# **Planning Proposal**

# 159–167 Darley Street West, Mona Vale Submissions Report

February 2024



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### Introduction

Solve Property Group (Solve) has been retained by Intrec Management Pty Ltd (Intrec) and the applicant Magnolia Views Property Pty Ltd (MVP), to prepare a submissions report in relation to the Planning Proposal (PP) to rezone properties at 159–167 Darley Street West, Mona Vale. The PP seeks to exclude the land from the R2 Low Density Residential zone under *Pittwater Local Environmental Plan 2014* (PLEP 2014) and include it in the R3 Medium Density Residential zone to facilitate the redevelopment of these sites for medium density housing, consistent with the remainder of Darley Street West. Medium density housing (e.g. residential flat buildings and multi dwelling housing) is not permissible within the current R2 land use zone. In addition, the PP seeks to amend clause 4.5A of the PLEP which restricts the dwelling density (i.e. the number of dwellings) that can be developed on the site to improve diversity, affordability and housing mix options.

The PP was submitted to Northern Beaches Council (Council), as the "planning authority", requesting amendments to PLEP 2014 under Division 3.4 of the *Environmental Planning and Assessment Act, 1979* (EP&A Act) in July 2021 after 2 years of pre-lodgements discussions. Council determined to not support the PP at its meeting on 26 October 2021. Following a proponent initiated rezoning review, the Sydney North Planning Panel (Panel) requested further information from the proponent in relation to the provision of affordable housing on site at its meeting on 13 April 2022. The panel again met on 7 September 2022 to consider the additional affordable housing contributions proposed by the applicant and submissions from Council.

The panel determined on 13 September 2022 that the PP should be submitted for gateway determination. The panel provided Council with the option of being the Planning Proposal Authority (PPA). Despite electing to be the PPA on the final day of the relevant period (25 October 2022) and being required to submit the PP for gateway determination prior to 6 December 2022, Council did not progress the PP until it was submitted to Council for consideration at its meeting on 18 April 2023. This was more than 4 months after the PP was required to be submitted to DPE for gateway review. Even though there were significant omissions in the Council report, Councillors voted against the PP, thereby creating a statutory impediment to the PP progressing.

As a result of Council's failure to progress the PP, the panel finally accepted its role as PPA on 14 August 2023. The panel also determined the following:

The Panel has reviewed the revised planning proposal and determined that the planning proposal <u>should be submitted to the Department of Planning and Environment for</u> <u>Gateway</u> assessment on the condition that, as a part of the Gateway determination the planning proposal be updated to:

- include an affordable housing contribution rate of 5% which is to be mapped and included in a new Affordable Housing clause in the Pittwater LEP 2014;
- address the most recent version of Ministerial direction 4.1 Flooding;
- address the most recent versions of all Ministerial directions and State Environmental Planning Policies; and
- reflect the current status of the Mona Vale Place Plan Review.

A revised PP responding to the requirements of the panel was prepared in accordance with the Department of Planning and Environment's (DPE) planning proposal guidelines, *Local Environmental Plan Making Guideline (August 2023)*<sup>1</sup> and was submitted to DPE (for the panel) on 27 October 2023.

The revised PP included an updated Addendum Cover Letter from AECOM addressing the revised ministerial directions for flooding and stormwater management and provided an additional attachment recognising feasibility testing on the affordable housing contributions (consistent with the North District Plan).

The PP was publicly exhibited for 28 days from Friday 3 November 2023 until 1 December 2023. Forty-one (41) submissions were received including government agencies and a submission on behalf of the proponent. This report addresses the matters raised in the submissions and provides recommendations for finalising the proposed rezoning.



<sup>&</sup>lt;sup>1</sup> Local Environmental Plan Making Guideline – August 2023 (nsw.gov.au)

## **Section 1: Community Engagement**

#### Consultation

Consultation on the PP was undertaken for 28 days between 3 November 2023 and 1 December 2023. A total of forty-one (41) submissions were received as follows:

- Thirty-Three (33) submissions from members of the public including a mix of proforma letters
- Six (6) submissions from state government agencies
- One (1) submission from Council
- One (1) submission from the proponent

Solve has completed a full review of all submissions on behalf of the proponent. In all, there were 25 themes raised across the submissions. The key themes addressed in the submissions include:

- Twenty-four (24) respondents (including Council) raising issues relating to the increase in traffic and congestion.
- Eighteen (18) respondents (including SES, DPE and Council) raising issues relating to
  potential flooding risk and stormwater management arising from the current PP
  including additional uncontrolled/redirected stormwater run-off from the development.
- Fourteen (14) respondents (including Council) raising issues relating to the lack of strategic alignment with broader strategic directions/guidelines and/or Councils previous decisions on the PP.
- Ten (10) respondents raising issues relating to the size and scale of the proposed development including suggested inconsistency with the existing streetscape and Councils current density limits.
- Ten (10) respondents raising issues relating to the general loss of on-street parking availability.

A detailed assessment and responses are provided in sections 1.2–1.4 below. Solve also notes that several of the submissions were generally in support of the PP but with certain elements requiring further investigation and assessment upon progression of the PP (i.e. at development application stage).



#### **Detailed Submission Analysis**

A detailed breakdown of the submissions and the proponent's response is detailed in Table 1 below.

#### **Agency Submissions**

Submissions were received from DPE, the former Greater Cities Commission (GCC), the NSW State Emergency Service (SES), Transport for NSW (TfNSW), Sydney Water and Ausgrid. A submission was also made by Council.

A summary of the matters raised by agencies are detailed below:

- DPE requested amendments to the stormwater drainage strategy and biodiversity considerations on the site (these are addressed in section 2 below).
- GCC advised that the proposal is generally consistent with the objectives identified in the Greater Sydney Regional Plan, North District Plan and Affordable Housing.
- SES recommended undertaking sensitivity modelling for the case of localised mounding failure in diverting flow from the neighbouring property and recommend that the driveway entry to the under-croft and garage is above the PMF and further consideration of the impact of flooding on the risk to life and property (these are addressed in section 2 below).
- TfNSW notes that future access to the site would be achieved via the local road network and acknowledges that the potential traffic impacts of the proposal will likely be minor.
- Sydney Water advised that water and wastewater is available to service the site.
- Ausgrid has no comments to make on the PP.

None of the matters raised in the agency submissions would preclude the land being rezoned.

Council's submission is consistent with previous recommendations by Council including:

- No draft LEP amendments provided
- Insufficient Justification



- No strategic merit and inconsistent with key aspects of the Greater Sydney Region Plan, North District Plan, Northern Beaches Local Strategic Planning Statement – Towards 2040 and Northern Beaches Local Housing Strategy.
- Flooding The proposal is inconsistent with Local Planning Direction 4.1 Flooding
- Affordable Housing The Planning Proposal incorrectly implies that the 5% contribution rate for affordable housing is for new residential floorspace, not for the entire site (total gross floor area of the development) as required by the gateway condition. The Planning Proposal also incorrectly implies the final affordable housing contribution rate should be subject to viability testing. Again, this is inconsistent with the Gateway conditions.
- Precedent Consideration of rezoning of the subject site, outside of the Mona Vale
   Place Planning process has the risk of setting a precedent for adjoining landowners, or
   other landowners of R2 zoned land to consider rezoning under the same premises.
- Traffic concerns with potential impact on operation of the signalised intersection of Darley Street West and Pittwater Road.
- Biodiversity the preliminary ecology assessment has concluded that 0.13ha of native vegetation is to be impacted. Council recommends, that a Flora & Fauna Assessment is submitted as part of a future DA, including more detailed site survey, assessment and reporting.

These matters are addressed in detail in Table 1 below. It should be noted that each of the matters raised above have been addressed in detail through the PP and subsequent submissions. It should be specifically noted that the GCC does not agree with Council's submissions regarding consistency with the strategic merit, including compliance with the Greater Sydney Region Plan and North District Plan.

It should also be noted that Council's Affordable Housing submission is inconsistent with the North District Plan in relation to applying to new residential floorspace only and explicit reference to viability testing. It is also inconsistent with the advice of Council's own consultant and the approach previously applied by Council for 1294–1300 Pittwater Road and 2–4 Albert Street, North Narrabeen.

#### **Proponent Submission**

The proponent also made a submission in relation to the PP. The proponent's submission supported the proposed rezoning and amendment to clause 4.5A of the Pittwater LEP 2014.



The proponent also supported in part the proposal to introduce an affordable housing clause in the Pittwater LEP 2014 but sought to ensure that the final affordable housing contribution is subject to a viability test, consistent with the Greater Sydney Region Plan and North District Plan.

The proponent does not object to making an affordable housing contribution, notwithstanding its commitment to housing diversity through the provision of a range of unit sizes (not permitted through the Pittwater LEP 2014), however has sought to ensure that the contribution is fair, equitable and viable having regard to:

- The method used to determine the contribution, consistent with other sites
- The method of inclusion in the Pittwater LEP 2014

The proponent's submission is that the viability test cannot reasonably be determined at the rezoning stage given the absolute certainty in changes to project viability prior to the issue of a development consent. The proponent seeks a fair approach to project viability which will be determined as part of the application for development consent. This approach is consistent with Council's own policies. The inclusion of a fixed rate (5%) in the Pittwater LEP 2014 does not do this and introduces the very real prospect that another amendment of the PLEP 2014 will be necessary if the determined rate is not viable.



Table 1–Detailed Submission Analysis

Theme	Frequency	Submissions Summary	Response
Traffic and congestion	24	The PP will directly result in an increase in	Disagree - The proponent included a
		traffic flow and congestion for cars	Traffic Impact Assessment in the PP by ptc.
		entering and exiting Darley Street West.	ptc determined traffic movements in the
			area using historical survey data in addition
		The latest Traffic Impact Assessment is	to annual traffic counters from the TfNSW
		based on a pre-Covid survey, and the	Traffic Volume Viewer. This was
		submissions have referenced existing	supplemented by surveys conducted on
		congestion and safety concerns with	Thursday 22 October 2021.
		respect to the 'dangerous' traffic light at	
		the end of Darley Street West which will be	The assessment of the Darley Street West
		exacerbated by additional residents.	Intersection with Pittwater Road was found
			to have a good Level of Service B (LOS B)
		The submissions have noted significant	for both morning and evening peaks. The
		queuing/backlogs and delays for cars	SIDRA analysis found that LOS B remains at
		exiting Darley Street West which is a factor	a good LOS B with spare capacity in both
		of existing difficulties in attempting to turn	the morning and afternoon peaks with a
		right onto Pittwater Road from Darley	negligible increase in the average delay
		Street West, which requires drivers to	(less than 1 second).
		cautiously scan for oncoming traffic	
		(resulting in delayed traffic flow).	
			Traffic and congestion24The PP will directly result in an increase in traffic flow and congestion for cars entering and exiting Darley Street West.The latest Traffic Impact Assessment is based on a pre-Covid survey, and the submissions have referenced existing congestion and safety concerns with respect to the 'dangerous' traffic light at the end of Darley Street West which will be exacerbated by additional residents.The submissions have noted significant queuing/backlogs and delays for cars exiting Darley Street West which is a factor of existing difficulties in attempting to turn right onto Pittwater Road from Darley Street West, which requires drivers to cautiously scan for oncoming traffic

			The submissions have also mode note of	Should issues arise in the future (which is
			safety concerns relating to congestion and	unlikely given the extent of developable
			traffic build-up during emergency	land in Darley Street West), minor
			evacuations such as bushfires.	adjustments to the operations of the
				intersection (as suggested in the
			Several submissions stated that the impact	submission) could be made by Council to
			of the proposal (and existing issues) could	facilitate a right turn arrow.
			be mitigated through improvements to the	
			existing traffic lights, namely installation of	TfNSW has also reviewed the PP and notes
			a right turn arrow onto Pittwater Road.	that potential traffic impacts on the local
				road network would be minor.
2.	Flooding	18	The subject site is designated as medium	Agree in part - The proponent has retained
			and low flood risk and overland flow path.	Lyall & Associates to undertake a peer
			It is proximately located to the existing	review of the AECOM Stormwater
			creek bordering Bayview Golf Course.	Management Strategy, relevant policies
				and submissions made in relation to the PP.
			The current PP will directly impact potential	
			flooding risk and stormwater management.	The peer review found that the PP is
			The operators of Bayview Golf Course have	generally consistent with the requirements
			made significant contributions to drainage	of Direction 4.1 – Flooding, and where it is
			and irrigation of the creek over recent	considered to be inconsistent, the
			years. The PP could potentially undermine	inconsistencies are of minor significance.

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	the work completed to date through loss of	Table 1 of the peer review (Attachment B)
	natural land and additional uncontrolled	addresses compliance of the PP against
	/redirected stormwater run-off from the	the requirements of Direction 4.1-
	development site because of additional	Flooding.
	hard surfaces.	
		The peer review recommends that the PP
	Several submissions made note that	be approved subject to the future
	additional water run-cff could exacerbate	development application making a number
	the unpleasant smells emanating from the	of adjustments to the flooding and
	sewage tank at Darley Street (existing	stormwater drainage strategy.
	issue).	
		An assessment of the PP against the
	The submissions also suggest that the	flooding and stormwater drainage related
	proposal is inconsistent with Local Planning	submissions is included in Table 2 of the
	Direction 4.1 – Flooding in that:	peer review (Attachment B). Where the
	o It permits additional development in	peer review agrees with the submissions,
	floodway areas.	Lyall and Associates have included an
	o It substantially increases by over 300%	action in the recommendations.
	the dwelling density in the Flood	
	Planning Area	The proponent accepts the
	o It has not been demonstrated that the	recommendations noting that the

		tlood on 155 Darley Street can be	stormwater drainage situation in the area
		mitigated.	and will directly address the matters raised
			by residents in Kunari Place.
		A submission recommends undertaking	
		sensitivity modelling for the case of	A revised flooding and stormwater
		localised mounding failure in diverting flow	management plan addressing these
		from neighbouring property and	requirements will be submitted to Council
		recommends discussing with the DPE EHG	with the development application for the
		regarding potential impacts on	site.
		neighbouring properties.	
		This submission recommends that the	
		driveway entry to the under-croft parking	
		and garages is situated above the PMF to	
		reduce risk to life and property. It is	
		recommended to seek further information	
		to understand the risk to life and property,	
		including the maximum length of time for	
		inundation or isolation of the site.	
Strategic alignment	14	The current planning proposal does not	<b>Disagree</b> - For the reasons detailed in the
		align with the broader strategic	PP, the proposal is very clearly consistent
			with the intent of the Greater Sydney
	Strategic alignment	Strategic alignment 14	A submission recommends undertaking sensitivity modelling for the case of localised mounding failure in diverting flow from neighbouring property and recommends discussing with the DPE EHG regarding potential impacts on neighbouring properties.This submission recommends that the driveway entry to the under-croft parking and garages is situated above the PMF to reduce risk to life and property. It is recommended to seek further information to understand the risk to life and property, including the maximum length of time for inundation or isolation of the site.Strategic alignment14The current planning proposal does not

