The following has been released in relation to a request for information relating to the Tasman Highway lane upgrade.

> From: To: Cc: Subject: RE: North Baker Habitat Assessment Date: Wednesday, 29 March 2023 3:25:00 PM Hi I agree with comments below, please ask \$36 to update the habitat assessment with the comments from DCCEEW send on 16/3. Can you please send them through to review before the end of this week? Thanks, Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001 www.stategrowth.tas.gov.au Courage to make a difference through TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land. Please note I do not work Fridays. From: stategrowth.tas.gov.au> **Sent:** Monday, 27 March 2023 4:34 PM @pittsh.com @stategrowth.tas.gov.au @pittsh.com.au>; Cc: 5 36 @northbarker.com.au> @stategrowth.tas.gov.au> Subject: RE: North Baker Habitat A Hi It seems to me it might be an advantage doing it twice, once on the 12th April by 36 again on \$36 return (perhaps \$36 together) it provides for \$36 as a potential

back-up when significant is sailable going forwarded and it seems to me that so often there is something observed later that wasn't observed the first time. Certainly we've had tat a number of road projects recently.

is agreeable to that approach I'm happy to pay for two site visits, but only one report of course.

Regards

State Roads | Department of State Growth Level 2, 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

www.stategrowth.tas.gov.au

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In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

From: <mark>§ 36</mark>	@pittsh.com.au>
Sent: Monda	ay, 27 March 2023 3:06 PM
То:	@stategrowth.tas.gov.au>
Cc: s 36	@pittsh.com.au>; \$ 36
<u>@</u>	<u>morthbarker.com.au</u> >;
	@stategrowth.tas.gov.au>
Subject: Nor	rth Baker Habitat Assessment
Good aftern	oon
o	
Sent from m	ly iPhone
Good	afternoon
	e discussed the habitat assessment with \$ 36 from North Barker and
	vises that it might be possible to assign other staff to the assessment and
poten	ntially meet your proposed 12 th April date (noting that we do have to confer
	DCCEEW before then). Both s 36 and I have reservations about going down
	ath for the following reasons.
i.	has been involved with the Environmental assessment since
	the start in October 2019 and s 39
::	Ideally new people on the project should be briefed by \$36 before
11.	undertaking the work and this is now not possible with self-
	overseas on leave. \$ 36 had planned to take a North Barker staff member
	with him on the proposed $14^{th} - 15^{th}$ March assessment that was cancelled
	at the last minute by \$\frac{36}{36}\$.
iii.	DCCEEW's response to the assessment methodology was only received on
••••	16 th March and \$36 did want to meet with the Assessment Team
	to clarify certain aspects of their comments. The points of clarification are
	only known to 36 and without this clarification any assessment done
	prior to \$ 36 return is likely to be sub optimal and may require
	additional field work and further review with DCCEEW. On this basis we do
	not believe that proceeding with the Habitat Assessment in \$36
	absence will save much if any time recognising that a thorough review will be
	required when \$ 36 returns.

Principal Engineer

Mobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone + 366

pittsh.com.au

Subject: RE: North Baker Habitat Assessment

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Hi **s 36**

NB changed the date from Wednesday to Tuesday, the landowner was not available on Tuesday. $\frac{8}{39}$

. I've asked for the

RSC plan and draft offset management plan for weeks/months which have not been provided. The offset management plan started to be developed until almost 9 months after DCCEEW visit in ~March 2022, this only commenced after the department asked for an update. Meeting we DCCEEW in November last year, habitat assessment methodology was provided a month/months the meeting.

. NB, or another entity, need to undertake the habitat assessment on 11-12 April on Milford following a meeting with Canberra early next week.

Thanks,

Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

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Please note I do not work Fridays.

From: \$36 @pittsh.com.au>

Sent: Wednesday, 22 March 2023 2:50 PM

To: <u>@stategrowth.tas.gov.au</u>>

Subject: Re: North Baker Habitat Assessment

Hi

I'm not able to do that. Refer my earlier email.

Regards

s 36

Sent from my iPhone

On 22 Mar 2023, at 14:39,

@stategrowth.tas.gov.au> wrote:

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Hi **s 36**

We cannot be dependent on one person, and need to progress while s 36 is on leave. Can you please send through the updated methodology by the end of this week for many review and set a meeting with DCCEEW early next week to work through any matters needed. We cannot afford to lose another month.

Thanks,

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Please note I do not work Fridays.

From: \$ 36 @pittsh.com.au>

Sent: Wednesday, 22 March 2023 12:56 PM

To: <u>@stategrowth.tas.gov.au</u>>

Subject: Re: North Baker Habitat Assessment

Please read \$36 emails of 14 March. He will do the field work in the period 22-24 May. Please coordinate and agree suitable days in that window with \$36 . Two days needed. His revised methodology is attached to last weeks emails. We are going to set up a further meeting with DCCEEW for 16 May to clarify a few matters

Haven't heard back from Wildseed yet.

Regards

s 36

Sent from my iPhone

prior to the survey.

On 22 Mar 2023, at 11:31,

@stategrowth.tas.gov.au> wrote

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi **s36**

We need to keep this moving in \$36 absence. Have NB updated the methodology with DCCEEW's comments/feedback? We need to update this and send it to \$36 /lock in a time with \$36 to undertake the habitat assessment on Milford. \$36 has suggested 10-12 April although that includes Easter Monday. I'll lock in 11-12 April with \$36 , please confirm NB will be on site on these dates.

