday, 6 January 2015 4:38 PM
To: Shoukrallah, Rifaat
Cc: ~~Paul Peters~~
Subject: Fixed object crash records along light rail route

Hi Rifaat,

As discussed this afternoon, we are interested in crash records for vehicle crashes with fixed objects along the proposed light rail route.

The specific sections of road along the route are Flemington Road for its full length, Federal Highway from Flemington Road to Barton Highway, and Northbourne Avenue from Barton Highway to Alinga Street.

In terms of crash type, we are interested in crashes with any fixed objects in either the median or the verge. If it's possible to identify the specific object/type, that would be helpful.

As for the period, we'd like all available records.

If you need any further clarification of the information we're interested in, please let me know. Thank you for your help.

Regards,

Civil Engineer | Transport & Resources

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DOCUMENT 47

Exempt

Section 35:

Executive Document

Section 36:

Internal working document

Document 48

Exempt

Section 36:

Internal working document

DOCUMENT 49

Exempt

Section 36:

Internal working document

Brice, Michael

From: Georgeson, Matthew
Sent: Wednesday, 11 February 2015 4:28 PM
To: Brice, Michael; Bourne, Sarah
Subject: RE: Trees report

Yep, that's all good – thanks.

Below I meant to say "I take this as advice from TAMS..."

From: Brice, Michael
Sent: Wednesday, 11 February 2015 4:24 PM
To: Georgeson, Matthew; Bourne, Sarah
Subject: RE: Trees report

Matthew

That is definitely my position however I think the other underlying factors including the 10 years of drought, drought, seasonal conditions, irrigating the trees for 20 years, turning down irrigation as part of Government policy and presence of the fungus *Phyllinus* that is killing the trees, make the story more likely. This is not to mention that the original assessment was done 5 years ago and circumstances have changed somewhat as a result of the combined things I have mentioned above.

Thank-you

Michael

Michael Brice | Manager Urban Treescapes |
 Phone **Fax 02 6207 5956** | Email michael.brice@act.gov.au
 City Services, Parks and City Services | Territory and Municipal Services Directorate | ACT Government
 Level 8, Macarthur House, 12 Wattle Street, Lyneham ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Georgeson, Matthew
Sent: Wednesday, 11 February 2015 4:13 PM
To: Bourne, Sarah; Brice, Michael
Subject: RE: Trees report

OK thanks.

I think this is the key point: "many of the other 250 will continue to decline rapidly and will not have ULE of 20 years".

Essentially I take this advice from TAMS that although the 2010 report advised that 65 per cent of the Northbourne trees had a likely life expectancy of more than 20 years, the likelihood is that many of these will continue to decline rapidly and will not in fact have a useful life expectancy of 20 years.

Are you satisfied with that Michael?

Matt

From: Bourne, Sarah
Sent: Wednesday, 11 February 2015 3:45 PM
To: Georgeson, Matthew
Subject: FW: Trees report

From: Brice, Michael
Sent: Wednesday, 11 February 2015 3:44 PM
To: Bourne, Sarah
Subject: RE: Trees report

Sarah

It is worthy to note that the report was provided to TAMS on 22 March 2010 so it is almost 5 years since the assessment and report was completed.

At the time there were 531 *Eucalyptus elata* (River peppermint) trees in the median strip of Northbourne between Alinga Street and Antill St south. Of these trees about half were assessed as having good health while the remaining 48% were assessed as fair to very poor/dead. Since then we have removed just over 100 River peppermints meaning that less than 430 remain. A number of the remaining River peppermint trees are currently in decline and a number will need to be removed in the relatively short term regardless of the decision about light rail. The presence of fungus in many of the trees and other site factors have led to the

According to the report completed by DSB in March 2014 about 40% of the remaining trees were assessed as fair to poor (most 200).

It is important to note that about 710 River peppermints were planted between 1983 and 1985 or so and that there has been a steady decline of these trees including significant losses during the drought years.