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		directions/guidelines and/or Councils	Region Plan and North District Plan. The
		previous decisions on the proposal.	GCC have confirmed this.
		The current planning proposal has been	The final draft Northern Beaches Local
		rejected by Northern Beaches Council on	Housing Strategy (LHS), dated April 2021,
		two occasions.	was endorsed by Council and approved by
			DPE on 16 December 2021 . Whilst
		The current planning proposal and its	approved, it should be noted that the
		referral to and intervention by the NSW DPE	former <u>DPE applied 13 conditions to the</u>
		for a Gateway determination undermines	approval of the LHS which required
		the strategic planning undertaken by	significant amendments to the delivery
		Council and their communication and	framework to meet the requirements of the
		collaborative work with the local	North District Plan. To date, Council have
		community to gain general support for their	not yet submitted a revised LHS even
		long-term plan.	though an amended LHS was required to
			be re-submitted to the former DPE.
		The current planning proposal does not	
		align with various wider strategic planning	The PP provides a full overview of the
		guidelines and objectives including (but not	consistency of the proposal with state
		limited to) key aspects of the Greater	strategic planning directions for the area.
		Sydney Regional Plan, North District Plan,	
		Northern Beaches LSPS, Northern Beaches	

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			LHS and Councils Affordable Housing	
			Policy.	
4.	Streetscape character and	10	The current PP is out of character with the	<b>Disagree -</b> The proposed zoning is
	density levels		rest of the streetscape.	consistent with the remainder of Darley
				Street West and the proposed development
			The size and scale of the current PP is	detailed in the PP is entirely consistent with
			excessive and has no regard to	existing built form in the area.
			sympathetic development/land uses	
			consistent with existing residences that	Density limits in the Pittwater LEP 2014 have
			abide by Council density limits (single	significantly contributed to a lack of
			dwellings and townhouse complexes only).	housing diversity and unaffordability in the
			Overdevelopment of the site will result in a	area.
			loss of ambience for the wider	
			neighbourhood.	
5.	Parking	10	The current PP will result in a general loss of	Disagree - The proposed development
			on-street parking availability.	included in the PP provides car parking
				consistent with Council's DCP. This will be
			The Traffic Impact Assessment indicated a	further demonstrated during the
			'negligible impact' – an unrealistic	subsequent development application
			assumption given the amount of parking	process.
			spaces proposed.	

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	density developments		potential future high density developments	determined on their individual merits. In the
6.	Setting precedence for higher	8	The current PP may set precedence for	<b>Disagree</b> – Rezoning applications are
				years after the PWG was formed).
				made available in early 2024 (more than 2
				website <sup>2</sup> , findings of this review will be
				Vale Place Plan, and based on Council's
				parking in the area as part of the Mona
			exacerbated by the proposal.	Council is currently assessing traffic and
			exit driveway – a factor that will be further	are regulated by Council. It is noted that
			immediately adjacent to either side of their	Existing on-street parking arrangements
			due to the presence of parked vehicles	
			garages/driveways onto Darley Street West	a result of the proposed development.
			difficulties in safely exiting their	<u>no</u> change in the level of service (LOS B) as
			Several submissions noted existing	The modelling has determined that there is
				accepted levels of service for intersections.
			availability.	determined based on pre-determined and
			further pressure on current parking	based on SIDRA modelling and has been
			by the proposal) into the area, will place	in peak hours. This determination was
			in the average number of visitors (induced	relates to the operation of the intersection
			per dwelling, as well as a general increase	Pittwater Road and Darley Street West
			The unrealistic assumption of 0.65 vehicles	The negligible impact on the intersection of

<sup>2</sup> https://yoursay.northernbeaches.nsw.gov.au/my-place-mona-vale

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			in land currently zoned R2 and increase the	case of Darley Street West, the remainder
			possibility/likelihood of existing dwellings	of the street is already zoned R3 and fully
			on the street to be rezoned to a similar	developed with units, so the proposal does
			type of building on the same basis.	not set a precedent for the area.
			Overall, the removal of maximum dwelling	The panel has agreed with the proponent's
			density for the site and decision to rezone	representations regarding strategic
			R2 to R3 (without valid reasons to change	alignment of the proposal with the Greater
			the current zoning) will potentially create	Sydney Region Plan and North District Plan.
			leverage for future developments that	
			would have no height restrictions	No changes in the maximum permissible
				building height is proposed.
7.	Affordable housing	7	The current PP lacks merit with respect to	Disagree - The proposal seeks to deliver
7.	Affordable housing	7	The current PP lacks merit with respect to affordable housing being delivered on site	<b>Disagree</b> - The proposal seeks to deliver affordable housing through housing
7.	Affordable housing	7		
7.	Affordable housing	7	affordable housing being delivered on site	affordable housing through housing
7.	Affordable housing	7	affordable housing being delivered on site as it is unlikely to be utilized/attainable	affordable housing through housing diversity; an approach which is not currently
7.	Affordable housing	7	affordable housing being delivered on site as it is unlikely to be utilized/attainable given current house/unit prices within the	affordable housing through housing diversity; an approach which is not currently permitted under the Pittwater LEP 2014.
7.	Affordable housing	7	affordable housing being delivered on site as it is unlikely to be utilized/attainable given current house/unit prices within the	affordable housing through housing diversity; an approach which is not currently permitted under the Pittwater LEP 2014. The controls in the Pittwater LEP 2014 have
7.	Affordable housing	7	affordable housing being delivered on site as it is unlikely to be utilized/attainable given current house/unit prices within the area.	affordable housing through housing diversity; an approach which is not currently permitted under the Pittwater LEP 2014. The controls in the Pittwater LEP 2014 have exacerbated the lack of affordable housing
7.	Affordable housing	7	affordable housing being delivered on site as it is unlikely to be utilized/attainable given current house/unit prices within the area. The original proposal indicated there had	affordable housing through housing diversity; an approach which is not currently permitted under the Pittwater LEP 2014. The controls in the Pittwater LEP 2014 have exacerbated the lack of affordable housing in the area through the provision of large

	the investment value (\$1,122,627). At the	In addition, the proponent has cgreed to
	pre-Gateway briefing on 14 August 2023	make a financial contribution towards
	the Sydney North Planning Panel	affordable housing. The PP recognises the
	determined that this be increased to 5%	panel decision, but it should be noted that
	and required through a new affordable	the Greater Sydney Region Plan and North
	housing clause in the LEP. It is of concern	District Plan specify that affordable
	that the proponent has raised the issue of	housing contributions should be as follows:
	viability testing the contribution. The 5%	
	was seen as a compromise of the external	"affordable rental housing targets that
	assessments undertaken and any reduction	are <u>generally</u> in the range of 5-10 per
	in the contribution will have a deleterious	cent of <u>new</u> residential floor space are
	impact on Councils planning for affordable	<u>subject to viability</u> " page 45, North
	housing.	District Plan
	The current PP incorrectly implies that the	The PP (as currently drafted) does not
	The current PP incorrectly implies that the 5% contribution rate for affordable housing	The PP (as currently drafted) does not recognise the changing nature of viability,
	5% contribution rate for affordable housing	recognise the changing nature of viability,
	5% contribution rate for affordable housing is for new residential floorspace, not for the	recognise the changing nature of viability, nor the existing residential floor space on
	5% contribution rate for affordable housing is for new residential floorspace, not for the entire site (total gross floor area of the	recognise the changing nature of viability, nor the existing residential floor space on the property, notwithstanding the advice of
	5% contribution rate for affordable housing is for new residential floorspace, not for the entire site (total gross floor area of the development) as required by the gateway	recognise the changing nature of viability, nor the existing residential floor space on the property, notwithstanding the advice of Council's own consultant and previous
	5% contribution rate for affordable housing is for new residential floorspace, not for the entire site (total gross floor area of the development) as required by the gateway condition. The PP also incorrectly implies	recognise the changing nature of viability, nor the existing residential floor space on the property, notwithstanding the advice of Council's own consultant and previous

	Again, this is inconsistent with the Gatev	vay Noting these inconsistencies, the
	conditions.	affordable housing contribution should be
		generally in the range of 5-10% of <u>new</u>
	The development is unlikely to attract ke	y residential floor space and <u>subject to</u>
	workers based on current median prices	of <u>viability</u> . The PP as currently drafted does
	units in the area.	<u>not</u> reflect this requirement.
		For the extensive reasons detailed in the PP
		and previous submissions, project viability
		cannot be determined at the rezoning
		stage, given the passage of time that will
		follow between the land being rezoned and
		the DA being lodged and determined.
		Given the need to determine viability at the
		development application stage, the
		imposition of a "fixed" affordable housing
		contribution in the PLEP 2014 mapping is
		inconsistent with the Greater Sydney
		Region Plan and North District Plan.



				Solve notes that the approach adopted by
				Penrith City Council in the Penrith LEP 2010 <sup>3</sup>
				is appropriate for use in the FLEP 2014.
				The Penrith approach would result in the
				site being included in an Affordable Rental
				Housing Contribution Area with the method
				of determining the contribution (5% subject
				to viability) being determined at the DA
				stage. Applying this approach will avoid
				the need for an amendment to the PLEP
				2014 should the nominated rate not be
				viable at the time of the future
				development application.
				Further detail on this proposed approach is
				detailed in section 2 below.
8.	Walkability	6	The PP was incorrectly awarded merit as	<b>Disagree</b> – The subject site is in close
			'very walkable'. The subject site is located	proximity to the Mona Vale shops and local
			400 meters from Mona Vale shops and is	bus stops. Indeed, the closest bus stop is

<sup>3</sup> Layout (windows.net)

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from the site on he site is within easy nore than 3,500 jobs in byment area and town
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umberland Ecology and
cological Assessments
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mature trees, tree canopy and large gum	(PEA) (Attachment A) has found that the
trees.	site contains 0.19 ha of degraded Pittwater
	Spotted Gum Forest, which was assigned
It is unclear how the endangered	to plant community type (PCT) 1214. This
vegetation on the site which is proposed	PCT has since been decommissioned and
for retention will be managed and	replaced with PCT 3234. This PCT was also
protected in the future. The planning	found to be consistent with the Pittwater
proposal should identify methods by which	and Wagstaffe Spotted Gum Forest in the
to actively manage and conserve native	Sydney Basin Bioregion (PWSGF)
vegetation across the site to ensure the	threatened ecological community (TEC),
security and protection of the retained	listed as endangered under the Eiodiversity
ECC, threatened species and threatened	Conservation Act 2016.
species habitat.	
	The assessment by Cumberland Ecology
	found that the PWSGF within the subject
	site is highly degraded and offers little
	habitat to native flora and fauna, largely
	comprising scattered characteristic trees of
	the community of varying age and
	condition above a historically cleared and
	exotic dominated understorey.



The remainder of the subject site is
comprised of Planted Native Vegetation
(0.04 ha), Exotic Vegetation (0.17
ha), Exotic Dominated Grassland (0.05 ha)
and Cleared Land (0.17 ha).
The likely future development is anticipated
to result in impacts to a 0.09 ha of PCT
1214, 0.04 ha of Planted Native Vegetation
0.11 ha of Exotic Vegetation and 0.04 ha o
Exotic Dominated Grassland.
A Test of Significance has been prepared
for the PWSGF which indicates that a
significant impact is unlikely to occur based
on the indicative footprint of the likely
future development. The PEA indicates that
issues relating to threatened species and
threatened ecological communities are
manageable and not significant. The
impacts of a future DA and the applicable



				biodiversity assessment, avoidance measures or mitigation measures will need to be re-evaluated at the development application stage of the project.
10.	Transport accessibility	5	The proposed development does not benefit from good access to	<b>Disagree</b> – the subject site is within approximately 400m of the nearest bus
			Ţ	
			active/frequent public transport networks.	stop and is within easy walking/cycling
				distance to more than 3,500 jobs in the
			All existing bus services within the 800m	Mona Vale employment area and town
			radius (walking distance) are little	centre (600m).
			used/poorly patronized with most bus	
			services accessed through the B Line and	The 156 bus service on Pittwater Road
			199 (outside of the 800m radius) such as on	(400m from the site) connects with the B-
			Barrenjoey Road (>1km).	Line bus service on Barrenjoey Road, and
				the B-Line bus service is only 938m (15 min
			The sites' location on a steep hill makes the	walk) from the subject site.
			walk to the B1 bus stop untenable for many.	
			The overall result will be further	
			overcrowding of car parking.	

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11.	Infrastructure capacity	4	The local area generally lacks the	<b>Disagree</b> – The subject site is within
			infrastructure capacity to support	proximity to excellent services, amenities
			additional dwellings/residents.	and jobs in the Mona Vale area.
			There is little justification for development	Sydney Water has confirmed that water
			without improvements to road infrastructure	and wastewater is available to service the
			(namely Mona Vale Road with planned	site. Ausgrid has no objection to the
			infrastructure improvements not expected	proposal.
			to proceed) as well as water supply,	
			sewage, transport systems, public	
			amenities, etc.	
12.	Construction period impact	4	The current PP will generate impediments	<b>Note</b> – Future redevelopment of the site will
			during the construction period with specific	be subject to development consent.
			reference to impacts to traffic flow and	Matters regarding traffic, hours of
			parking availability during the 2-year	construction and impact on local residents
			construction period (i.e. construction	will be addressed during this phase.
			vehicles).	
			This is in note of existing parking issues	
			including difficulties in exiting driveways.	

13.	Loss of privacy	3	The presence of several heavy construction vehicles will create accident potential and impact the safety of residents. Inadequate details of any privacy screening	Note - Future redevelopment of the site will
			between the development and existing properties are provided in the planning proposal.	be subject to development consent. The proposed development will need to demonstrate compliance with Council's DCP which specifically addresses privacy in section C1.5 of the Pittwater 21 DCP.
14.	Acid Sulphate Soils	2	The land pertaining to the subject site is considered 'unhealthy building land'. There is concern for excavation leading to disruption to water course and unsettling Acid Sulphate Soils.	<b>Disagree</b> - Part of the site (i.e. mainly the properties identified as 163-165 and 167 Darley Street West) are identified as Acid Sulfate Soils Class 3 and the remaining part of the site is identified as Class 5. Clause 7.1 of the PLEP 2014 is therefore applicable to works proposed more than 1m below the natural ground level surface. PLEP 2014 addresses the requirements of this Ministerial Direction. Notwithstanding the above, a PASSA was undertaken and prepared by Geotechnique Pty Ltd. The PASSA recommends an acid

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				sulfate soil management plan to be prepared for development that involves works more than 1m below natural ground level. This will be completed with the application for development consent.
15.	Locational merit of proximity to Bayview Golf Couse	2	The development attached merit of being proximate to Bayview Golf Course is incorrectly awarded as it is a private golf course and is only likely to attract the most avid golfers.	<b>Disagree</b> he site is proximate to a range of local amenities including the Bayview Golf Course. Its status as private or public doesn't reduce its overall amenity. It should be further noted that Bayview Golf Club is not restricted to members only and welcomes social play every day <sup>4</sup> .
16.	Impact to quality and value of local area	2	Site cverdevelopment and rezoning to R3 will result in the general degradation of the quality and value of the local area.	<b>Disagree</b> – The remainder of Darley Street West is all zoned R3 – Medium Density Residential.
17.	Underground parking	1	Potential for damage caused by properties with underground parking (i.e., flooding).	<b>Note</b> – The proponent will update flood modelling as part of the development application ensuring that all of the matters in item 2 above are addressed.