Thanks,

Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

s 36

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In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: \$ 36 @northbarker.com.au>
Sent: Tuesday, 14 March 2023 4:53 PM

To:

@stategrowth.tas.gov.au>; \$ 36

@pittsh.com.au>

Subject: RE: North Baker Habitat Assessment

Hi ,

As I am on leave until May, I suggest postponing any work in this area until that time. This will also ensure we can accommodate any feedback from DCCEEW regarding our methodology. I'm reluctant to bring in someone else from North Barker at this stage.

I suggest for \$36 benefit that she should be provided with a copy of my Orchid Impact Offset Review. This may alleviate her concerns regarding soil sampling, which does not form part of the exercise. Attached is an updated version where I have modified the cut off quantum for scoring impact from animal digging from 5% to 25 %. This version also has a modified Figure 1 that correctly shows the orchid habitat directly impacted (minor mapping error).

The sampling sites for the orchid management area are identified in a georeferenced pdf.

Data to be collected will be taken from 5 x 5 m quadrats and include observed cover densities following an adapted Braun-Blanquet cover class . No plant material will be taken.

Regards 36

s 36
Director / Principal Ecologist
<image001.png>

s 36

313 Macquarie St, Hobart, TAS. 7000

www.northbarker.com.au

We pay our respects to the muwinina people, on whose unceded land we work. We acknowledge all palawa people across lutrawitta / Tasmania, their elders past, present and emerging, and their continuing history of sustainable land management.

@stategrowth.tas.gov.au>

Sent: Tuesday, March 14, 2023 2:06 PM

Subject. FW. North baker Habitat Assessine

Importance: High

Hi**s 36**

be postponed, I've let 36 know (through her lawyer).

mentioned that Canberra had changes to our methodology, are you able to completed the sections in yellow below or do you need to wait for Canberra's feedback?

Can we organise a site visit for 11 & 12 April? I know is away although I'm sure there is another resource that can assist in the interim.

Thanks,

Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

PH: 6166 3422 | \$ 36

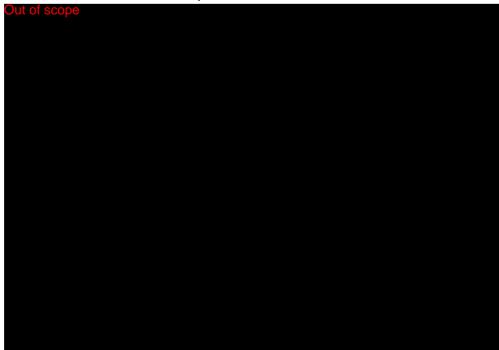
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Please note I do not work Fridays.





Tasman Highway Upgrade

Hobart Airport to Pittwater Bluff

EPBC 2020/8805

Offset Appraisal

V4.0 14 March 2023

The purpose of this document is to seek the Department of Climate Change, Energy, the Environment and Water (DCCEW) endorsement of the methodology for assessing the impact area and offset area. It also provides a method for monitoring the condition of the offset area over time. Once endorsed the impact and offset areas can be scored a condition (Habitat Quality) score. The information included in this appraisal will be incorporated along with the data from assessment into the Orchid Offset Area Management Plan.

NB The Orchid Offset Area Management Plan will describe ongoing management of the Orchid Offset Management Area on Milford. That document is to be distinguished from the Roadside Conservation Site Management Plan on State Growth land and the orchid management prescriptions in the Construction Management Plan.

The assessment by Department of Agriculture, Water and the Environment (DAWE), now Department of Climate Change, Energy, the Environment and Water (DCCEEW), subsequently referred to as the Department, has determined ¹ there to be residual significant impacts to two critically endangered orchids (MNES) as summarized in Table 1. The area of known range has been taken from mapped area of critical habitat for each species from the Orchid Impact Assessment and Mitigation Plan (North Barker 02-02-2022).

Table 1: Impact to known range of orchids

Species	Direct Impact	Indirect Impact
Milford leek-orchid (<i>Prasophyllum</i> milfordense)	0.08 ha (0.40%)	0.04 ha (0.31%)
Sagg Spider-orchid (<i>Caladenia</i> saggicola)	0.08 ha (0.37 %)	0.05 ha (0.24%)

The Department has also determined that without avoidance of impacts, the residual significant impacts will require offsetting.

Following review of an earlier draft of this document and subsequent meeting on 22 November 2022 between the consultants, DCCEEW and Department of State Growth (State Growth) the methodology has been adapted to provide greater rigor to scoring habitat quality for use within the offset calculator but also for future condition monitoring.

1

¹ (email from \$ 36 (16/3/2022)

Offset Area

The Orchid Habitat Offset Management Area incorporates 5.5 ha of critical orchid habitat (the offset) immediately adjoining the impact area (0.13 ha) (Figure 1). The Orchid Habitat Offset Management Area (6.1 ha) is bounded by the new Milford property boundary with the Tasman Highway to the north, Pittwater Road to the west and an existing management track to the south and east (Figure 2). It incorporates over 30 % of the critical orchid habitat capturing significant areas of orchid locations for both species (Figure 3).

The location for the Orchid Habitat Offset Management Area has been selected as it incorporates areas of orchid habitat most likely impacted by secondary effects from the existing and potentially any consequential disturbance from the proposed road upgrade. It corresponds to Milford Forest Management Unit 4 in the Milford Fire Management Plan 2008.

The offset area will be secured within a covenant on title.