The term Useful Life Expectancy (ULE) is a term that describes an estimation of the how long a particular tree can be retained usefully before costs associated with its maintenance can be expected to be greater than the benefit provided by the tree. It is very much an estimate that takes the following factors into account;

- the usual life expectancy of the tree in years
- the age of the tree

Local factors may lead to the earlier demise of a tree. In the case of the River peppermints, the fact that the trees were irrigated for the first 20 years of their life has meant they grew quickly and are now very prone to the effects of fungal decay. The effect of the drought years and the need to turn back irrigation by about 40% as part of the Government's water saving restrictions have had a profound effect on these trees meaning that they are declining much more rapidly than could usually be expected.

It is highly likely that the 180 trees assessed as fair to poor in the 2014 assessment will need to be removed during the next 5 or so years while many of the other 250 will continue to decline rapidly and will not have ULE of 20 years.

I hope this helps.

Michael

Michael Brice | Manager Urban Treescapes |
Phone | Fax 02 6207 5956 | Email michael.brice@act.gov.au
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From: Bourne, Sarah
Sent: Wednesday, 11 February 2015 3:13 PM
To: Brice, Michael
Subject: FW: Trees report
Importance: High

From: Georgeson, Matthew
Sent: Wednesday, 11 February 2015 3:12 PM
To: Bourne, Sarah
Subject: Trees report
Importance: High

Hi Sarah

The trees report (as cited in the Canberra times) notes, re the Northbourne trees, that "65 per cent had a likely life expectancy of more than 20 years." Can our TAMS friends please provide some context to this, especially about what this may mean practically? Eg. Even though they may live for 20 more years, could they nevertheless be unhealthy or dangerous during this time?

thanks

Matthew Georgeson | Adviser to Greens Minister Shane Rattenbury
ACT Greens Member for Molonglo
Minister for Territory and Municipal Services; Corrections; Housing;
Original and Torres Strait Islander Affairs; and Ageing.
P: | f: 620 50097 | matthew.georgeson@act.gov.au

Follow Shane on [Facebook](#) and [Twitter](#)

Brice, Michael

From: Thursday, 12 February 2015 2:35 PM
 Sent: Brice, Michael
 To: Re: Eucalyptus rossii
 Subject:

Hello Michael,

Thank you for this I will forward it to some other members and get a view from [redacted].

The best I can think of (off the top of my head) is *E. michaeliana*. It was the best at the Weston trial after all that nature could throw at it. Pru knows where they are to be found in Weston park. There is a large one in a garden in Kitchener Street in Hughes. It's the house of the Techo from CSIRO who collected the seed. One advantage would be the minimal bark shed. Quite a problem with *rossii* particularly in a wildflower meadow I would think.

There is a report on that trial with you, done in 2010 for Fran.

E. rudderi which came out second in 2010 and was recommended in 1991 and 1986. I think it is still there at the top of the site.

baueriana was in the top ten and was also recommended in 1991 and 1986

The problem is they are not local.

Perhaps it would be wise to plant say 3 species at a spacing which would allow one or even two to fail or do poorly. Frequently eucs are planted close anyway They are not able to grow out good canopies as the genus is shy. See Jacobs Growth Habits of the Eucalypts.

I must say I would not like to be responsible for managing this tree planting - good luck.

Regards

On 12/02/15 11:12 AM, "Brice, Michael" <Michael.Brice@act.gov.au> wrote:

How's things? I hope you are fit and well?

I was talking to Sam Ning yesterday and she showed me your opinion piece about the possible use of *E. rossii* as the replacement for River peppermints on Northbourne Avenue if Capital Metro (CM) goes ahead.

I have enclosed several shots of *E. rossii* that we've taken recently that provide a fair indication of how the tree is performing as a street and parkland tree across the city. I'll send a second email with other shots. It can be an attractive squat tree which is exactly what is needed in the Northbourne median and according to [redacted] it will tolerate heavy clay soils.

I had many discussions with [redacted] about the problems we were having with the *Elatas* (even before Capital Metro was mooted) and he suggested that *E. rossii* would be suitable replacement. This was mostly because of the soil profile (imported top soil on top of heavily compacted clay) which is similar to many of the natural locations where *E. rossii* occurs. There was a reluctance by CM to consider a second row of *E. mannifera* and the NCA insisted the replacement trees had to be Eucs so it didn't leave us a lot of options. If you or [redacted] or any of the group have alternative suggestions I'd be interested to hear them, as no final decision on any aspect of the project has been made at this stage and the proposed tree species and radical idea to plant a 3.5 ha wildflower meadow along the median strip is currently out for public comment. You or the [redacted] may like to provide input via haveyoursay.capitalmetro.act.gov.au.