<sup>&</sup>lt;sup>4</sup> <u>https://www.bayviewgolfclub.com.au/play-golf/book-a-tee-time/</u>



<sup>159 – 167</sup> Darley Street West, Mona Vale Submissions Report

10		1		
18.	Consideration of additional	1	One submission (who in support of the	<b>Agree –</b> This is a matter that Council needs
	rezoning		rezoning) requested that the adjoining	to address as part of implementation of the
			residents, directly behind on Park St also be	Mona Vale Place Plan and its LEP
			considered as part of this rezoning as	consolidation project.
			having pockets of R2 and R3 directly	
			beside each other 'doesn't make sense'.	
19.	Underground natural	1	The current planning proposal will directly	<b>Note</b> – There stormwater drainage report
	watercourse		result in encroachment to underground	and peer review has not identified an
			natural water course.	underground natural watercourse, nor are
				there any details in the submission. A
				revised flooding and stormwater
				management report will be submitted with
				the development application.
20.	Community demographics	1	The current planning proposal will directly	<b>Disagree</b> – a proposal to introduce housing
			impact and change the existing community	diversity will not change the lifestyle of the
			demographics and 'Northern Beaches	local area. The proposal will however
			lifestyle'.	support the provision of a diversity of
				housing types which will assist in key
				workers (i.e teachers, nurses, police
				officers, etc) being able to live and work in
				the area⁵.

<sup>5</sup> https://manlyobserver.com.au/working-homeless-living-in-vehicles-claim-harassment/

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21.	New planning rules and updated definitions	1	The new planning rules and updated definitions for R3 zones provides for much higher density than is currently allowed under R3 and therefore could result in even more significant over development of the	<b>Disagree</b> – The proponent has not sought to amend the maximum Height of Building controls in the Pittwater LEP 2014 which are currently set at 8.5m. This is consistent with the entirety of Mona Vale.
			lots than what is envisaged in the current application.	
22.	Resident objections	1	The current PP disregards residents' previous objections.	<b>Disagree</b> – The proponent has considered every reasonable submission made by residents.
23.	Public open space	1	The current PP will directly increase the number of residents on the site which has the potential to increase use of existing open space areas in the locality and Ku- ring-gai National Park. Consideration should be given to the provision of open space on the site for future residents given the cumulative impact of rezoning this site and other nearby sites on existing open space.	<b>Disagree</b> – Whilst there will be additional residents on the site, the Mona Vale area has extensive areas of open space, including national parks, beaches etc.

0.1				
24.	Draft LEP amendments	1	The current PP fails to provide draft LEP	Partly Disagree and Partly Agree – A
			clauses and a new LEP affordable housing	draft LEP clause and draft LEP map has
			contributions scheme map for the proposed	been included in the revised PP.
			amendments, nor detail how the existing	
			minimum lot size requirement for the site	Whilst the minimum lot size requirement
			will be addressed.	map was not proposed to be amended
				given that the principal development
				standards (part 4) of the PLEP 2014 don't
				trigger minimum lot sizes in <sup>-</sup> he R3 zone, it
				would be tidier for the Minimum Lot Size
				map to also be amended to remove the
				subject site. This is consistent with all R3
				zoned land and will avoid any potential
				confusion.
25.	Insufficient justification	1	The current planning proposal does not	<b>Disagree</b> – The PP details extensive
			adequately justify the rezoning of the	justification for the proposed rezoning. It
			subject site over and before other land	should be noted that the entirety of
			adjoining the site or within the Mona Vale	residential land in Darley Street West is
			town centre zoned R2 or other land across	already zoned R3 and the proposal
			the LGA with similar characteristics and	represents a logical planning inclusion
			attributes.	consistent with the objectives of the

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		Greater Sydney Region Plan and North
		District Plan.
		Council's Mona Vale Place Plan should
		address the remainder of land in the Mona
		Vale area. Whilst Council did initiate a
		Mona Vale Place Plan in 2016, it was
		ceased prior to finalisation. Council again
		commenced a Mona Vale Place Plan in
		December 2021 and progress has been
		slow with the latest updates confirming
		that a draft Place Plan is expected to be
		exhibited in early 2024 with a report for
		Council endorsement in mid to late 2024;
		three years after the process commenced
		for the second time and 2 years later than
		originally advised (August 2022).



## Section 2: Additional Technical Assessments

#### **Biodiversity Assessment**

Cumberland Ecology prepared the original Preliminary Ecological Assessment (PEA) in July 2021 as part of the original PP submission. The original PEA was prepared with the goal of addressing the ecological considerations detailed in the previous DPE Guide to Preparing Planning Proposals (DPIE 2018). This approach provided an indicative assessment of the potential impacts of a future development application and focussed on threatened species, populations, and communities with potential to occur within the site for species listed under the *Biodiversity Conservation Act 2016* and the *Environment Protection and Biodiversity Conservation Act 1999*.

DPE requested through the submissions that the PEA assessment be updated against the current Local Plan Making Guideline (August 2023). Whilst the original PEA has been assessed by Cumberland Ecology against the updated Local Plan Making Guideline and found to be highly compliant as detailed in **Attachment A** of this report, Cumberland Ecology has broadened the PEA to provide a complete understanding of the biodiversity values of the subject site and an indication of the potential impacts of a future DA.

It should be noted that an appropriate biodiversity assessment pathway will be determined as part of the future development application once detailed plans, engineering designs and drainage plans have been developed. This will allow a re-assessment of the Biodiversity Offsets Scheme (BOS) thresholds to be completed and where appropriate influence adjustments to the relevant building designs.

#### Flooding and Stormwater Drainage

A flooding and stormwater drainage peer review was prepared by Lyall and Associates in relation to the PP. A copy of the peer review is included in **Attachment B.** The peer review has considered the relevant technical reports and each of the flooding and drainage submissions made in relation to the PP. It has also assessed the proposal against the Local Planning Direction 4.1– Flooding and provided recommendations for matters to be addressed as part of the future development application.

The key finding of the peer review is that the PP is generally consistent with the requirements of Direction 4.1– Flooding, and where it is considered to be inconsistent, the inconsistencies are of minor significance. The peer review has made recommendations for inclusion in an updated stormwater drainage strategy to be considered as part of a future development application. None of the recommendations would preclude the land from being rezoned now and the Pittwater LEP 2014 and DCP (clause B3.11) provide sufficient head of power for the updated stormwater drainage management plan to be required for submission as part of the future development application.

The peer review recommendations to be implemented as part of the future development application are as follows:

- i. The flood model is to be updated to:
  - a) take account of the blocking effects of buildings that are located upslope of the subject allotments;
  - b) include details of the new stormwater drainage line;
  - c) define the nature of flooding under pre- and post-development conditions for storms
  - d) with intensities of 20, 10, 5 and 1% AEP, as well as the PMF event.
- The results of the flood modelling are to be presented in a clear and consistent manner that makes it easy for the reader to compare flood behaviour under pre – and postdevelopment conditions.
- iii. Figures need to be prepared for each of the aforementioned design storm events showing the following as a minimum:
  - a. the indicative extent and depth of inundation under pre- and post-development conditions;
  - b. maximum flow velocities under pre- and post-development conditions;
  - c. the impact that the proposed development will have on flood behaviour (peak flood levels and maximum flow velocities) , noting they need to show changes in peak flood level as small as 0.01 m; and
  - d. the H1-H6 flood hazard vulnerability classification under pre- and postdevelopment conditions
- iv. A landscaped feature be made of the overland flow path and that a headwall incorporating appropriate safety measures be adopted at the inlet of the new



stormwater drainage line. This will ensure that flow conveyed in the overland flow path can enter the new stormwater drainage line.

- v. A 300 mm freeboard be provided to the 1% AEP in the design of the modified overland flow path where it runs through the subject allotments. This will ensure that all new development is located outside the extent of the flood planning area.
- vi. The new stormwater drainage line be sized to convey the peak 1% AEP flow, with an appropriate blockage factor applied to the aforementioned inlet headwall . This will remove overland flow along the access driveway for all storms up to the 1% AEP storm event.
- vii. Flow in excess of the new stormwater drainage line be permitted to discharge in the same direction as its currently takes (i.e. into 8 Kunari Place). This will prevent Buildings C, D and E from becoming high flood island, while maintaining existing flooding patterns in adjacent properties during storms rarer than 1% AEP.
- viii. Provision be made along the common boundary with 6, 18 and 10 Kunari Place for flow in excess of the capacity of the new stormwater drainage line to be conveyed overland onto Darley Street West and thence to Kunari Place via the public thoroughfare. This will manage overland flow that is not able to discharge to the adjacent properties in Kunari Place due to the blocking effects of existing boundary walls/fences.
- ix. The existing stormwater drainage line be upgraded downstream of the cul -de-sac in Darley Street West to cater for the 1% AEP flow discharging from the proposed development in addition to the flow in NBCs existing stormwater drainage line, with the outlet headwall shifted to a location downstream of 12 Kunari Place. This will ensure that flooding behaviour in 12 Kunari Place is made no worse as a result of the proposed development.

The proponent agrees to submit a revised flooding and stormwater drainage strategy addressing these requirements as part of the future development application.

#### **Affordable Housing Contributions**

Consistent with previous submissions, Solve requests that the final PP be <u>fair, equitable and</u> <u>viable</u>. The provisions as currently drafted fail to recognise that the method uses to determine the affordable housing contribution is inconsistent with the directions of the North District Plan and the proposed method of inclusion in the Pittwater LEP 2014 will reinforce this.

The approach included in the PP at the direction of the panel differs from the approach previously adopted by Council for Frenchs Forest and North Narrabeen. Given there are currently no state guidelines on the method for determining affordable housing contributions, Solve holds that the method being applied in the Northern Beaches Council area should be consistent.

In this regard, the methodology previously endorsed by Council for both North Narrabeen and Frenchs Forest differs significantly with respect to the treatment of bank interest and construction contingency. Table 2 below summarises these differences.

Project	Bank Interest	Construction Contingency
Frenchs Forest <sup>6</sup>	10%	10%
North Narrabeen	10%	10%
Subject Site (Mona Vale)	7.5%	5%

Table 2 – Method Inconsistency

The reliance by Council and its consultants on a construction bank interest allowance of 7.5% in the current market is confusing and in Solve's view, unreasonably skews the outcome of the viability test. The proponent is committed to a current interest rate of 10.4% (loan agreement can be provided upon request) in addition to loan establishment fees and broker fees which are standard in the construction industry. In Solve's experience, this is an absolute minimum benchmark in the current market.

In terms of construction contingency, Solve again highlights the inconsistency in Council's approach., particularly at the rezoning stage and with the proposed approach to integrate the final contribution into the Pittwater LEP 2014 maps. This would be less of a concern if the LEP mapping recognised that the contribution (having regard to feasibility) would be determined at the time of the development application. In order to address the issue of costs, the proponent has retained wtpartnership to address likely construction costs having regard to the likely construction timeframe (post development application). A copy of the wtpartnership cost estimate is attached at **Attachment C.** 

<sup>&</sup>lt;sup>6</sup> <u>https://files-preprod-c9.northernbeaches.nsw.gov.au/nbc-prod-files/affordable-housing-contributions-scheme-may2019.pdf</u>

It should be noted that wtpartnership are an internation firm with specialists in cost management, quantity surveying and project management. Wtpartnership have deep experience in a range of private and government projects. Wtpartnerships assessment of the project is that a design development contingency of 5% should be allowed between now and construction and a further 5% construction contingency which is standard practice for the start of the construction period to cover unforeseen risks. They note that it is also required to meet most financier's requirements. They have also noted that escalation should be allowed to the start of construction and based on increases of 4% in 2023, 2.8% in 2024 and 3.5% in 2025, a general escalation of 5.64% should be allowed. <u>Overall, this results in contingencies and escalation (at rezoning stage) of 15.64%, not 5% as allowed by Council.</u>

Wtpartnership has prepared the construction estimate on benchmark rates for similar projects that have been completed and therefore include escalation during construction. The estimate is based on construction commencing in mid-2025 and based on their experience has assessed that a project of this nature and size would generally require a construction duration of 22-24 months. Again, this is 6-8 months longer than allowed by Council.

Drawing on all of this advice from wtpartnerships, without even assessing the construction estimates applied by Council, the methodology and approach applied by Council is wrong and would render the project unviable. Re-inforcing this through the Pittwater LEP 2014 maps will prevent any future review of the rate at the development application phase, unless another LEP amendment is made.

An extract from Council's Affordable Housing Contributions Scheme is detailed in Figure 1 below. In addition to the above assumptions, it is noted that Council's feasibility study prepared by Hill PDA for the subject site <u>did not credit the existing GFA</u> existing on the subject site (792m<sup>2</sup>), even though it was acknowledged as an appropriate offset in section 1.2 of the report (see Figure 2 below).

The reality is that the assumptions and inconsistent method relied upon by Council for the subject site is inconsistent and results in the project becoming unviable. Council's suggested contribution of \$3.374m results in a net contribution of <u>more than \$82,000 per apartment</u> towards Council's Affordable Housing Contribution Fund. This is in addition to other Council fees and development charges.


Viability is a particularly important consideration because the North District Plan recognises that contributions must be viable (see Figure 3 below). Indeed, whilst the aspiration of the District Plan is to a achieve a contribution of 5–10% of new residential floor space, the contribution <u>must ultimately be determined having regard to viability as referenced in the District Plan</u>. Failure to do so will result in further deterioration of housing supply in an already constrained area.