Figure1: Critical Orchid Impact and Offset Areas

DSG022 14/03/2023 LD

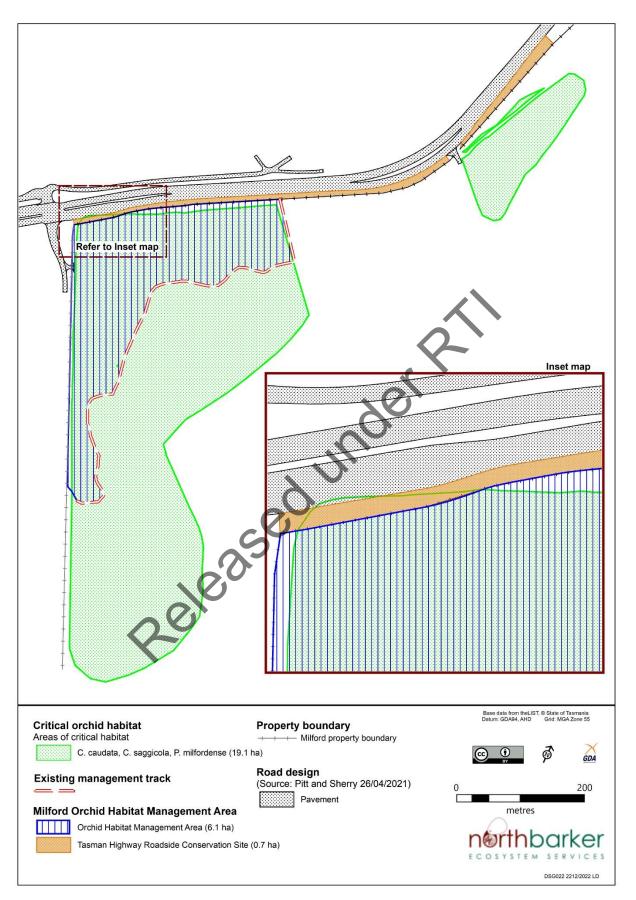


Figure 2: Orchid Management Area

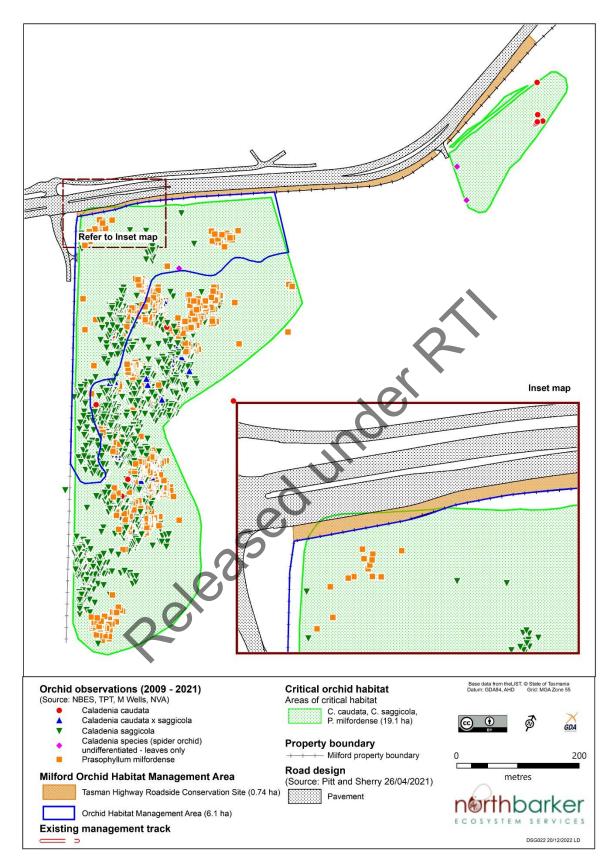


Figure 3: Orchid records and Orchid Management Area

Offset calculator

The Offset calculator takes into account the area of offset and management actions required to form the offset for the direct and indirect impacts.

The areas of impact and offset used in the calculations incorporates habitat for both species and so can be assessed concurrently. Both species are categorized as critically endangered which means the annual probability of extinction used by the calculator for both species is the same.

In the calculator we have taken a conservative approach and accumulated the areas of direct impact to 0.16 ha (0.08+0.08).

It is unclear how the direct and indirect offsets can be calculated on a single calculator. The offset calculator also doesn't appear to be able to take into account different offset area to impact area when considering indirect impacts that will not result in total loss but instead affect habitat quality.

A conservative approach has therefore been taken for indirect impacts by assuming total loss of habitat and quantifying the impact area as an accumulation of the two species – 0.09 ha (0.05 + 0.04). The area affected by indirect impacts is very likely to retain some habitat values for orchids.

For the purposes of the calculator total Impact Area = 0.25 ha

Habitat Quality

The Calculator relies on a Habitat Quality measure for the habitat to be scored between 1-10.

The Habitat Quality score is utilized to apply the Offset calculator. The Guidelines indicate quality to be made up of three components: site condition, site context and species stocking rates. "The weighting given to each component is dependent of the ecological requirements of the impacted species".

In this case we are considering habital for three threatened orchid species. These are all terrestrial species.

<u>Site condition</u>. Variable habitat quality factors most applicable to the edaphic requirements of these species relate to the level of competition in the ground layer. Overdeveloped biomass can inhibit the vigor of orchids through competition for light and also within the rootzone. At Milford competition from introduced weeds, and native vegetation, notably bracken and understary shrubs, are the most significant variables affecting orchid habitat suitability. These deserve a heavy weighting. Other factors that can influence suitability for orchids are animal diggings from non-native species including rabbits and feral chickens. The digging can damage orchid tubers.

Other features that could potentially impact on site condition for orchids can include soil type, mycorrhizae presence, and access to pollinating insects. The impact area and offset area are part of the same site and adjoining one another within the same portion of the vegetation community that has already been identified as critical habitat for these species. Soil type is the same. It is assumed with a high level of confidence that pollinators are present and can access all parts of the critical habitat. The mycorrhizae will exist where the orchids are growing being mutually dependent.