I am happy to discuss any of these issues at any time.

All the best.

Michael

Michael Brice | Manager Urban Treescapes|

Phone Fax 02 6207 5956 | Email michael.brice@act.gov.au

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Brice, Michael

From: Larry O'Loughlin [communications@conservationcouncil.org.au]
Sent: Friday, 13 February 2015 4:51 PM
To: Brice, Michael
Subject: Re: One or two tree reports re Capital Metro

Thanks Michael, I'll go directly to Capital Metro.

I am also aware from the material gathered for the Commissioner's Tree Management Report that there is sometimes good sense in taking a (urban?) forestry approach on significant plantings and do all the trees at once. In the case of Northbourne it might allow for deeper planting zones and longer lived trees with the next planting.

Thanks for your work on this, it is useful material.

Regards

Larry

On 13 February 2015 at 16:40, Brice, Michael <Michael.Brice@act.gov.au> wrote:

Larry

I am not prepared to release sections of the DSB report, that was provided to capital metro in March 2014, because they commissioned it.

I could see no reason why they wouldn't give it to you because it was an update of the Homewood report we commissioned which is out there and we provided the electronic tree locations and other data as a base point for consistency.

In summary there are about 60 trees in the median north of Barton Highway including 11 young plums and about 23 young eucs with the rest being mature E bicostata, E maidenii or poplars. Obviously the young plums and young eucs have much longer ULE than the mature Eucs, some of which have been given over 30 years ULE. As usual many of the blue gums are affected by rot and will not hang on as long as expected/estimated.

There are about 425 remaining river peppermints in the median of Northbourne Ave between Alinga St and Antill St south with many suffering from the issues below.

The DSB total for healthy trees (including the young trees I've mentioned above between Barton and Flemington) stands at 202. This means they assessed about 170 of the 420 elatas as healthy although you have my opinion about their ULE and what is likely to affect it.

Thank you

Michael

Michael Brice | Manager Urban Treescapes |
Phone | Fax 02 6207 5956 | Email michael.brice@act.gov.au

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From: Larry O'Loughlin [<mailto:communications@conservationcouncil.org.au>]
Sent: Friday, 13 February 2015 4:05 PM
To: Brice, Michael
Cc: Carder, Jane; Clare Henderson
Subject: Re: One or two tree reports re Capital Metro

Thanks Michael

I asked Alistair Coe's office for the report and they directed me to: <http://www.alistaircoe.com.au/wp-content/uploads/2015/01/2010-Northbourne-Avenue-Tree-Inventory-Report.pdf>

Could not find the location of the FOI released report on the CMD website. I thought it might be here but there was a failure to load: http://www.cmd.act.gov.au/open_government/foi/tamsd/streetlights-on-northbourne-avenue

Do you have the "March 2014 assessment, completed by local firm dsb Landscape Architects"? I didn't ask Mr Coe's office for that. Should I go to Capital Metro?

I take your points regarding the trees and they will be useful for the next time we need to answer a question on them.

We would also tend to agree that the light rail or not there has to be management and removal of at least some of those trees for the reasons you outline.

Regards

On 13 February 2015 at 11:29, Brice, Michael <Michael.Brice@act.gov.au> wrote:

Larry

Thank you for your enquiry.

You are right about the report being the 2010 report prepared by Homewood Consulting. Mr Coe sought information about Northbourne under FOI last year and government provided a copy of the 54 page report (among other things) to him at his request.

He has since analysed the report and at various times cited sections, statistics and other information that suits his needs. As with all audits they are out of date shortly after they are completed.

The telling issue as you know is that a number of factors have affected the performance and long term viability of the River peppermint trees including, the use of "turf" irrigation regime after they were planted, the apparent poor site preparation and shallow layer of top soil over compacted clay, alleged poor planting stock, 10 years of drought, 40% reduction in water during the drought, very rapid growth as a result of a "turf" irrigation regime that also promoted the development of weak shallow roots, the rapid growth also led to rot prone fast grown timber, the presence of *Phyllinus* fungus and seasonal factors among other things. All this has contributed to a more rapid decline of the trees than expected and a reduced ULE. If they are left alone, I will be very surprised if any of them live for 20 years let alone 65% having a ULE greater than 20 years.