# Figure 1 – Frenches Forest & North Narrabeen Affordable Housing Contribution Assumptions (Council endorsed)

3.2. Rey inputs and assumptions	
Development form and land use mix	
Assumptions for dwelling and land use role and dwelling size applied in the Northery Braches Insysted Precise Environe Flow. Forsibility Assessment twive been obtained from MacroPlan Dimed and incorporated in Unit analysis.	
Land values	
) and value assumptions have been taken hom the Korthem Beoches Hospith/Peckst.Structure Plen: Feasibility Assosament. The Ised selise applied for this anderia is 52,300 per square metho of developable. Land.	Construction costs Construction costs have been taken from Rawlinsons Construction Cost Guide (Rawlinsons). Rawlinsons
Land development costs	is widely recognised as an industry standard and reference guide for construction costs across Australia
The Ediment later participants table have been call-latered as part of this resigns. Construction exacts for edimension for the second latered as part of the second latered as the second latered lat	and a variety of built forms. Costs are included at a per square metre rate. A construction contingency of 10% of construction costs has also been applied.
Construction costs have been taken from Rowfinsons Construction Cost Guide (Rowfinsons). Rowfinions is widely recognised as an industry standard and reference guide for construction costs across Australia	
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and a windy of fabilit form. Cook are included at a per quiper instea rate, it construction contridgency of 20% of constructions cook has had been applied. Professional free and search devices and services Provide the search of the search	Transaction costs considered as part of this analysis include: — Sales expenses
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Inde a windy of facilit forms. Concerve broadball at a per square motive rate. A construction considering of BNM classification can be also beer adjusted on the construction costs for the purposes of this index statistication are prevently preventing on the construction costs. For the purposes of this represents the constructions costs and the CSL of constructions and been educed and the costs index statistication costs and the costs of costs and the costs and the costs index statistication costs and the costs of costs and the costs of costs and the costs index statistication provides the CSL of constructions and been educed and the costs index statistication provides the costs of costs of the costs of t	Transaction costs considered as part of this analysis include: - Sales expenses - Interest charges
<ul> <li>and a visibly of fails from Cook are located at a per quice motive rate. A stransportation considering of 20% of construction could be also been quiced.</li> <li>Professional free and external vocation and service:</li> <li>Provessional free and external vocation quice rate of the service of the association, polestation of the service of the association of the service of the association of the service of the service construction could. For the quice service of the discretion could be and service the service of the discretion could be associated on the service of the discretion could be associated on the service of the discretion could be associated on the service of the discretion could be associated on the service of the discretion on the quice service of the discretion could be associated on the service of the discretion of the service of the discretion of the service of the service of the discretion of the service of the discretion of the service of the discretion of the service of the s</li></ul>	Transaction costs considered as part of this analysis include: - Sales expenses - Interest charges Sales expenses are assumed to represent 4% of the sales revenue for each dwelling. Interest charges



### Figure 2 HillPDA – Mona Vale Review (Existing Building Credit)



### 2.5 Scenarios testing

Our instructions are to assess the proposed residential development in Section 2.4. Our assessment will inform the viability of the proposed development if a monetary contribution equivalent payment of 5% or 10% for affordable housing was financially viable. The scenarios for consideration included:

- Scenario 1 Base case: This scenario tests the viability of the planning proposal/concept plan that proposes two residential flat buildings (38 apartments) and three townhouses.
- Scenario 2 Affordable housing: This scenario would also be based on the above base case however, to align with Council's affordable housing policy, a monetary contribution equivalent of 5% and 10% of additional residential floor space (deduction of building footprint of existing dwellings) as a public benefit would be applied in our financial modelling. This scenario would determine the viability and overall financial impact of providing affordable housing.
- Scenario 3 Tipping Point: If Scenario 2 are proven to be unfeasible, a tipping point analysis would be undertaken and we would provide a recommendation on an affordable housing contribution rate (%) that the developer could pay.







Having regard to all of these matters, Solve recommends that the panel require an affordable housing contribution amount to be determined as detailed in the recommendations below. In doing so, this would ensure that any future contribution is fair, equitable and viable as expected in the North District Plan.



# Section 3: Pittwater LEP 2014 Affordable Housing Amendments

The approach being sought by Council to include a fixed affordable housing contribution rate (%) in the Pittwater LEP 2014 does not reflect the varying nature of affordable housing contributions which must be viable at the time payment is made (or at least when development conditions are applied).

It should be noted that the proponent does not object to making an affordable housing contribution, but it must be viable. The combination of the assumptions detailed above and the lack of recognition that a development application (DA) is necessary once the subject site is rezoned means that a fixed rate does not allow for viability to be tested at the DA stage, which may be some time later.

The approach outlined in the PP and requested by the Panel and Council (i.e., a fixed affordable housing contribution %) in the LEP will require a further LEP amendment in the future at the time payment is made if the specified amount (5%) continues to be unviable. Council undertook an amendment to the Warringah LEP 2011 for North Narrabeen in February 2022 to reduce the contribution from 5.7% to 1.71% to correct an error in the calculation. This amendment could have been avoided with the approach recommended below.

The proposed approach (provisions and mapping) outlined in Table 3 and Figure 4 below is consistent with the approach adopted by the Penrith City Council for Affordable Housing Contributions<sup>7</sup>. The Penrith LEP 2010 identifies the contribution Area (without a '%' on the map) and then in section 7.31 of the Penrith LEP 2010 addresses the contribution through a link to a contribution plan. Solve's recommendation would establish a similar approach to Penrith with the Affordable Housing Contribution Scheme being updated at the time of DA to recognise updated viability testing.



<sup>&</sup>lt;sup>7</sup> <u>https://legislation.nsw.gov.au/view/html/inforce/current/epi-2010-0540</u>

Action	Recommended Amendment		
Add new section in	7.14 Affordable housing contributions		
part 7 – Additional	) This clause applies to development for the purposes of residential		
Local Provisions	accommodation on land identified as "Affordable Rental Housing		
	Contribution Area" on the Affordable Rental Housing Contribution		
	Scheme Map.		
	(2) When granting development consent to development to which this		
	clause applies, the consent authority may impose a condition requiring		
	an affordable housing contribution (a contribution).		
	(3) A condition imposed under this clause must require a person to		
	satisfy the contribution by a monetary contribution paid to the Council		
	prior to the issue of an Occupation Certificate.		
	(4) The contribution must be calculated at 5% of new residential floor		
	space, subject to viability.		
	(5) To avoid doubt, the demolition of a building, or a change in the		
	use of land, does not give rise to a claim for a refund of a		
	contribution.		
	(6) In this clause—		
	Affordable Rental Housing Contribution Scheme Map means the		
	Pittwater Local Environmental Plan 2014 Affordable Rental Housing		
	Contribution Scheme Map.		
	Viability assessments must include:		
	a. bank interest rates set at the current market rate for		
	commercial / construction loans;		
	b. construction contingency of 10% including 5% design		
	development contingency and 5% construction contingency;		
	and		
	c. Construction duration to be determined by an accredited		
	quantity surveyor.		

### Table 3 – Recommended Pittwater LEP 2014 Amendment

### Figure 4 – Recommended Pittwater LEP 2014 Map Amendment



The Canada Bay LEP 2013 also takes a similar approach to Penrith in not specifying a '%' on the Affordable Housing Contributions Scheme Map.

Whilst Council has applied a '%' in its Warringah LEP 2011, its recent LEP amendment to correct an error at North Narrabeen confirms that it is a <u>clumsy and inefficient</u> way to manage affordable housing contributions. The LEP Mapping should be utilised as trigger where contribution amounts are variable (such as for Affordable Housing contributions which are subject to viability testing).

If it remains as proposed, there will be further delays to housing in an area already significantly behind its housing targets. Given the government's priority to deliver new homes as quickly as possible, it is imperative that any LEP amendments enable viability testing to be fair, equitable and consistent.



# Section 4: Recommendations

Based on the detailed review of submissions in this report, the following amendments are recommended as detailed in Table 4 below:

No.	Item	Recommended Action
		Rezone the site from the R2 Low Density
1	Zoning – Pittwater LEP 2014	Residential Zone to R3 Medium Density
		Residential Zone
		Amend Clause 4.5A of the Pittwater LEP
2	Clause 4.5A – Pittwater LEP 2014	2014 so that the maximum dwelling
2	Clause 4.5A – Pittwater LEP 2014	density requirements do not apply to the
		site
		Remove the subject land from the
3	Minimum Lot Size Map – Pittwater LEP	Minimum Lot Size Map consistent with all
	2014	land zoned R3 in the Pittwater LEP 2014
		Advise the proponent to submit an
		updated flooding and stormwater
		drainage strategy as part of a future
4		development application consistent with
4	Flooding and Stormwater Drainage	the requirements of the Pittwater LEP
		2014 and DCP (clause B3.11) and
		addressing the matters identified in
		section 2 above.
		Advise the proponent to assess the
		Biodiversity Offsets Scheme (BOS)
F	5 Biodiversity	thresholds as part of a future
Э		development application once detailed
		plans, engineering designs and drainage
		plans have been developed.
		Advise the proponent to submit a
6	Construction Management	construction management plan with the
		future development application

Table 4 – PP Recommendations



		addressing construction traffic and
		parking so as to minimise nuisance to
		the adjoining landowners.
	Affordable Housing – new clause 7.14 –	Insert a new clause 7.14 in the Pittwater
7	Additional Local Provisions – Pittwater	LEP 2014 in accordance with Table 3
	LEP 2014	above
		Create a new Affordable Rental Housing
		Contribution Area Scheme Map
		consistent with Figure 4 above, noting
	Affordable Housing Mapping – Pittwater	that the subject site is included in an
8	LEP 2014	Affordable Housing Contribution Area
		but that the contribution will be
		determined in accordance with the new
		clause 7.14 detailed above.
		Advise the Council and proponent that
		the contribution must be calculated on
		new gross floor area only (credit must be
		applied to the existing houses on site)
		and that bank interest must be
		determined based in bank interest rates
		at the current market rate for
		construction / development loans and
		that construction contingency of 10%
	Affordable Housing Contribution Policy	(5% design development contingency
9	and Advice	and 5% construction contingency) must
		be allowed when calculations are
		determined.
		Further advise Council and the
		proponent that construction contingency
		and project costings are to be
		determined by an accredited quantity
		surveyor as part of any future
		contribution calculations.



# Conclusion

None of the matters raised in the consultation period for this PP warrant the rezoning being refused. Indeed, the rezoning represents a logical inclusion in the R3 Medium Density Residential zone and is consistent with the expectations of the Greater Sydney Region Plan and North District Plan.

Whilst the Council has objected to the PP, the Council has failed to progress the Mona Vale Place Plan in almost 7 years and the northern beaches are more than 2,000 homes behind the housing targets set in the North District Plan. Further, the Council has failed to resubmit its Local Housing Strategy to the Department addressing the substantive conditions applied to the current strategy. Lack of housing supply in the northern beaches is resulting in increased homelessness and key workers being forced to live in their cars. The operation of clause 4.5A of the Pittwater LEP 2014 is contributing to a lack of housing diversity and overall housing shortage.

This PP seeks to amend Pittwater LEP 2014 to rezone the subject site from R2 Low Density Residential to R3 Medium Density Residential and exclude the applicability of clause 4.5A to this site. One of the submissions also highlighted the operation of the Minimum Lot Size map in the Pittwater LEP 2014 which is unnecessary when the land is included in the R3 zone. It is therefore recommended that the land also be excluded from the Minimum Lot Size Map.

The FP also proposes the introduction of an affordable housing contribution scheme area over the subject site with determination of the future contribution to be determined in accordance with a new Affordable Rental Housing Contribution clause which is proposed to be inserted into the Pittwater LEP 2014. The approach recommended in this report will ensure that the contribution that is paid will have regard to the drivers of viability which change with market conditions. The approach outlined in this report is consistent with the approach adopted by Penrith City Council and the City of Canada Bay. The recommended approach differs from the current PP but is consistent with the intent of the panel decision, whilst recognising the requirements of the District Plan.

Council's Affordable Housing Contribution plan for the site (and prepared by HillPDA) differs significantly from the approach adopted by Council for North Narrabeen and Frenches Forest. The recommendations of this report seek to address this inconsistency whilst being genuine in the attempt to create a framework of fairness and equity whilst ensuring future viability which can only reasonably be determined at the development application stage.

A number of other recommendations are proposed including detailed technical assessment requirements in relation to flooding and stormwater and biodiversity which should be addressed as part of the future development application.

Overall, the rezoning is a sensible and logical inclusion in the R3 Medium Density Residential zone and should be approved.



# Attachment A – Biodiversity





09 February 2024

Andrew Thurlow INTREC Management 73 Reserve Rd Artarmon NSW 2064

### Cumberland Ecology response to the Environment and Heritage Group's comments on the Preliminary Ecological Assessment for the 159-167 Darley Street, Mona Vale Planning Proposal

Dear Andrew,

During July 2021, Cumberland Ecology prepared a Preliminary Ecological Assessment in support of a planning proposal (REF: 21032 RP1). The planning proposal sought to amend zoning for 159-167 Darley Street, Mona Vale from R2 – Low Density Residential to R3 – Medium Density Residential under the *Pittwater Local Environmental Plan 2014*. On 14 December 2023, the Department of Planning and Environment's Environment and Heritage Group provided comments on the planning proposal and the Preliminary Ecological Assessment. This letter aims to respond to the Environment and Heritage Group's comments that relate to biodiversity assessment.

Background information and responses to the comments are provided in **Appendix A**, whilst **Appendix B** of this letter contains additional Tests of Significance.

Yours sincerely,

Dave Robertson

David Robertson Director David.robertson@cumberlandecology.com.au

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# APPENDIX A :CumberlandEcologyResponsestoEHGComments

### A.1. Background

During July 2021, Cumberland Ecology prepared a Preliminary Ecological Assessment (PEA) in support of a planning proposal (REF: 21032 RP1), seeking to amend zoning for 159-167 Darley Street, Mona Vale (hereafter referred to as the 'subject site') from R2 – Low Density Residential to R3 – Medium Density Residential (hereafter referred to as 'the project') under the *Pittwater Local Environmental Plan 2014* (LEP). The PEA was prepared with the goal of addressing the ecological considerations described in the Department of Planning and Environment's Guide to Preparing Planning Proposals (DPIE 2018) by describing current biodiversity values of the subject site and providing an indicative assessment of the potential impacts of a future Development Application (DA) on the biodiversity values of the subject site. The PEA was focussed on threatened species, populations and communities with potential to occur within the subject site that are listed under the New South Wales (NSW) *Biodiversity Conservation Act 2016* (BC Act) and the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

On 14 December 2023, the Department of Planning and Environment's Environment and Heritage Group (EHG) provided comments on the planning proposal and the PEA. This document aims to respond to EHG's comments relevant to biodiversity. A summary of the findings of the PEA are found below in **Section A.1.1**. This document largely deals with the contents of the PEA and is intended to be read in conjunction with the PEA. The PEA was written in July 2021, prior to the release of the former Local Environmental Plan Making Guideline in December 2021. Despite this, the PEA has been assessed against the current Local Environmental Plan Making Guideline which was released in August 2023 and is considered to be highly compliant (as detailed in **Section A.2.2**).

Subsequently, the PEA is considered to provide consent authorities and agencies with sufficient information to gain an understanding of the biodiversity values of the subject site and an indication of potential impacts of a future DA. Detailed plans will be made available at the DA stage and the appropriate biodiversity assessment pathway will be determined, involving re-assessment of the Biodiversity Offsets Scheme (BOS) thresholds.