<u>Site context</u>. The proximity to habitat edge is relevant to habitat quality. Vegetation within this edge is more prone to disturbances from roadside activities and other edge effects. To avoid doubling up this should not include consequential impacts of weed infestation covered under site condition elsewhere, so it is given less weighting than site condition. Proximity to pavement edge is included recognizing that habitat < 13m may be affected by infiltration (NBES 2022).

<u>Stocking rates.</u> There can be no better way of confirming habitat quality for orchids than to have plants present. The very best habitat for the orchids support plants at high stocking rates. To attain the highest score for habitat quality plants would need to be present in good numbers.

Table 2: Habitat Quality Metric

Habitat Component	Measure	Scores	Maximum Score
	Invasive shrubby weeds	<5% - 2 5-25% - 1 >25% - 0	2
Site Condition	Invasive ground cover herbs and grassy weeds	<5% - 3 5-25% - 2 25-50%- 1 >50% - 0	3
	Native competition: bracken and tall shrubs	< 50% - 1 >50% - 0	1
	Feral animal digging	<25% - 1 >25% - 0	1
Site context	Proximity to earthworks	>13m - 1 <13m - 0	1
Stocking rates	Orchids in area	>1/10sqm - 2 <1 / 10sqm - i 0 - 0	2
Total maximum		.00	10

The Habitat Quality Score will also be applied to monitor the condition of the offset area over time.

To create a reliable and repeatable habitat quality score there will be multiple sampling points. The impact area is small and can be scored as single site. The offset area will be subdivided into 32 of $50 \text{ m} \times 50 \text{ m}$ grids (up to 0.25 ha if entirely within the offset area) (Figure 4).

Sampling will be taken at the centre of each grid using a $5 \, \text{m} \times 5 \, \text{m}$ quadrat. $32 \, \text{samples}$ represent $1.45 \, \%$ of the total area.

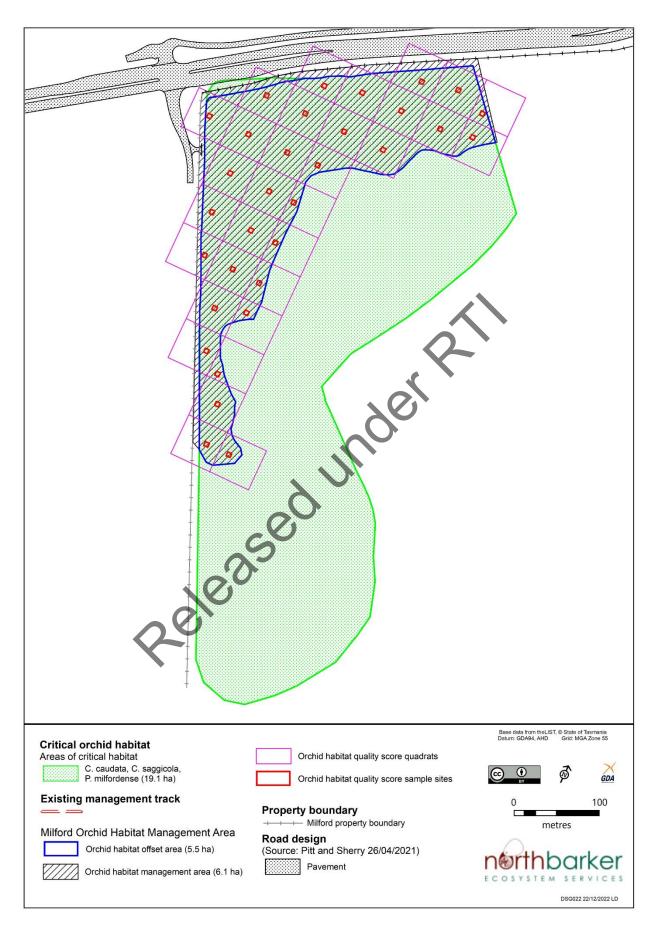


Figure 4: Orchid habitat quality sampling points

The following features require a score in the Offset Calculator:

Time over which loss is averted

The intention is for ongoing management subject to ongoing agreement with the landowner. 20 years is the maximum number allowed in the calculator.

Time until ecological benefit

The main management activity that affects habitat quality will be the removal and control of weed infestations. This has been put at three years for the completion of all primary weed management. Further ecological benefit will be achieved as follow up weed treatment is undertaken

Start Area (ha)

The Offset Area occupies 5.5 ha of critical orchid habitat.

Start Quality

The method for scoring this is discussed above under Habitat Quality. It will require further assessment of the impact and offset areas in line with the criteria provided in the Habitat Quality metric (Table 2).

Future Quality Score without offset

The habitat, even 50 m from the boundary edge, is being impacted by colonisation of weeds. The landowner has been successful at controlling woody weeds but is unlikely to have the resources to control the further spread of herbaceous weeds such as freesia and panic veldt grass which are more challenging but pernicious species that could degrade habitat suitability for orchids across the entire habitat area. The Habitat Quality in the offset management area is likely to worsen and so will be given a score of 0 under the criterion for Invasive ground cover herbs and grassy weeds.

Future Quality Score with offse

It is anticipated that the weed management will ensure the existing weed threat is reduced thus increasing the condition score above its current rating. The Habitat Quality in the offset management area is likely to improve and so will be given a score of 3 under the criterion for Invasive ground cover herbs and grassy weeds.

Risk of loss.

The Offset Guide states that risk of loss "describes the chance that the habitat on the proposed offset site will be completely lost (i.e. no longer hold any value for the protected matter of concern) over the foreseeable future." This will be given a score of 0 without offset. DCCEEW have advised that "risk of loss does not include loss that requires an assessment and offset under any legislation. As the offset area includes two critically endangered EPBC Act protected species any potential cause of loss would require assessment and offset under the EPBC Act."