There are some beautiful River peppermint trees near Latrobe Park depot that are more than 60 years old with a ULE of more than 20, so these trees have developed differently to the Northbourne trees where site factors have affected their performance.

Regardless we have removed more than 100 River peppermints during the past 3 years and I expect many more will need to go in the short term, regardless of the light rail project.

Thank you

Michael

Michael Brice | Manager Urban Treescapes|
Phone () | Fax 02 6207 5956 | Email michael.brice@act.gov.au

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From: Larry O'Loughlin [<mailto:communications@conservationcouncil.org.au>]

Sent: Wednesday, 11 February 2015 10:11 AM

To: Carder, Jane

Cc: Brice, Michael

Subject: Re: One or two tree reports re Capital Metro

note that Mr Coe has a motion in the Assembly today and talks of the Tree Inventory.

You might be busy preparing a response so this can wait until after that but I take it that the Inventory on which he speaks is the same as the 2010 report. Is that right?

The Commissioner's report on Tree Management might have included a mention of the trees of Northbourne. I know we were advised informally and verbally that the trees had only a few years of ULE in that location and that in order to avoid the missing tooth look of removing a few trees at a time a broad scale replanting was considered the best option aesthetically, economically and for public safety. This had nothing to do with light rail.

ie Coe motion is:

*6 MR COE: To move—That this Assembly: (1) notes a Tree Inventory Report completed for the ACT Government found that: (a) there were 531 Eucalyptus elata trees located within the median strip between Alinga and Mouat Streets on Northbourne Avenue; (b) 75% of these trees exhibited good or fair health; and (c) 65% of these trees had a useful life expectancy of 20 years or greater; (2) notes that in order to construct Capital Metro, it is likely all these trees will have to be chopped down; and (3) calls on the ACT Government to cancel the Capital Metro Light Rail project. (Notice given 10 February 2015. Notice will be removed from the Notice Paper unless called on within 8 sitting weeks—standing order 125A).

On 9 February 2015 at 18:57, Carder, Jane <Jane.Carder@act.gov.au> wrote:

Hi Michael,

Can you please provide advice on the tree reports or the contact details for Capital Metro to Larry?

Thank you,

Jane

Jane Carder | Manager |
Phone | Fax 02 62075366 | Email jane.carder@act.gov.au

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Level 8, Macarthur House, 12 Wattle Street, Lyneham ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Larry O'Loughlin [<mailto:communications@conservationcouncil.org.au>]
Sent: Monday, 9 February 2015 6:24 PM
To: Carder, Jane
Subject: Fwd: One or two tree reports re Capital Metro

Hello Jane

Can you please assist with the reports as below? I received an out-of-office response from Fleur directing me to you.

Thanks

Larry

----- Forwarded message -----

From: Larry O'Loughlin <communications@conservationcouncil.org.au>
Date: 9 February 2015 at 18:21
Subject: One or two tree reports re Capital Metro
To: fleur.flanery@act.gov.au, CMAFeedback@act.gov.au, kuga.kugathas@act.gov.au
Cc: Clare Henderson <director@conservationcouncil.org.au>

Hello Fleur and Kuga and Capital Metro

I am seeking advice on the trees of Northbourne Avenue.

There has been some discussion in the Canberra Times and the Conservation Council has also provided comment to 2CA - see their report below. We actually supported a change of trees too.

In order to be fully informed the Conservation Council is seeking links to, or copies of, two reports referred to by Capital Metro (see below). Can you please provide these links or copies?

Whose reports are these? Are they TAMS or Capital Metro?

Thanks

Capital Metro says:

- In recent times the trees along this famous gateway have been assessed; once in 2010 and recently in March 2014.
- The 2010-assessment noted 802 trees in the corridor and of these, 513 were noted as being in good health.
- The March-2014 assessment, completed by local firm dsb Landscape Architects found that through failing health, storm damage and removal of dead or dangerous trees, the total number of trees has dropped to 484.
- Within the remaining 484 trees, the number of healthy trees now sits at 59 percent and this number is expected to continue to decline in coming years.