### A.1.1. Results of the PEA

The subject site was found to contain 0.19 ha of degraded Pittwater Spotted Gum Forest, which was assigned to plant community type (PCT) 1214. This PCT has since been decommissioned and replaced with PCT 3234. This PCT was also found to be consistent with the Pittwater and Wagstaffe Spotted Gum Forest in the Sydney Basin Bioregion (PWSGF) threatened ecological community (TEC), listed as endangered under the BC Act. The PWSGF within the subject site is highly degraded and offers little habitat to native flora and fauna, largely comprising scattered characteristic trees of the community of varying age and condition above a historically cleared and exotic dominated understorey.

The remainder of the subject site is comprised of Planted Native Vegetation (0.04 ha), Exotic Vegetation (0.17 ha), Exotic Dominated Grassland (0.05 ha) and Cleared Land (0.17 ha). The likely future development is anticipated to result in impacts to a 0.09 ha of PCT 1214, 0.04 ha of Planted Native Vegetation, 0.11 ha of Exotic Vegetation and 0.04 ha of Exotic Dominated Grassland. The distribution of vegetation communities across the subject site is shown in **Figure 1**.

The PWSGF vegetation throughout the subject site comprises marginal foraging habitat likely to only be utilised by aerial and highly mobile threatened native fauna species on an occasional or opportunistic basis as

part of a broader habitat range. These species are unlikely to be dependent on the resources present in the subject site due to the small area of available habitat and the highly disturbed urban setting. No threatened flora species were observed within the subject site other than commonly cultivated, planted individuals of *Macadamia tetraphylla* (Rough Shelled Bush Nut) and *Macadamia integrifolia* (Macadamia Nut) which are endemic to northern NSW.

A Test of Significance has been prepared for PWSGF which indicated that a significant impact is unlikely to occur based on the indicative footprint of the likely future development. The PEA indicates that issues relating to threatened species and threatened ecological communities are manageable and not significant. The impacts of a future DA and the applicable biodiversity assessment, avoidance measures or mitigation measures will need to be re-evaluated at the DA stage of the project.

### A.1.2. Additional Proposed Mitigation Measure: Vegetation Management Plan

A suite of mitigation measures were proposed within the PEA, including the intention to revegetate the southern portion of the subject site with PWSGF species. This document proposes an additional measure seeking to build upon efforts to mitigate and minimise the impacts on biodiversity values for a potential future DA. The additional proposed measure will involve the preparation of a Vegetation Management Plan (VMP) at the DA stage of the project (or as a condition of consent). The VMP will aim to ensure the persistence of PWSGF throughout the subject site into the future, with management and monitoring of retained native vegetation and to facilitate revegetation plantings. The intention for the revegetation area plantings is to re-establish native PWSGF understorey under existing scattered native canopy trees and to replace adjacent exotic dominated vegetation with characteristic species of the TEC.

It is noted that the revegetation area contains identified overland water flows, as numerous adjacent properties drain into the subject site. Subsequently, the southern portion of the subject site will also need to accommodate the construction of stormwater management infrastructure. Overland flow areas outside of stormwater infrastructure may be planted out with characteristic species of the current PWSGF PCT (3234) as it lists several riparian species that are tolerant of wet conditions or have a history of use within raingarden plantings. This may include *Melaleuca* spp., *Callistemon* spp., *Lomandra* spp., *Gahnia* spp. and *Goodenia* spp and any other relevant characteristic species tolerant of wet conditions.

With consideration of the currently proposed stormwater management infrastructure, the revised indicative revegetation area is 0.12 ha (1223 m2) in area in total. This comprises a 0.07 ha (678 m2) area occupied by extant PWSGF canopy and a 0.05 ha (545 m2) area of exotic vegetation to be replaced with native species. Additionally, a large PWGSF canopy tree adjacent to the revegetation area has the potential to be retained (following confirmation by an arborist at the DA stage) which occupies a canopy area of 0.02 ha (193 m2). The details of the revegetation area and the objectives of an associated VMP will need to be confirmed at the DA stage once detailed plans have been prepared.

The indicative revegetation area is shown in Figure 1.

### A.2. Detailed Responses

### A.2.1. Response to EHG Comments

Table 1 contains in depth responses to EHG's comments on Cumberland Ecology's PEA that was prepared in support of the planning proposal.

Table 1 Cumberland Ecology responses to EHG comments on the PEA		
Comment/ Response	EHG Comment	Cumberland Ecology Response
General Con	nments	
1	The PP states it is unlikely that future development of the subject land will	As part of the PEA, Cumberland Ecology had prepared a Test of Significance for Pittwater and

trigger the Biodiversity Offset Scheme (BOS) and not require the preparation of a biodiversity development assessment report in accordance with the Biodiversity Assessment Method (BAM) (page 76).

One of the triggers for entry into the BOS is the assessment of significance. The Assessment of Significance provided within Appendix C of the Preliminary Ecological Assessment concludes no EHG significant impact. However, considers the conclusions of the Assessment of Significance have not been adequately justified.

Wagstaffe Spotted Gum Forest in the Sydney Basin Bioregion (PWSGF) in accordance with Section 7.3 of the BC Act. This test of significance concluded that future development of the subject site would not result in a significant impact.

The EHG comments state that the conclusions of the Test of Significance have not been adequately justified. Whilst the comments do not detail the nature of the missing justification, the proponent has commissioned Cumberland Ecology to prepare additional Tests of Significance for Microchiropteran Bats, Large Forest Owls and the Grey-headed Flying-fox (See Appendix B). These additional Tests of Significance conclude that the impacts of a potential future DA do not constitute a significant impact upon assessed threatened entities listed in the schedules of the BC Act.

Regardless of the outcome of a test of significance, the Biodiversity Offsets Scheme (BOS) applies to local developments assessed under Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act) for projects involving a significant impact on biodiversity. Tests of significance are only one means of determining a significant impact on biodiversity and will need to be reassessed at the DA stage along with the other BOS thresholds.

As the project involves rezoning, the BOS entry thresholds are considered less relevant at this point in time. Notwithstanding, the PEA has

**EHG Comment** Comment/ Response

2

### **Cumberland Ecology Response**

at the DA stage for a Part 4 local development. Section 3.25 of the Environmental Planning and Assessment Act 1979 requires the relevant planning authority, before making a LEP, to consult with the Chief Executive of the Office of Environment and Heritage, if, in the opinion of the relevant authority, critical habitat or threatened species, populations or ecological communities, or their habitat s, will or may be adversely affected by the proposed instrument.

The Preliminary Ecological Assessment has not provided adequate information to be able to understand the biodiversity values on the site and the impacts to those biodiversity values from the proposal. EHG recommends that at a minimum, assessment of biodiversity values and impacts be undertaken through application of Stages 1 and 2 of the BAM. This approach will ensure biodiversity outcomes are optimised and future development can proceed with greater certainty. It will also allow EHG to adequately consider any proposed biodiversity impacts.

The former Department of Planning, Industry and Environment released the Local Environmental Plan Making Guideline in December 2021 (DPIE 2021). Appendix C of the 2021 LEP Making Guideline outlines biodiversity assessment requirements for planning proposals of varying complexity.

included a preliminary assessment of BOS thresholds which will help to determine the biodiversity assessment pathway to be completed

Whilst the PEA was prepared in July 2021 prior to the release of the LEP Making Guideline, the PEA was prepared in accordance with Cumberland Ecology's standard approach to biodiversity assessments for planning proposals, with the preparation of a Flora and Fauna Assessment style report. Cumberland Ecology believes that the PEA meets the biodiversity assessment requirements of the LEP Making Guideline comprehensively.

An updated LEP Making Guideline was published by the NSW Department of Planning and Environment in August 2023 (DPE 2023). This document outlines the latest guidelines for planning proposals and amendments to LEPs. An assessment of the adequacy of the PEA against the minimum biodiversity requirements outlined in the 2023 guidelines for amendments to LEPs is provided in Table 2.

In the period following the preparation of the PEA, Cumberland Ecology has noted precedence of requests from State Government Agencies for consultants to prepare biodiversity assessments utilising Stage 1 (or Stage 1 & 2) of the BAM in support of complex planning proposals.

Comment/ EHG Comment Response

### **Cumberland Ecology Response**

However, as demonstrated in **Table 2**, the 2021 PEA meets the minimum requirements of the current guidelines for biodiversity assessment for planning proposals. As such, we believe that it provides sufficient information for consent authorities and government agencies to gain an understanding of the biodiversity values of the subject site to inform determination of the project.

As detailed in **Response 1**, tests of significance prepared for the PEA and this document do not indicate a significant impact to threatened entities listed in the schedules of the BC Act and no other BOS entry thresholds will likely be triggered by a potential DA. This conclusion assumes that the scope of impacts associated with future development of the subject site will remain similar to what was presented in the planning proposal. Regardless as to whether changes to the scale of impacts occur at the DA stage, BOS thresholds must be re-evaluated at that DA Stage.

The suitability of the application of the BAM to the project at the current time is detailed in **Response 5** below.

As detailed in **Response 2**, the BOS and the BAM were not deemed suitable for application to the project as it is not a local development under Part 4 of the EP&A Act. Subsequently, there was no formal requirement or known precedence to apply the BAM (including Section 7) to the project at the time of writing.

However, it is agreed that avoid and minimise principles must be applied to any future DA within the subject site. The PEA has considered the application of avoidance and minimisation as part of preparation of the concept plan presented within the planning proposal. The retention of

The proposal does not adequately avoid and minimise impacts by appropriately

locating and designing the proposal and

reducing the scale of the development in

accordance with Section 7 of the BAM.

Comment/ EHG Comment Response

### **Cumberland Ecology Response**

0.09 ha of PWSGF represents a significant proportion of the native vegetation across the subject site. The remaining area of PWSGF to be removed is highly degraded and comprises scattered trees over an exotic understorey in a residential setting. The trees proposed to be retained bear a slightly greater degree of connectivity to adjacent vegetation and habitat and have been prioritised for retention and embellishment under a VMP.

In addition to the avoidance measures, a 0.12 ha revegetation area is proposed throughout the southern portion of the site in association with a future DA. This will provide an opportunity for the continued presence of PWSGF within the subject site and re-establishment of PWSGF understorey. Native PWSGF understorey has likely been absent from the subject site for several decades and its re-establishment will significantly improve the habitat value for native flora and fauna, including threatened species.

To ensure that any future regeneration works are ecologically sound, maximise success of plantings, and to guarantee appropriate ecological monitoring, a VMP is proposed to be prepared by a suitably experienced and qualified ecologist at the DA stage as described in **Section A.1.2**.

4

It is unclear how the endangered vegetation on the site which is proposed for retention will be managed and protected in the future. The PP should identify methods by which to actively manage and conserve native vegetation across the site to ensure the security and protection of the retained EEC, threatened species and threatened species habitat.

As discussed in **Response 3** and **Section A.1.2**, a VMP is proposed to be prepared as part of the DA package or as a condition of consent. Management of extant and revegetated PWSGF will occur under a VMP which facilitate its ongoing presence and protection into the future.

Comment/ Response	EHG Comment	Cumberland Ecology Response
EHG Recom	mendations	
5	The proposal should be accompanied by a biodiversity assessment report that is compliant with Stages 1 and 2 of the BAM	The concept plan submitted as part of the planning proposal provided an appropriate indication of potential impacts of future development of the subject site. Although the PEA was prepared prior to the current LEP Making Guidelines being published, the PEA has addressed the minimum requirements of the current guidelines. The PEA provides an in-depth assessment of the biodiversity values of the subject site and potential impacts that may arise from future development and is considered to be relevant and adequate for use in 2024.
		The preparation of biodiversity assessments in support of planning proposals utilising components of the BAM is a valid approach and is becoming more common in practice for complex planning proposal projects. However, given that the planning panel cannot specify or approve a development concept, components of Stage 2 of the BAM would be difficult to apply to the project with confidence at this stage. Nevertheless, Stage 1 of the BAM is more feasible to apply at the planning proposal stage with the exception of identifying prescribed additional biodiversity impacts which may still be unknown.
		However, given the very small area and limited biodiversity values of the subject site, and highly urbanised nature of the surrounding area, the PEA is considered entirely adequate (and appropriate) to give an informed reader an understanding of the ecological context and potential impacts of the project and future development.
		Due to the existence of the PEA, a BAM assessment would be more appropriately prepared at the DA stage of the project if the BOS thresholds are exceeded. This is in line with the conclusions of the PEA which discusses the various options for biodiversity assessment at the DA stage.

Comment/ Response	EHG Comment	Cumberland Ecology Response
6	Areas of PWSGF should be avoided in the proposal design and an adequate buffer is provided around PWSGF remnants to avoid I degradation of the PWSGF by future development and use of the site	As discussed in the PEA, a suitable area of PWSGF has been avoided from impacts as shown on the concept plan and in <b>Figure 1</b> . Future management under a VMP will facilitate the continued presence, expansion and recovery of PWSGF throughout the subject site in the future (as discussed in <b>Response 3</b> and <b>Section A.1.2</b> ).
7	<ul> <li>A permanent barrier (such as a fence) is placed at the outside edge of the PWSGF that is to be retained and protected to delineate and prevent inadvertent damage to the PWSGF during the construction and future use of the site. The fence needs to be appropriate to the site and be designed to:</li> <li>allow for small native fauna passage underneath</li> <li>be suitable as a maintenance edge for management such as mowing/slashing etc.</li> </ul>	Whilst a fauna-friendly fence would be a desirable mitigation measure, it is important to note that the subject site is also addressing an existing stormwater drainage issue in the area. As a result, the inclusion of permanent fauna-friendly fencing surrounding the revegetation area is not practical as it may not be compatible with stormwater infrastructure and associated ongoing management.
8	A vegetation management plan is prepared and implemented for the site by a suitably qualified bush regenerator for the rehabilitation, management, and long-term maintenance any retained PWSGF.	Cumberland Ecology agrees that a VMP must be prepared for the subject site at the DA stage or as a condition or consent. Any such VMP must be prepared by a suitably qualified and experienced ecologist rather than a bush regenerator as stated in the EHG comment. This is to ensure that proposed management and revegetation is ecologically sound. Suitably experienced bush regenerators must be engaged to undertake the implementation of the
		VMP and associated on-ground works if a DA were to proceed.
9	A site specific DCP is prepared with objectives and controls to protect, rehabilitate and conserve the PWSGF on the site.	Given the small size of the subject site and the highly urbanised context, a site specific DCP is considered unnecessary, particularly when a future DA is required to be submitted to the Northern Beaches Council (as Consent Authority). Any such DA will include a VMP.

Comment/ Response	EHG Comment	Cumberland Ecology Response
		The former Pittwater Council's DCP - section C1.1 provides sufficient controls to require the proponent to submit a VMP in place or alongside a Landscaping Plan as part of a future DA. Subsequently, a site specific DCP is considered to be unnecessary.

### A.2.2. Assessment of the PEA against current LEP amendment guidelines

**Table 2** contains an assessment of the adequacy of the information presented in the PEA submitted with the planning proposal, against items relevant to biodiversity from the current guidelines for LEP amendments from the Local Environmental Plan Making Guide published by the NSW Department of Planning and Environment in August 2023 (DPE 2023).