Confidence in result

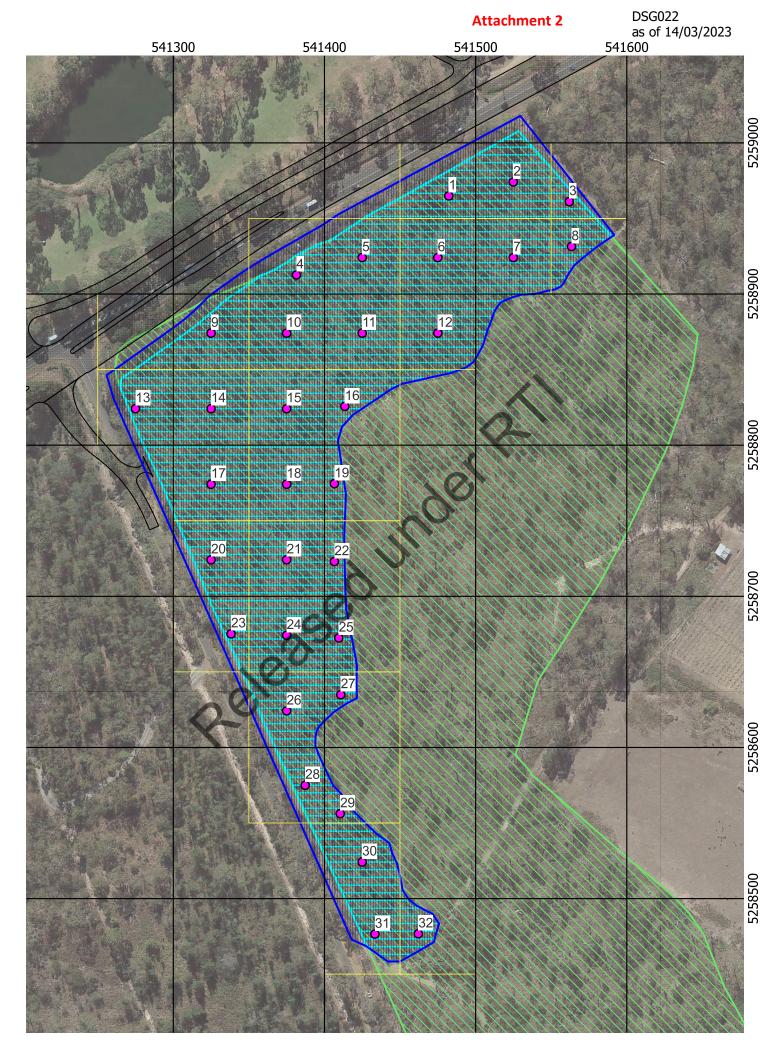
"This describes the level of certainty about the success of the proposed offset". Managing weeds is a tangible task with an achievable outcome. To achieve the benefit does not require total elimination weeds just control to prevent weeds adversely impacting on the orchids now and into the future. A confidence level of 75% is cautionary and conservative. The Orchid Management Plan will include clear commitments that prescribe weed

management works to tackle the herbaceous weeds and monitor other sources of competition.

% of Impact Offset

This needs to exceed the minimum of 90% direct offset requirement.





Orchid Habitat 50 m grid
Critical orchid habitat

From: To: Subject: Date: Attachments:	S 36 RE: TasWater Request for Additional Information, TWPA 2022/046for Council permit PDPLANPMTD-2021 017782 Monday, 20 February 2023 5:00:00 PM image001.png image002.ipg image002.ipg image003.png image004.ipg
—————————————————————————————————————	
Out of scope	
Thanks,	
	and Delivery Department of State Growth uce, Hobart TAS 7000 GPO Box 536, Hobart TAS 7001 8 36 ch.tas.gov.au
	a difference through INTEGRITY RESPECT EXCELLENCE
	deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian ne past, and present custodians of the Land.
Please note I do no	ot work Fridays.
To:	@pittsh.com.au> 20 February 2023 10:06 AM @stategrowth.tas.gov.au> sWater Request for Additional Information, TWPA 2022/046for Council permit 021 017782 . Taswater have advised tha tour watermain drawings are approved, Out of scope
Regards	
s 36	
Principal Engineer \$ 36 Hobart Office — Le	evel 1, Surrey House, 199 Macquarie Street

pittsh.com.au

PO Box 94 Hobart Tasmania 7001 | Phone \$ 36

From:
To:
S 36
Cc: ; S 36 ;

Subject: RE: Tasman Highway Upgrade - Airport Interchange to Midway Point Causeway [SEC=UNOFFICIAL]

Date: Wednesday, 26 April 2023 2:02:00 PM

Attachments: <u>image001.png</u>

⊣i**s 36**

Touching base to confirm the updated methodology will be issues to DSG by **COB Friday 28 April**.

As discussed, following the habitat assessment on 22-23 May can you please ensure the updated offset management plan, offset strategy and offset calculator is provided to the department by the end of the month (**Wednesday 31 May**). I hope 4 weeks' notice is sufficient to ensure resources are adequately allocated to this project to meet these deliverable dates. Please let me know, ahead of time, if these dates are not achievable.

Happy to discuss further.

Thanks,

Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

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In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From:

Sent: Tuesday, 18 April 2023 10:36 AM

To: \$ 36 @pittsh.com.au>

@stategrowth.tas.gov.au>; \$ 36

@northbarker.com.au>

Subject: FW: Tasman Highway Upgrade - Airport Interchange to Midway Point Causeway [SEC=UNOFFICIAL]

Hi **s 36**

Can s 36 you send through the updated habitat assessment methodology by the end of next week (**Friday 28 April**).