<http://www.2ca.com.au/news/canberra/4350-conservation-group-supports-move-to-have-wildflowers-on-northbourne-avenue>

Conservation Group supports move to have Wildflowers on Northbourne Avenue

1

The Australian Capital Territory conservation council has supported the move to replace the River Gums down Northbourne Avenue, to make way for the light rail project.

The landscape design for the rail network was released yesterday, revealing a plan to replace the failing trees with smaller varieties and a spread of wild flowers.

Larry O'Loughlin from the ACT conservation council said, the wild flower proposal is a good idea.

"People can start to appreciate the unique and beautiful grass lands, and wild flowers we have around Canberra," he said.

"The grass lands are one of Canberra's best habitats and to replicate that in some way along our main street is a really great thing to do".

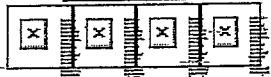
Thank you

--

Larry O'Loughlin, Assistant Director - Policy and Communication, Conservation Council ACT Region
14/26 Barry Drive Canberra ACT 2601 PO Box 544 Canberra ACT 2601

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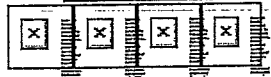


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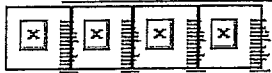
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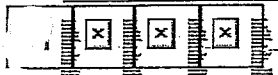


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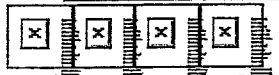


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Brice, Michael

From:
Sent: Wednesday, 18 February 2015 8:29 AM
To: Brice, Michael
Cc:
Subject: FW: E. rossii for Northbourne

Michael

Thanks for seeking comments from me - always happy to have a little say on tree matters.

I thought rossi was a interesting suggestion.

I understand the NCA requirements but wonder about Eucs. Slower growing or smaller species maybe take 15 years to make an impact, maybe provide a reasonable streetscape for 25 years and then deteriorate over 15 years to the point where remainder are removed. Hardly a good solution for such a main entry point to Canberra.

I actually have not much experience with planted rossi. Both "Trees and Shrubs in Canberra" and "Forest Trees of Aust" refer to skeletal soils etc, although there is a comment about "occasionally extending to small flats and valley bottoms". I suspect there will be a fair variation in form with trees grown from seed, like nearly all the Eucs grown in Canberra. This will be important when trees are grown in a single row. and others have made alternative suggestions and I cannot add to these.

I remember rating one tree as an 'E' tree growing on the Western edge of the Molonglo development. Probably the best rossi I have seen on my travels. Hopefully still there and I could show anybody that might be interested.

Regards

From:
Sent: Thursday, 12 February 2015 2:46 PM
To:
Subject: E. rossii for Northbourne

FYI I have left out the photos which are very large.
 Comments please for ... to prepare a view.

How's things? I hope you are fit and well?

I was talking to Sam Ning yesterday and she showed me your opinion piece about the possible use of E rossii as the replacement for River peppermints on Northbourne Avenue if Capital Metro (CM) goes ahead.

I have enclosed several shots of E rossii that we've taken recently that provide a fair indication of how the tree is performing as a street and parkland tree across the city. I'll send a second email with other shots. It can be an attractive squat tree which is exactly what is needed in the Northbourne median and according to

it will tolerate heavy clay soils.

I had many discussions with [redacted] about the problems we were having with the Elatas (even before Capital Metro was mooted) and he suggested that E rossii would be suitable replacement. This was mostly because of the soil profile (imported top soil on top of heavily compacted clay) which is similar to many of the natural locations where E rossii occurs. There was a reluctance by CM to consider a second row of E mannifera and the NCA insisted the replacement trees had to be Eucs so it didn't leave us a lot of options. If you or [redacted] or any of the group have alternative suggestions I'd be interested to hear them, as no final decision on any aspect of the project has been made at this stage and the proposed tree species and radical idea to plant a 3.5 ha wildflower meadow along the median strip is currently out for public comment. You or the [redacted] may like to provide input via haveyoursay.capitalmetro.act.gov.au.

I am happy to discuss any of these issues at any time.

All the best.

Michael

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