### Table 2 Assessment of the PEA against relevant LEP amendment guidelines

Guideline question relevant to biodiversity	Guideline Considerations	Relevant Section of PEA	Cumberland Ecology Comment
			Section 2.2 of the PEA details the methods of field surveys undertaken to identify the potential for critical habitat, threatened species, population, or community occurrence within the subject site.
Is there any likelihood that critical habitat or threatened species, populations or ecological communities, or	Identify if the land subject to the proposal has the potential to contain critical habitat or threatened species, populations or ecological communities, or their habitats	Section 2.2, 3.2, 3.3 and 3.4	Section 3.2 of the PEA discusses the results of vegetation mapping and BAM plot surveys and describes the condition and distribution of extant vegetation communities including a detailed assessment against the PWSGF final determination, confirming the presence of the TEC.
their habitats, will be adversely affected because of the proposal?			Section 3.3 of the PEA details the results of floristic surveys with general breakdowns of species recorded, threatened flora occurrence and incidence of significant weeds which may inform future management.
	If yes, undertake studies that are necessary to confirm the presence of these specifies or habitats and their significance. An assessment of its significance and/or consultation	Section 1, 2, 3 and 4 Appendix A and B	Following field surveys, it was determined that the PWSGF TEC and degraded threatened fauna habitat occurs within the subject site. A detailed biodiversity assessment was subsequently prepared in the form of the PEA, with regard to the relevant guidelines for amendments to LEPs, and assessment of the significance of available habitat for native flora and fauna and the PWSGF TEC.

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Guideline question relevant to biodiversity	Guideline Considerations	Relevant Section of PEA	Cumberland Ecology Comment
	should place to inform the Gateway determination		
	Occurrer in Section Mapping may be provided in the indicativ	Figure 5 of the PEA maps the vegetation community and habitat feature occurrence within the subject site in accordance with the descriptions provided in Section 3. This figure also maps the indicative development footprint, indicative areas of retained/avoided vegetation and nominates an area of exotic vegetation proposed to be regenerated back to PWSGF under a VMP.	
	site		Additional general maps have also been provided beyond the minimum requirements, identifying the location of the subject site, providing an aerial image from 1943 for historical context and field survey locations.
		a no significant impact expected for a potential proposal were to be approved. An updated test of significance has been prepare tests for Microchiropteran Bats, Large Forest Owls Fox (See <b>Appendix B</b> ).	A Test of Significance for PWSGF was prepared as part of the PEA concluding a no significant impact expected for a potential future DA if the planning proposal were to be approved.
	An assessment of significance in accordance with Part 7A of the Fisheries Management Act 1994 and the 'Threatened Species Assessment Guidelines', may be required prior to		An updated test of significance has been prepared for PWSGF, in addition to tests for Microchiropteran Bats, Large Forest Owls and the Grey-headed Flying Fox (See <b>Appendix B</b> ).
	Gateway determination		The outcomes of the Tests of Significance conclude that the impacts of a potential future DA does not constitute a significant impact upon assessed threatened entities listed in the schedules of the BC Act. As the project deals with a planning proposal with only an indication of potential impacts of

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Guideline question relevant to biodiversity	Guideline Considerations	Relevant Section of PEA	Cumberland Ecology Comment
			development, Tests of significance will need to be re-evaluated at the DA stage once fine-scale impacts are determined.
	Identify any approvals required under the Environment Protection and Biodiversity Conservation Act 1999 (Cth) and Biodiversity Conservation Act 2016	Section 4.3	Section 4.3 of the PEA thoroughly discusses approvals required under the EPBC Act and BC Act.
	Any adverse impacts will trigger the requirement for the PPA to consult on the planning proposal with relevant	the highly degraded condition and very small area of potentially impacted by future development, Cumber and 5 concluded no significant impact upon threatened e schedules of the BC Act. Appendix C As the impacts of potential future development were no consultation with authorities or government agencies	Determination of what constitutes an adverse impact is highly subjective. Giver the highly degraded condition and very small area of native vegetation potentially impacted by future development, Cumberland Ecology's PEA concluded no significant impact upon threatened entities listed in the schedules of the BC Act.
	authorities and government agencies		As the impacts of potential future development were not deemed significant consultation with authorities or government agencies was not considered necessary prior to the submission of the planning proposal.

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### References

DPE. 2023. Local Environmental Plan Making Guideline.

DPIE. 2018. A guide to preparing planning proposals. Department of Planning and Environment, Sydney.

DPIE. 2021. Local Environmental Plan Making Guideline.

OEH. 2016. The Native Vegetation of the Sydney Metropolitan Area. VIS\_ID 4489. Office of Environment and Heritage, Sydney.

OEH. 2018. Threatened Species Test of Significance Guidelines. Office of Environment and Heritage, Canberra.



# **APPENDIX B**: Tests of Significance



This appendix contains the formal Tests of Significance required under Section 7.3 of the BC Act that have been prepared in accordance with the Threatened Species Test of Significance Guidelines (OEH 2018). The Test of Significance is used for determining whether proposed development or activity likely to significantly affect threatened species or ecological communities, or their habitats.

Tests of Significance have been provided for communities and species listed as vulnerable, endangered or critically endangered under the BC Act. Each Test of Significance is a series of factors (shown as italicised text below) for which a response has been supplied beneath in plain text.

### **B.1. Pittwater and Wagstaffe Spotted Gum Forest**

The Pittwater and Wagstaffe Spotted Gum Forest TEC has been assessed in the following Test of Significance:

a. In the case of a threatened species, whether the proposed upgrades or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction.

Not Applicable.

- *b.* In the case of an endangered ecological community or critically endangered ecological community, whether the proposed upgrades or activity
  - *i. is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or*
  - *ii. is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction.*

A large proportion of the community is proposed to be retained and enhanced within the subject site, with management under a VMP to facilitate the re-establishment of native understorey components of the TEC. In light of the proposed on-site retention and regeneration of the community, It is not expected that the removal of a relatively small area of degraded PWSGF is likely to have an adverse effect on the extent of the vegetation community such that its local occurrence will be placed at risk of extinction. Additionally, the area of the TEC to be retained is located along the southern boundary of the subject site, bearing connectivity to the native vegetation within the adjacent lot. Out of the native vegetation occurrence throughout the subject site, the area of the TEC to be retained is of the highest ecological retention value and will serve to maintain a degree of linkage throughout the surrounding urban landscape.

The removal of a proportion of the community within the subject site is not considered to modify the remaining extent of this community such that its local occurrence is likely to be placed at risk of extinction. The species present within the subject site are all present within adjacent areas of PWSGF to be retained and likely occur commonly throughout the patches within the locality. All native species recorded within the subject site are common, PWSGF species, and no threatened or rare plants are proposed to be impacted. Additionally, the re-establishment of characteristic native understorey elements of PWSGF is anticipated to have a positive influence on the composition of the ecological community and is expected to increase the habitat values of PWSGF within the subject site.



- c. In relation to the habitat of a threatened species or ecological community
  - *i.* the extent to which habitat is likely to be removed or modified as a result of the proposed upgrades or activity, and
  - *ii.* whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed upgrades or activity, and
  - iii. the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community in the locality,

The total area of PWSGF within the subject site is 0.19 ha. The proposed action will result in the removal of 0.09 ha of PWSGF within the subject site. 0.09 ha of the community will remain in the subject site with the majority to be restored with understorey plantings and additional canopy species where appropriate.

The PWSGF to be removed is part of a network of degraded, fragment patches throughout the locality. The area to be removed is a small area on the southern periphery of the existing distribution of the community and will not exacerbate fragmentation (OEH 2016). No areas of the community are expected to become further isolated as a result of the proposed action as the area of the TEC to be retained and managed bears connectivity to adjacent vegetation located outside of the subject site.

The habitat to be removed is not expected to be important to the long-term survival of the ecological community in the locality as it comprises a small area of degraded vegetation in an urban context.

d. Whether the proposed upgrades or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly),

The BC Act currently lists the following AOBVs:

- Gould's Petrel habitat;
- Little Penguin population in Sydney's North Harbour habitat;
- Mitchell's Rainforest Snail in Stotts Island Nature Reserve; and
- Wollemi Pine habitat.

The project is not located within or in proximity to the aforementioned AOBVs and is therefore not likely to have an adverse effect on any AOBVs.

e. Whether the proposed upgrades or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.

The following key threatening process is relevant to PWSGF occurring within the subject site:

• 'Clearing of native vegetation' as this reduces the area habitat available for this community

The primary key threatening process relevant to the proposed development is the clearing of native vegetation, as 0.09 ha of PWGSF will be removed within the subject site. However, the PWGSF within the subject site is



currently highly degraded consisting of canopy trees over exotic dominated gardens. The majority of the subject site has been previously cleared and is now dominated by exotic vegetation and is highly influenced by residential land use. A small area of PWGSF will be retained and regenerated in the subject site with the reestablishment of native understorey under the guidance and management of a VMP at the DA stage. This is expected to increase the biodiversity value of PWSGF across the subject site in the long term. Subsequently, clearing of native vegetation is not likely to significantly impact the PWSGF of the locality.

### Conclusion

The proposed development is expected to impact on the removal of a small area (0.09 ha) of PWSGF. The current state of the community on the subject site is highly degraded due to long term management of the understorey within a residential lot. The area of the TEC to be retained is considered to be of highest ecological retention value of the vegetation throughout the subject site, providing connectivity to native vegetation outside of the subject site. The proposed development is not considered likely to significantly impact the PWSGF within the locality.

Potential future development of the subject site may result in the removal of approximately 0.09 ha of degraded PWSGF within the subject site. Due to the currently degraded condition of the TEC within the subject site and the relatively small area potentially subject to impacts, future development will not significantly impact PWSGF or influence the viability of other remnants in the surrounding urban landscape. Additionally, the proposed 0.12 ha retention/revegetation area will provide opportunities for improving the biodiversity value of retained PWSGF and will facilitate the re-establishment of characteristic understorey species of the TEC which have likely been absent from the subject site for several decades. This will be undertaken following the preparation of a VMP for the retention area at the DA stage.

The project is not likely to have a significant detrimental impact upon PWSGF and subsequently a Biodiversity Development Assessment Report is not required based on this test of significance.

### **B.2. Microchiropteran Bat Species**

The following threatened microchiropteran bat species have been assessed collectively in the following Test of Significance:

- Eastern Coastal Free-tailed Bat (Micronomus norfolkensis);
- Eastern False Pipistrelle (Falsistrellus tasmaniensis);
- Large Bent-winged Bat (Miniopterus orianae oceanensis);
- Large-eared Pied Bat (Chalinolobus dwyeri); and
- Little Bent-winged Bat (Miniopterus australis).
  - a. in the case of a threatened species, whether the proposed development or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction



The above listed bat species have not been recorded within the subject site, but they have been recorded within the locality. The local populations of these potentially occurring species is considered to extend far beyond the subject site. The 0.24 ha area of marginal foraging habitat within the subject land comprises exotic trees, planted native trees and scattered trees associated with PWSGF. Microchiropteran bats would be expected to forage for insects within the subject site on an occasional and opportunistic basis as part of a larger foraging range. All five of the microchiropteran bat species are highly mobile and have large foraging ranges, so are unlikely to depend on the marginal habitat of the subject site.

Four hollow-bearing trees may be removed as part of a future DA, one of which may be less likely utilised by microchiropteran bats due its low height in the tree. However not all hollow-bearing trees are to be removed, with the retention of one in the southern portion of the subject site.. The Eastern Coastal Free-Tailed Bat and the Eastern False Pipistrelle Bat are the only species that would be affected by the removal of the hollows, as the other three species roost in caves. To mitigate the removal of habitat features, nest-boxes are proposed to be installed within retained vegetation. Salvage of extant habitat features can also be considered at the DA stage.

The subject site is in close proximity to the Ku-ring-gai Chase National Park, Robert Dunn Reserve, Warriewood Wetlands, Bayview Golf Club and Mona Vale Golf Club, all containing large quantities of higher quality foraging habitat and habitat features for tree hollow roosting species. Subsequently, microchiropteran bats are unlikely to prioritise utilisation of the subject site over higher quality and larger areas of habitat.

Due to its degraded condition and small area, the habitat to be impacted by a future DA associated with the project will not be important for the long-term survival of these species within the locality. A small area of habitat will be retained within the subject site, and the surrounding landscape offers large areas of higher quality habitat. Subsequently, the project is not considered to have an adverse impact on the lifecycle of this species such that a viable local population is likely to be placed at risk.

- b. in the case of an endangered ecological community or critically endangered ecological community, whether the proposed development or activity:
  - *i. is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or*
  - *ii. is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction,*

### Not applicable.

- c. In relation to the habitat of a threatened species or ecological community:
  - *i.* the extent to which habitat is likely to be removed or modified as a result of the proposed development or activity, and
  - *ii.* whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed development or activity, and

iii. the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community in the locality,

Approximately 0.24 ha of degraded vegetation canopy may be removed from the subject site as part of a future DA. This habitat comprises marginal foraging habitat for the assessed microchiropteran bat species. Additionally, a 0.07 ha area of vegetation is proposed to be retained with a further 0.09 ha of exotic vegetation to be regenerated into PWSGF. The potential impacts to habitat are expected to be localised and will not cause a substantial change in the extent of the habitat for these species, given the high quality habitat available in the surrounding landscape.

The removal of vegetation is unlikely to result in the fragmentation of an area of habitat for microchiropteran bat species as they are all highly mobile, aerial species which accesses resources over a large area. Connectivity will remain throughout the 0.12 ha PWSGF retention/revegetation area which interfaces with adjacent vegetation outside of the subject site. As such, a future DA may encroach into the edge of existing foraging habitat, it will not isolate or fragment habitat. The potential habitat on the subject site represents only a very small area available to these species in the locality. As the species are highly mobile and access resources from across a large foraging range, the project is unlikely to decrease the movement of individuals and gene flow throughout the locality or within or between local populations. Accordingly, the project will not remove, modify, fragment or isolate important habitat.

Previous residential land use has resulted in the degradation of microchiropteran bat habitat within the subject site over time. The habitat in question is small in area, degraded, bears a low degree of connectivity to higher quality habitat within the surrounding landscape and offers limited breeding opportunities for tree-hollow roosting bats. Subsequently, habitat potentially impacted by a future DA is not considered important for the long-term survival of the assessed microchiropteran bat species within the locality.

d. whether the proposed development or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly),

The BC Act currently lists the following AOBVs:

- Gould's Petrel habitat;
- Little Penguin population in Sydney's North Harbour habitat;
- Mitchell's Rainforest Snail in Stotts Island Nature Reserve; and
- Wollemi Pine habitat.

The project is not located within or in proximity to the aforementioned AOBVs and is therefore not likely to have an adverse effect on any AOBVs.

e. whether the proposed development or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.

The project could result in the following key threatening process:

• 'Clearing of native vegetation', as this reduces the area of habitat available for threatened species and communities.