Thanks,

Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

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Please note I do not work Fridays.



To: Subject: Date: Attachments:	Compensatory Planting Area - UNDERSTORY AND MAINTENANCE Wednesday, 26 April 2023 2:38:20 PM S 39 Duplicate
Hi	
	nd two attachments re the original proposal for the compensatory planting and the now required
s 36	
Principal Engine	per
PO Box 94 Hobai	Level 1, Surrey House, 199 Macquarie Street rt Tasmania 7001 Phone s36
pittsh.com.au	
	r, 6 March 2023 10:35 AM
To: Subject: RE: C	@stategrowth.tas.gov.au> compensationary Planting Area
Good morning	
developed by . The into	ent is not just to replant with E.Viminalis but to re-create a forest system with a mix
maintenance (uding understorey. The maintenance plan \$36 prepared is based on of all the planted species and adherence to this in the early years will give better ults and lower future costs. \$36 has not addressed weeds and long grass at this
stage and will	attend to that in the coming weeks.
Regards	
s 36	
Principal Engine	per
s 36	
	Level 1, Surrey House, 199 Macquarie Street rt Tasmania 7001 Phone <mark>s 36</mark>
pittsh.com.au	
From:	@stategrowth.tas.gov.au>

From:

Sent: Monday, 6 March 2023 9:10 AM

To: \$ 36 @pittsh.com.au>

@stategrowth.tas.gov.au>

Subject: RE: Compensationary Planting Area

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi **s 36**

I assume this means that \$36 has visited site and addressed the weeds and long grass?

I'm not familiar with the species, if most of the Eucalyptus viminalis has survived and that is the species we are trying to save why is there a need to plant more trees? Are there multiple species of tree planted at this location?

is calling the compensationary planting are the pryoriana area. I'm not 100% sure, I'll email her to get it direct from the source.

Thanks,

Programming and Delivery | Department of State Growth

4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

s 36

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Please note I do not work Fridays.

From: \$ 36 @pittsh.com.au>

Sent: Friday, 3 March 2023 4:17 PM

To: @stategrowth.tas.gov.au>

Subject: RE: Compensationary Planting Area

Hi

has advised the following

There have been substantial losses of understory vegetation due to frosts followed by the plants then being under water. Most of the Eucalyptus viminalis have survived.

will provide a cost in the near future for replacement planting. He expects of the order of \$39. Please confirm your approval to conduct this work at your earliest convenience and confirm that Wildseed are on your list of suppliers and payment can be made to Wildseed in a timely fashion following completion of that remedial work.

The Eucalyptus viminalsi that has been planted came from seed collected from a single tree

opposite the airport runway. This thought in some quarters to be sub species pryoriana, however an others think it is Eucalyptus Viminalis sub species viminalis. Is this what wants to check via genetic testing?

I have a contact for the genetic testing and will follow up what is required for the testing, likely costs and timeframe. This will require further approval from 5 36 to enter Milford and collect plant material from the new trees.

will update the maintenance /managment plan to a 10 year one.

Regards

s 36

Principal Engineer

Hobart Office — Level 1, Surrey House, 199 Macquarie Street

pittsh.com.au

From: @stategrowth.tas.gov.au

Sent: Tuesday, 28 February 2023 9:01 AM

PO Box 94 Hobart Tasmania 7001 | Phone

To: \$ 36 @pittsh.com.aualyptus

Subject: Compensationary Planting Area

Out of Character Suspicious Attachment

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi **S 36**

Can you let me know when the planting area will be sprayed for weeds and then cut? I've attached photos I took on 23 Jan.

Can you please send through the 10 year management plan for the area.

has asked about genetic testing trees to minimise future cost of management. What would be involved if we were to do this? I believe her concern was around the trees no being the species/sub-species we were trying to save.

Thanks,

Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

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Please note I do not work Fridays.

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91 Weston Hill Rd. Sorell, Tas 7172 Australia.

Ph/fax (03) 62 652 651

e-mail: info@wildseedtasmania.com.au website: www.wildseedtasmania.com.au.

ABN 45 563 672 321

To: Pitt & Sherry

Attn: \$ 36

Re: Milford Planting

Date: 16/9/20

Dear § 36

The following is the scope of works with costings for the work as we discussed on site.

This methodology is predicated on the installation of vermin-proof fencing (by others) as discussed on-site. NB: any vermin excluding fencing should be stood off the existing NW & SW paddock fences by some distance (say 10m) to ensure possums are prevented entry via overhanging shrubbery. Sheep can be grazed in the resulting strips between fences as a means of maintenance. These strips currently show evidence of reasonably robust native understorey re-colonisation.

It is also our recommendation that the area be de-compacted (but minimally disturbed) via subsurface ripping using a chisel plough or similar (by others).

The following figures apply per hectare. Should the ultimate area be other than 1ha, a rate can be extrapolated from these figures. Any ultimate area below 0.75ha will require re-pricing. All prices are exclusive of GST.

The proposed planting is a massed planting of *Rhagodia candolleana* (Coastal Saltbush) in meandering rows approximately 10m wide alternating with access avenues approximately 2m wide planted with robust ground cover and understorey species. The *Rhagodia* rows to be over-planted with *Eucalyptus viminalis subsp viminalis* (White Gum) and *Eucalyptus viminalis subsp pryoriana* (Coastal Manna Gum) at 1/25m² (i.e. at 5m centres) along with an assortment of local shrub species at 1/16m² (i.e. at 4m centres). The layout is to be such that no straight lines are used either in planting lines or in bed design. The aim is to avoid any sense of a 'plantation'. All plants to be grown from locally sourced genetics.

Because browsing wildlife will be excluded during the establishment period, pasture species will pose a significant threat to a successful outcome. The *Rhagodia* (along with the access row ground covers) will effectively convert the site from pasture to (predominantly) native quite rapidly and should keep non-native vegetation to a minimum. Attention must be given at maintenance to eradicate troublesome herbaceous and woody weeds.

Site preparation (following de-compaction and fencing) will be limited to spot spraying of planting locations and/or weed outbreaks as required. Plants to be installed with water crystals and fertiliser tablets (1x10g tab/plant). No allowance has been made for mulch mats, securing pins, guards, or stakes.

Maintenance requirement is estimated as being 2 days by three personnel: twice annually for 5 years. Additional attendance to be on an as-required basis to attend to extra watering or unforeseen events. The following maintenance costs cover labour but not materials or consumables. \$39

s 39

Timing of works.

Seed collection and sowing need to be undertaken urgently (by early October). Vegetative propagation should be completed by end of October.

Site preparation works (e.g. fencing & de-compaction) should be finalised by April 2021.

Planting to begin from end of April (or when rain/soil conditions suit) through until early September 2021 at the latest.

Please contact me for any further detail.

Regards,

s 36

Proposed species

Shrubs.

Ground covers & understorey

Species	Common name	Species	Common name
Acacia mearnsii	Black Wattle	Carpobrotus rossii	Pigface
Acacia verticillata	Prickly Moses	Dianella brevicaulis	Short Stem Flax Lily
Allocasuarina littoralis	Black Bull Oak	Einardia nutans	Climbing Saltbush
Cassinia aculeata	Dolly Bush	Lomandra longifolia	Sagg
	Disjunct Bitter		
Daviesia sejugata	Pea	Poa poiformis	Coastal Tussock
Dodonaea viscosa	Native Hop	Rhagodia candolleana	Coastal Saltbush
Indigofera australis	Native Indigo	Tetragonia implexicoma	Bower Spinach
Solanum laciniatum	Kangaroo Apple		<u> </u>

From:
To:
Subject:
RE: HB19197 Planting Area Coordinates for Milford
Date:
Wednesday, 26 April 2023 6:43:23 AM
Attachments:
image001.png
HB19197-P402.pdf

Further to my earlier email this morning, discard that plan and use this one.

Regards

\$ 36

Principal Engineer
\$ 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone \$ 36

pittsh.com.au

From \$ Sent: Wednesday, 5 April 2023 12:08 PM

pittsh.com.au



From: To:

Subject: RE: Milford Comp. Planting

 Date:
 Wednesday, 26 April 2023 6:37:35 AM

 Attachments:
 RE Milford Comp. Planting.msg

RE Compensationary Planting Area.msg

Hi -

I just spoke with \$\frac{36}{2}\$, it's been too dry to do the maintenance work on Milford and he said he would update the maintenance plan to 10 years later this week.

I am not sure which "plan" you are referring to, but I've attached the email I sent you on 3 April which has the planting area and my doctored version of the maintenance plan.

Related to this do we have your approval to carry out the replanting (second attachment).

Regards

s 36

Principal Engineer

• 00

Hobart Office — Level 1, Surrey House, 199 Macquarie Street PO Box 94 Hobart Tasmania 7001 | Phone **\$ 36**

pittsh.com.au

From: @stategrowth.tas.gov.au>

Sent: Monday, 24 April 2023 11:59 AM

To: \$ 36 @pittsh.com.au>

Subject: RE: Milford Comp. Planting

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi **s 36**

Can you please send through the updated plan and the maintenance plan. I need these ASAP, the maintenance plan was requested last year.

Thanks,

Programming and Delivery | Department of State Growth

4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

www.stategrowth.tas.gov.au

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TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE

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Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: \$ 36 @pittsh.com.au>

Sent: Wednesday, 5 April 2023 7:25 AM

@stategrowth.tas.gov.au>

Subject: RE: Milford Comp. Planting

Hi

The planting area is shown in red with an area of 11,748 m2 – that is the surveyed area. I will get the other changes made.

Regards



Principal Engineer

\$ 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street PO Box 94 Hobart Tasmania 7001 | Phone § 36

pittsh.com.au

From: @stategrowth.tas.gov.au

Sent: Tuesday, 4 April 2023 5:35 PM

To: \$ 36 @pittsb.com.au>

Subject: RE: Milford Comp. Planting

Wide Distribution

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi **s 36**

Thanks, could you please update the mark up to show 1ha (10,000m2). The access I assume would be from the Tasman Highway, down the driveway and right at the dirt track down to the comp. planting area. The second driveway would be via the new driveway.

Thanks,

Programming and Delivery | Department of State Growth 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

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From: \$ 36 @pittsh.com.au>

Sent: Monday, 3 April 2023 7:56 PM

To: <u>@stategrowth.tas.gov.au</u>>

Subject: RE: Milford Comp. Planting

Hi

Attached is the drawing of the compensatory planting with existing and new accesses. Please advise the route we should take to get from these roads to the planting area. Also the new road is probably better shown as two more or less parallel lines (as for the existing)? I have also doctored the Wildseed proposal to include 10 year maintenance. That will get OCS started while we wait for the revised advice from Wildseed.

Regards

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street PO Box 94 Hobart Tasmania 7001 | Phone **3.36**

pittsh.com.au

From: @stategrowth.tas.gov.au>

Sent: Tuesday, 21 March 2023 5:43 PM

To: \$ 36 @pittsh.com.au>

Subject: Milford Comp. Planting

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi **s 36**

As discussed yesterday, I'm working with OCS for a lease over the comp. planting area on Milford for 10 years. Can you please provide a mark-up such as the one attached showing the planting area in red (1 Ha) and two right of accesses, from the Tasman Highway and from Pittwater Road (the new driveway to be constructed) in blue.