The key-threatened process of 'Clearing of native vegetation' may potentially impact the foraging habitat for the assessed microchiropteran bat species. However, the vegetation on the subject site is highly degraded and is not considered optimal foraging habitat for these species. The majority of the subject site has been previously cleared and is now dominated by exotic vegetation and is highly influenced by residential land use. A small area of habitat will be retained and regenerated in the subject site with the re-establishment of native understorey, which may provide higher quality habitat for invertebrate prey species in the long term. Subsequently, clearing of native vegetation is not likely to significantly impact habitat for the assessed microchiropteran bat species.

### Conclusion

Approximately 0.24 ha of largely exotic dominated, marginal foraging habitat will be removed within the subject site; however large areas of high-quality foraging areas are available within the surrounding landscape, including Ku-ring-gai Chase National Park, Warriewood Wetlands, Robert Dunn Reserve, Mona Vale Golf Club and Bayview Golf Club. Local populations of the assessed microchiropteran bat species are unlikely to depend on the limited and degraded habitat resources contained within the subject site for their survival.

The habitat located within reserves of the surrounding area will remain in perpetuity and will continue to provide high habitat values, greatly exceeding the contextually small areas of habitat proposed to be potentially removed within the subject site. As such, the project or an associated future DA is not likely to place a viable local population of these species at risk of extinction. All five species are highly mobile and are expected to move between areas of remaining habitat within the immediate vicinity of the subject site and wider area. Nevertheless, a 0.12 ha retention/revegetation area will provide a small area of habitat within the subject site that will be managed under a VMP.

The project is not likely to have a significant detrimental impact upon any of the assessed species and subsequently a Biodiversity Development Assessment Report is not required based on this test of significance.

### **B.3. Large Forest Owl Species**

The following threatened large forest owl species have been assessed collectively in the following Test of Significance:

- Barking Owl (Ninox connivens); and
- Powerful Owl (Ninox strenua).
  - a. in the case of a threatened species, whether the proposed development or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction



The Powerful Owl and Barking Owl are highly mobile, aerial species that have vast foraging ranges across large territories, such that the species are unlikely to rely on the small area of habitat within the subject site. The 0.28 ha of marginal foraging habitat within the subject site is comprised of exotic grassland, exotic trees, planted native trees and scattered trees associated with PWSGF. The subject site would be within the territory of individuals or breeding pairs of the assessed species who would be expected to forage for prey within the subject site and surrounding landscape on an occasional or opportunistic basis.

The subject site is in close proximity to the Ku-ring-gai Chase National Park, Robert Dunn Reserve, Warriewood Wetlands, Bayview Golf Club and Mona Vale Golf Club, all containing large quantities of higher quality foraging habitat and habitat features for tree hollow roosting species. Subsequently, Large Forest Owls are unlikely to prioritise utilisation of the subject site over higher quality areas of habitat.

The subject site contains two trees containing relatively large hollows (>15 cm) at a suitable height for owl roosting, however they are in an exposed location at the Darley Street frontage. The Barking Owl prefers to roost near waterways and wetlands, whilst the Powerful Owl typically nests in dense gully forests, none of which are present within the subject site. Subsequently, the subject site is only likely to provide low quality foraging habitat for the assessed species.

As such, the subject site only contains a small area of poor quality foraging habitat to be potentially impacted by a future DA. This area of habitat is not considered important for the long-term survival of these species within the locality. A small area of habitat will be retained within the subject site, and the surrounding landscape offers large areas of higher quality habitat. Subsequently, the project is not considered to have an adverse impact on the lifecycle of this species such that a viable local population is likely to be placed at risk.

- b. in the case of an endangered ecological community or critically endangered ecological community, whether the proposed development or activity:
  - *i. is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or*
  - *ii. is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction,*

### Not applicable.

- c. In relation to the habitat of a threatened species or ecological community:
  - *i.* the extent to which habitat is likely to be removed or modified as a result of the proposed development or activity, and
  - *ii.* whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed development or activity, and
  - iii. the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community in the locality,



A ~0.28ha area of marginal large owl foraging habitat may be removed from the subject site as part of a future DA. Additionally, a 0.07 ha area of vegetation is proposed to be retained with a further 0.09 ha of exotic vegetation to be regenerated into PWSGF. The potential impacts to habitat are expected to be localised and will not cause a substantial change in the extent of the habitat for these species, given the high quality habitat available in the surrounding landscape.

The removal of vegetation is unlikely to result in the fragmentation of an area of habitat for large forest owls as they are all highly mobile, aerial species which accesses resources over a large territory. Connectivity will remain throughout the subject site throughout the 0.12 ha PWSGF retention/revegetation area which interfaces with adjacent vegetation outside of the subject site. As such, the development will encroach slightly into the edge of existing foraging habitat, it will not isolate or fragment habitat. The potential habitat on the subject site represents only a very small area available to these species in the locality. As the species are highly mobile and access resources from across a large foraging range, the project is unlikely to decrease the movement of individuals and gene flow throughout the locality or within or between local populations. Accordingly, the project will not remove, modify, fragment or isolate important habitat.

Previous residential land use has resulted in the degradation of large forest owl habitat within the subject site over time. The habitat in question is small in area, degraded, bears a low degree of connectivity to higher quality habitat within the surrounding landscape and offers limited or zero breeding opportunities. Subsequently, habitat potentially impacted by a future DA is not considered important for the long-term survival of large forest owls within the locality.

d. whether the proposed development or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly),

The BC Act currently lists the following AOBVs:

- Gould's Petrel habitat;
- Little Penguin population in Sydney's North Harbour habitat;
- Mitchell's Rainforest Snail in Stotts Island Nature Reserve; and
- Wollemi Pine habitat.

The project is not located within or in proximity to the aforementioned AOBVs and is therefore not likely to have an adverse effect on any AOBVs.

e. whether the proposed development or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.

A future DA is expected to result in the following key threatening process:

• 'Clearing of native vegetation', as this reduces the area of habitat available for threatened species and communities.



The key-threatened process of 'Clearing of native vegetation' could potentially impact the foraging habitat for the assessed large forest owl species. However, the vegetation on the subject site is highly degraded, would not offer breeding opportunities and is not considered optimal foraging habitat for these species. The majority of the subject site has been previously cleared and is now dominated by exotic vegetation and is highly influenced by residential land use. A small area of habitat will be retained and regenerated in the subject site with the re-establishment of native understorey, which may provide higher quality habitat for owl prey species in the long term. Subsequently, clearing of native vegetation is not likely to significantly impact habitat for the assessed large forest owl species.

### Conclusion

Approximately 0.28 ha of largely exotic dominated, marginal foraging habitat will be removed within the subject site; however large areas of high-quality foraging areas are available within the surrounding landscape, including Ku-ring-gai Chase National Park, Warriewood Wetlands, Robert Dunn Reserve, Mona Vale Golf Club and Bayview Golf Club. Local populations of large forest owl species are unlikely to depend on the limited and degraded foraging resources contained within the subject site for their survival.

The habitat located within reserves of the surrounding area will remain in perpetuity and contain high habitat values, greatly exceeding the contextually small areas of habitat proposed to be removed within the subject site. As such, the project or an associated future DA is not likely to place a viable local population of these species at risk of extinction. Both species are highly mobile and are expected to move between areas of remaining habitat within the immediate vicinity of the subject site and wider area as part of their large territories. Nevertheless, a 0.12 ha retention/revegetation area will provide a small area of habitat within the subject site that will be managed under a VMP, potentially providing improved habitat for owl prey species in the long term.

The project is not likely to have a significant impact upon any of the assessed large forest owl species and subsequently a Biodiversity Development Assessment Report is not required based on this test of significance.

### **B.4. Grey-headed Flying-fox**

The Grey-headed Flying-fox has been assessed in the following Test of Significance:

a. in the case of a threatened species, whether the proposed development or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction

The Grey-headed Flying-fox is a highly mobile species that forages over a vast habitat range. The subject site does not contain a breeding camp, however there are camps located at Warriewood and Avalon which are 2km and 9km from the subject site respectively. Subsequently, the species would be expected to occasionally and opportunistically utilise the potential foraging resources within the subject site on a seasonal basis coinciding with flowering and fruiting events of native and exotic trees.

The potentially impacted 0.24 ha area of marginal foraging habitat comprises exotic trees, planted native trees and scattered trees associated with PWSGF. The species is highly mobile and forages over a large range centred


around breeding camps and would not depend on the marginal habitat of the subject site. Grey-headed Flyingfoxes within the vicinity of the subject site would have access to much larger, higher quality foraging areas. The subject site is in close proximity to the Ku-ring-gai Chase National Park, Robert Dunn Reserve, Warriewood Wetlands, Bayview Golf Club and Mona Vale Golf Club, all containing large quantities of higher quality and more varied seasonal foraging resources. Subsequently, the species is unlikely to prioritise utilisation of the subject site over higher quality and larger areas of habitat.

The habitat to be potentially impacted by a future DA will not be important for the long-term survival of the species within the locality due to its degraded condition and small area. A small area of habitat will be retained within the subject site, and the surrounding landscape offers large areas of higher quality habitat. Subsequently, the project is not considered to have an adverse impact on the lifecycle of this species such that a viable local population is likely to be placed at risk.

- b. in the case of an endangered ecological community or critically endangered ecological community, whether the proposed development or activity:
  - *i. is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or*
  - *ii. is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction,*

### Not applicable.

- c. In relation to the habitat of a threatened species or ecological community:
  - *i.* the extent to which habitat is likely to be removed or modified as a result of the proposed development or activity, and
  - *ii.* whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed development or activity, and
  - iii. the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community in the locality,

Approximately 0.24 ha of degraded vegetation canopy may be removed from the subject site as part of a future DA. This habitat comprises marginal foraging habitat for Grey-headed Flying-fox that may forage on blooms and fruit of trees within the subject site on an opportunistic, occasional or seasonal basis. Additionally, a 0.07 ha area of vegetation is proposed to be retained and a further 0.09 ha of exotic vegetation to be regenerated into PWSGF. The potential impacts to habitat are expected to be localised and will not cause a substantial change in the extent of the habitat for these species, given the high quality habitat available in the surrounding landscape and the high mobility of the species.

The removal of vegetation is unlikely to result in the fragmentation of an area of habitat for the Grey-headed Flying-fox which is a highly mobile, aerial species capable of accessing resources over a large area. Connectivity will remain throughout the subject site throughout the 0.12 ha PWSGF retention/revegetation area which



interfaces with adjacent vegetation outside of the subject site. A future DA may encroach into the edge of existing foraging habitat but it will not isolate or fragment habitat. The potential habitat within the subject site represents only a very small area available to these species in the locality. As the species are highly mobile and access resources from across a large foraging range, the project is unlikely to decrease the movement of individuals and gene flow throughout the locality or within or between local populations. Accordingly, the project will not remove, modify, fragment or isolate important habitat.

Previous residential land use has resulted in the degradation of potential habitat within the subject site over time. The habitat in question is small in area, degraded and bears a low degree of connectivity to higher quality habitat within the surrounding landscape and does not currently offer breeding opportunities for the species. Subsequently, habitat potentially impacted by a future DA is not considered important for the long-term survival of Grey-headed Flying-fox within the locality.

d. whether the proposed development or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly),

The BC Act currently lists the following AOBVs:

- Gould's Petrel habitat;
- Little Penguin population in Sydney's North Harbour habitat;
- Mitchell's Rainforest Snail in Stotts Island Nature Reserve; and
- Wollemi Pine habitat.

The project is not located within or in proximity to the aforementioned AOBVs and is therefore not likely to have an adverse effect on any AOBVs.

e. whether the proposed development or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.

The project could result in the following key threatening process:

• 'Clearing of native vegetation', as this reduces the area of habitat available for threatened species and communities.

The key-threatened process of 'Clearing of native vegetation' may potentially impact the foraging habitat for the Grey-headed Flying-fox. However, the vegetation on the subject site is highly degraded and is not considered optimal foraging habitat for the species. The majority of the subject site has been previously cleared and is now dominated by exotic vegetation and is highly influenced by residential land use. A small area of habitat will be retained and regenerated in the subject site with the re-establishment of native understorey, which may provide higher quality habitat compared to current conditions in the long term. Subsequently, clearing of native vegetation is not likely to significantly impact habitat for the assessed large forest owl species.

### Conclusion

Approximately 0.24 ha of largely exotic dominated, marginal foraging habitat will be removed within the subject site; however large areas of high-quality foraging areas are available within the surrounding landscape, including Ku-ring-gai Chase National Park, Warriewood Wetlands, Robert Dunn Reserve, Mona Vale Golf Club and Bayview Golf Club. Local populations of the Grey-headed Flying-fox are unlikely to depend on the limited and degraded habitat resources contained within the subject site for their survival.

The habitat located within reserves of the surrounding area will remain in perpetuity and will continue to provide high habitat values, greatly exceeding the contextually small areas of habitat potentially impacted by a future DA. As such, a future DA is not likely to place a viable local population of the species at risk of extinction. The Grey-headed Flying-fox is highly mobile and is capable of moving between areas of remaining habitat within the immediate vicinity of the subject site and wider area. Nevertheless, a 0.12 ha retention/revegetation area will provide a small area of habitat within the subject site that will be managed under a VMP.

The project is not likely to have a significant detrimental impact upon the Grey-headed Flying-fox and subsequently a Biodiversity Development Assessment Report is not required based on this test of significance.



# FIGURES





Figure 1. Vegetation communities and indicative Pittwater Spotted Gum Forest (PWSGF) retention and revegetation areas (to be confirmed at the DA stage)

**Attachment B – Flooding and Stormwater** 

**Drainage - Peer Review** 





Solve Property PO BOX 406 CRONULLA NSW 2230

Job No. GX618

Attn: Mr Brendan Nelson

16 February 2024

### Re: 159-167 Darley Street West, Mona Vale

Dear Sir

As requested, we have undertaken a peer review of a number of flooding and drainage related documents that have been prepared in relation to the proposed rezoning of land at 159-167 Darley Street West, Mona Vale (**planning proposal**), with the aim of the rezoning being to facilitate the removal of four existing residential dwellings and the construction of new medium density residential type development (**proposed development**).