Can you let me know what the area is used for. I currently have:

Planting

- Weeding
- Grass cutting
- Watering plants/trees

Further, can you please send through the maintenance plan, I need this to accompany the lease.

Have Wildseed addressed the weeds and long grass discussed the planting area?

Thanks.

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www.stategrowth.tas.gov.au

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From: \$ 36

To:

Subject: RE: Milford C

Subject: RE: Milford Comp. Planting **Attachments:** HB19197-P402.pdf

s 39

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Regards



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Sent: Tuesday, 21 March 2023 5:43 PM

To: \$ 36 @pittsh.com.au>

Subject: Milford Comp. Planting

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WILDSEED TASMANIA

Attachment 1b

Suppliers of native plants and seed.

91 Weston Hill Rd. Sorell, Tas 7172 Australia. Ph/fax (03) 62 652 651

e-mail: info@wildseedtasmania.com.au website: www.wildseedtasmania.com.au.

ABN 45 563 672 321

To: Pitt & Sherry

Attn: s 36

Re: Milford Planting

Date: 30/03/2023

Dear § 36

The following is the scope of works with costings for the work as we discussed on site.

This methodology is predicated on the installation of vermin-proof fencing (by others) as discussed on-site. NB: any vermin excluding fencing should be stood off the existing NW & SW paddock fences by some distance (say 10m) to ensure possums are prevented entry via overhanging shrubbery. Sheep can be grazed in the resulting strips between fences as a means of maintenance. These strips currently show evidence of reasonably robust native understorey re-colonisation.

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Timing of works.

Seed collection and sowing need to be undertaken urgently (by early October). Vegetative propagation should be completed by end of October.

Site preparation works (e.g. fencing & de-compaction) should be finalised by April 2021.

Planting to begin from end of April (or when rain/soil conditions suit) through until early September 2021 at the latest.

Please contact me for any further detail.

Regards,

s 36

Proposed species

C	hr	h	
3	hr	uL	15.

Ground covers & understorey

Jili ubs.		Orbana covers & anacistorey	
Species	Common name	Species	Common name
Acacia mearnsii	Black Wattle	Carpobrotus rossii	Pigface
			Short Stem Flax
Acacia verticillata	Prickly Moses	Dianella brevicaulis	Lily
Allocasuarina littoralis	Black Bull Oak	Einardia nutans	Climbing Saltbush
Cassinia aculeata	Dolly Bush	Lomandra longifolia	Sagg
Davidada askumata	Disjunct Bitter	Do a malfamala	Constal Toursel
Daviesia sejugata	Pea	Poa poiformis	Coastal Tussock
Dodonaea viscosa	Native Hop	Rhagodia candolleana	Coastal Saltbush
Indigofera australis	Native Indigo	Tetragonia implexicoma	Bower Spinach
Solanum laciniatum	Kangaroo Apple		
25	3/6/3/2	3. Under R	

From: To: Subject: Date: RE: SETS Airport to Causeway - DA Monday, 24 April 2023 8:35:52 AM image002.png



You are right its September, Golf Course is March 2024

PDPLANPMTD-2021/017782 8 September 2021 Pitt & Sherry Email: pittsh.com.au Dear PDPLANPMTD-2021/017782 - Tasman Highway Upgrades including Pittwater Road Intersection Upgrades - The Tasman Highway, Pittwater Road & Various Adjacent Lots between Hobart International Airport & the Midway Point Causeway, Cambridge I refer to vour application for the above proposal which ha Principal Engineer Hobart Office — Level 1, Surrey House, 199 Macquarie Street PO Box 94 Hobart Tasmania 7001 | Phone pittsh.com.au From: @stategrowth.tas.gov.au> **Sent:** Monday, 24 April 2023 8:24 AM @pittsh.com.au> Subject: RE: SETS Airport to Causeway - DA CAUTION: This email originated from outside of the organization. Do not click ents unless you recognize the sender and know the content is safe. Thank you. Is this for the golf club dam or the highway? I th highway was September this year? 36, Hobart TAS 7001 Courage to make a difference through TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land. Please note I do not work Fridays.

Sent: Thursday, 20 April 2023 7:23 PM

To: @stategrowth.tas.gov.au>
Subject: RE: SETS Airport to Causeway - DA

@pittsh.com.au>

Hi

From

The date of the Planning Permit is 1 March 2022, so we have until 1 March 2024 before the permit lapses and then have a further 6 months to submit an extension of time. Refer below.

The following advice is also provided:

This Permit will lapse after 2 years from the date on which it is granted unless the a. development / use has been substantially commenced. Upon request, under Section 53(5A) of the Land Use Planning and Approvals Act 1993 Council may grant an extension of time for a further 2 years. A further 2 years may be granted upon request under Section 53(5B) of the Land Use Planning and Approvals Act 1993. Any such requests must be made in writing and within 6 months of the day on which the permit has lapsed.

Regards

Principal Engineer

Hobart Office — Level 1, Surrey House, 199 Macquarie Street PO Box 94 Hobart Tasmania 7001

pittsh.com.au

From: @stategrowth.tas.gov.au>

Sent: Thursday, 20 April 2023 5:18 PM @pittsh.com.au> Subject: SETS Airport to Causeway - DA

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Can you please advise the timelines for having the DA for the road extended? I believe the DA expir ber, when do we need to apply for an extension and how long can we extend it for?

Thanks,

Department of State Growth

4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

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In recognition of the deep history and culture of this island, I ack

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