### 1. Background

The Department of Planning and Environment (**DPE**) on behalf of the Sydney North Planning Panel, issued a Gateway Determination on 8 September 2023 stating that an amendment to the *Pittwater Local Environmental Plan 2014* to rezone 159-167 Darley Street West, Mona Vale (**subject allotments**) from R2 Low Density Residential to R3 Medium Density Residential should proceed subject to the following conditions:

- 1. Prior to community consultation the planning proposal (and any supporting studies) are to be updated to:
  - (a) assess the proposal against up to date SEPPs and Ministerial 9.1 Directions, and in particular Direction 3.1 (Conservation Zones), Direction 4.1 (Flooding) and Direction 5.1 (Integrating Land Use and Transport).
  - (b) consider the proposal against the Mona Vale Place Plan, having regard to its current status
  - (c) include a new Affordable Housing clause in the PLEP with associated Affordable Housing Contributions Scheme Map, consistent with clause 6.11 (Affordable Housing) of the Warringah LEP 2011
  - (d) identify an affordable housing contribution rate of 5% for the site on the proposed Affordable Housing Contributions Scheme Map.
- 2. Public exhibition is required under section 3.34(2)(c) and clause 4 of Schedule 1 to the Act as follows:
  - (e) the planning proposal is categorised as standard as described in the Local Environmental Plan Making Guidelines (Department of Planning and Environment, 2023) and must be made publicly available for a minimum of 20 working days; and
  - (f) the planning proposal authority must comply with the notice requirements for public exhibition of planning proposals and the specifications for material that must be made publicly available along with planning proposals as identified in Local Environmental Plan Making Guidelines (Department of Planning and Environment, 2023).

Level 6 Suite 601 8 West Street North Sydney NSW 2060 Principal: **S A Button** BE(Hons) MEngSc p: 02 9929 4466 email: lacewater@bigpond.com.au Lyall & Associates Consulting Water Engineers ABN 93 257 653 251 trading as Lyall & Associates

- 3. Consultation is required with the following public authorities and government agencies under section 3.34(2)(d) of the Act and/or to comply with the requirements of applicable directions of the Minister under section 9 of the EP&A Act:
  - (a) Relevant utility providers, including Ausgrid and Sydney Water.
  - (b) Environment and Heritage Group
  - (c) NSW State Emergency Service
  - (d) Biodiversity and Conservation Division
  - (e) Transport for NSW
  - (f) Greater Cities Commission
  - (g) Northern Beaches Council.

Each public authority is to be provided with a copy of the planning proposal and any relevant supporting material via the NSW Planning Portal and given at least 30 days to comment on the proposal.

- 4. A public hearing is not required to be held into the matter by any person or body under section 3.34(2)(e) of the EP&A Act. This does not discharge Council from any obligation it may otherwise have to conduct a public hearing (for example, in response to a submission or if reclassifying land).
- 5. The LEP should be completed on or before 17 July 2024

While it is understood that the Applicant has complied with Conditions 1, 2 and 3 above, Lyall & Associates has been requested to:

- a) undertake a peer review of the flooding and drainage related documents that have been prepared in support of the planning proposal and advise on their suitability; and
- b) consider the flooding and drainage related issues that have been raised during the consultation period and provide professional advice in relation to their appropriateness or otherwise to the planning proposal, as well as any measures which could be incorporated into the design of the proposed development to better address these issues.

The following sections of this letter set out the findings of the peer review, as well as recommendations relating to measures which could be incorporated into the design of the proposed development to better address issues raised during the consultation period.

#### 2. Available Documents

The following documents were made available for the purpose of undertaking the peer review:

- Report prepared by AECOM entitled "159-167 Darley Road Mona Vale Stormwater Management Strategy" and dated 30 June 2021 (AECOM, 2021)
- Gateway Determination issued by the Department of Planning and Environment's dated 8 September 2023 (Gateway Determination)
- Letter from AECOM entitled "Stormwater Management Strategy 159-167 Darley Street West, Mona Vale" and dated 10 October 2023 (AECOM, 2023)
- Submission from the NSW State Emergency Service (NSW SES) dated 28 November 2023 (NSW SES submission)
- Submission from Northern Beaches Council (NBC) dated 12 December 2023 (NBC submission)
- Submission from the Department of Planning and Environment Environment and Heritage Group (DPE-EHG) dated 14 December 2023 (DPE-EHG submission)
- Submissions from community representatives (**public submissions**)

The flood mapping contained in the report entitled "*McCarrs Creek, Mona Vale and Bayview Flood Study Review*" (**Royal Haskoning DHV, 2017**) which was prepared on behalf of NBC also formed part of the peer review. It is noted that the flood mapping contained in Royal Haskoning DHV, 2017 has been adopted by NBC for planning purposes. Extracts from the flood maps that are contained in Royal Haskoning DHV, 2017 as they relate to the subject allotments are set out in **Annexure A** of this letter.

The screen shot below is taken from NBCs interactive online Flood Hazard Map showing the extent of Low, Medium and High Flood Risk Precincts in the vicinity of the subject allotments. NBCs web site defines the three flood risk precincts as follows:

- The Medium Flood Risk Precinct is equivalent to the Flood Planning Area, and covers all flood prone land which is affected by the 1% Annual Exceedance Probability (AEP) flood (equivalent to the 1 in 100 year flood) with a freeboard added.
- > The **High Flood Risk Precinct** lies within the Medium Flood Risk Precinct, and covers flood prone land which is subject to a high hydraulic hazard.
- The Low Flood Risk Precinct covers flood prone land affected by the Probable Maximum Flood (PMF) but which is outside the Medium Flood Risk Precinct. The PMF is equivalent to the largest ever conceivable flood.

By inspection of Council's online Flood Hazard Map (shown below), a portion of the subject allotments at their rear falls within the extent of the Medium Flood Risk Precinct, while a very small portion falls within the Low Flood Risk Precinct.



### 3. Brief Description of Proposed Development

The proposed development will comprise two large two-storey residential type buildings (denoted Buildings A and B) which will be constructed in 159 to 165 Darley Street West, as well as three smaller two-storey townhouses (denoted Buildings C, D and E) which will be constructed in 167 Darley Street West. Vehicular access will be via two driveways which will extend off Darley Street West between the three sets of buildings. **Annexure B** of this letter contains a set of architectural drawings showing the key features of the proposed development.

### 4. Brief Description of Proposed Stormwater Drainage Strategy

The proposed stormwater drainage strategy comprises the following key features:

- a) A minor realignment of the existing overland flow path at the rear of the subject allotments so as to be clear of Building B.
- b) The creation of a local depression along the line of the realigned overland flow path within which a grated inlet pit will be constructed. The provision of a stormwater drainage line comprising a series of 375 mm diameter pipes which will extend to Darley Street West beneath the access driveway which will service Buildings B, C, D and E. The new 375 mm diameter stormwater drainage line would connect to NBCs existing stormwater drainage system at a sag inlet pit that is located at the head of the adjacent cul-de-sac.
- c) The construction of an embankment at the rear of Building E which will divert flow which exceeds the capacity of the new 375 mm dimeter stormwater drainage line toward Darley Street West via the access driveway which will service Buildings B, C, D and E.

**Annexure C** of this letter contains a plan that has been extracted from AECOM, 2021 showing the key features of the proposed stormwater drainage strategy.

### 5. Review of Proposed Stormwater Drainage Strategy

The peak 1% Annual Exceedance Probability (**AEP**) flow in the overland flow path where it enters and exits the rear of the subject allotments is given in AECOM, 2021 as 0.5 m<sup>3</sup>/s and 0.9 m<sup>3</sup>/s, respectively, with a peak flow of between about 0.3 m<sup>3</sup>/s and 0.4 m<sup>3</sup>/s identified as being present as more dispersed type flow.

While the "rainfall-on-grid" type approach to design flood estimation adopted by AECOM, 2021 is consistent with the approach adopted in Royal Haskoning DHV, 2017, by inspection of the figures presented in AECOM, 2021 it would appear that the blocking effects of buildings that are presently in the upslope catchment, several of which are quite large, have not been taken into account. It's therefore possible that the peak flows presented in AECOM, 2021 are a conservative estimate of the total flow in the overland flow path where it runs through the rear of the subject allotments.

Figure 6 and Table 2 in AECOM, 2021 show that the depth of flow along the internal access driveway which would service Buildings B, C, D and E would be maximum of 0.53 m in a 1% AEP storm event, increasing to 0.78 m in the PMF event. Based on these depths and their corresponding flow velocities, conditions on the access driveway would correspond to a H3 flood hazard classification, meaning conditions would be unsafe for vehicles, small children and the elderly. While depth of flow would be less for more frequent storm events, conditions would still be unsafe for small vehicles during storms which result in greater than 0.3 m depth of inundation along the access driveway.

The diversion of flow away from 8 Kunari Place and onto Darley Street West has the potential to exacerbate flooding conditions in 12 Kunari Place, as both available ground and LiDAR based survey shows that natural surface levels fall toward this property from the head of the cul-de-sac in Darley Street West.

It is noted that we have been advised that due to the presence of boundary walls/fencing along the rear of the 6, 8 ad 10 Kunari Place, overland flow initially ponds in 167 Darley Street West, before preferentially discharging toward Darley Street West where it then discharges to Kunari Place via the public thoroughfare that links the two roadways (i.e. it does not discharge directly into 8 Kunari Place as shown in Royal Haskoning DHV, 2017 and AECOM, 2021). While this may be the case, the natural fall of the land is into 8 Kunari Place and absent the boundary walls/fencing, this is the direction the overland flow would take during storm event. It should be noted that even without redevelopment of the subject allotments, there is an existing risk of flooding to 8 Kunari Place as a result of development in the catchment above. Redevelopment of the site presents an opportunity to improve this existing situation for the residents of 8 Kunari Place.

In addition to the diversion of overland flow onto Darley Street West via the new access driveway, the connection of the new 375 mm diameter stormwater drainage line to NBCs existing stormwater drainage line would result in it surcharging more frequently, thereby potentially exacerbating flooding conditions in 12 Kunari Place. This can be avoided with modification to the proposed stormwater drainage strategy resulting in an overall improvement to the residents of Kunari Place.

Recommendations for improvements to the flood modelling that has been undertaken in support of the planning proposal, as well as recommended modifications to the proposed stormwater drainage strategy are set out in **Section 8** of this letter, noting that these recommendations also seek to address comments made during the consultation period.

### 6. Assessment of Planning Proposal Against Direction 4.1 – Flooding

**Table 1** at the end of this letter sets out the findings of an assessment that was undertaken in regards compliance of the planning proposal with the requirements of Direction 4.1 – Flooding.

The key finding of the assessment was that the planning proposal is generally consistent with the requirements of Direction 4.1 - Flooding, and where it is considered to be inconsistent, the inconsistencies would be of minor significance provided the changes to the proposed stormwater drainage strategy that are described in **Section 8** of this letter are incorporated in any future Development Application for the proposed development.

### 7. Summary of Flooding and Drainage Related Issues Raised During Consultation Period

**Table 2** at the end of this letter summarises the flooding and drainage related issues that have been raised during the consultation period, as well as whether we agree or disagree with the comment and our reasons why.

### 8. Recommendations

Should the land be rezoned to R3 Medium Density, we note that redevelopment will be subject to a future development application to the consent authority (NBC). In order to address the flooding and drainage related issues that have been identified as part of the public consultation and peer review process, we are comfortable that the consent authority can ensure that the matters are satisfactorily resolved in accordance with clause 5.22 of the Pittwater LEP 2014 and the NBC Development Control Plan.

On this basis, we recommend that the planning proposal be approved subject to the following actions being implemented at Development Application stage:

- i. The flood model be updated to:
  - a. take account of the blocking effects of buildings that are located upslope of the subject allotments;
  - b. include details of the new stormwater drainage line;
  - c. define the nature of flooding under pre- and post-development conditions for storms with intensities of 20, 10, 5 and 1% AEP, as well as the PMF event.
- ii. The results of the flood modelling are to be presented in a clear and consistent manner that makes it easy for the reader to compare flood behaviour under pre- and post-development conditions.
- iii. Figures need to be prepared for each of the aforementioned design storm events showing the following as a minimum:
  - a. the indicative extent and depth of inundation under pre- and post-development conditions;
  - b. maximum flow velocities under pre- and post-development conditions;
  - c. the impact that the proposed development will have on flood behaviour (peak flood levels and maximum flow velocities), noting they need to show changes in peak flood level as small as 0.01 m; and
  - d. the H1-H6 flood hazard vulnerability classification under pre- and post-development conditions
- A landscaped feature be made of the overland flow path and that a headwall incorporating appropriate safety measures be adopted at the inlet of the new stormwater drainage line.
   This will ensure that flow conveyed in the overland flow path can enter the new stormwater drainage line.
- v. A 300 mm freeboard be provided to the 1% AEP in the design of the modified overland flow path where it runs through the subject allotments. This will ensure that all new development is located outside the extent of the flood planning area.
- vi. The new stormwater drainage line be sized to convey the peak 1% AEP flow, with an appropriate blockage factor applied to the aforementioned inlet headwall. This will remove overland flow along the access driveway for all storms up to the 1% AEP storm event.
- vii. Flow in excess of the new stormwater drainage line be permitted to discharge in the same direction as its currently takes (i.e. into 8 Kunari Place). This will prevent Buildings C, D and E from becoming high flood island, while maintaining existing flooding patterns in adjacent properties during storms rarer than 1% AEP.
- viii. Provision be made along the common boundary with 6, 18 and 10 Kunari Place for flow in excess of the capacity of the new stormwater drainage line to be conveyed overland onto Darley Street West and thence to Kunari Place via the public thoroughfare. This will manage overland flow that is not able to discharge to the adjacent properties in Kunari Place due to the blocking effects of existing boundary walls/fences.
- ix. The existing stormwater drainage line be upgraded downstream of the cul-de-sac in Darley Street West to cater for the 1% AEP flow discharging from the proposed development in addition to the flow in NBCs existing stormwater drainage line, with the outlet headwall shifted to a location downstream of 12 Kunari Place. This will ensure that flooding behaviour in 12 Kunari Place is made no worse as a result of the proposed development.

We trust that the findings of the peer review will assist you in progressing the planning proposal for the proposed development, noting that the recommendations set out above are consistent with the normal flood modelling requirements for a development application of this type. However, please do not hesitate to contact me should you have any queries or wish to discuss any aspect of this letter.

Yours faithfully Lyall & Associates Consulting Water Engineers

Scott Button Principal

TABLE 1 ASSESSMENT OF PLANNING PROPOSAL AGAINST REQUIREMENTS OF DIRECTION 4.1 - FLOODING

Direction 4.1 – Flooding Requirement	Findings of Assessment
(1) A planning proposal must include provisions that give effect to and are consistent with:	
(a) the NSW Flood Prone Land Policy,	Provided the recommended measures set out in Section 8 of this letter are incorporated in the design of the proposed development, then we consider that the planning proposal is consistent with the NSW Plood Prone Land Policy as it seeks to reduce the risk of flooding on both and proposed development in areas that are subject to flooding.
(b) the principles of the Floodplain Development Manual 2005	Provided the recommended measures set out in Section 8 of this letter are incorporated in the design of the proposed development, then we consider that the planning proposal is consistent with the Floodplain Development Manual 2005 (and its replacement, the Flood Risk Management Manual 2023) as it.     is aimed at reducing the impact of flooding and flood liability on existing developed areas through flood mitigation works and measures     adopting a merit-based approach for all development decisions in the floodplain, taking into account social, economic and ecological factors, as well as flooding considerations
	<ul> <li>Imiting the potential for flood losses in all areas proposed for development or redevelopment by the application of ecologic ally sensitive planning and development controls.</li> </ul>
(c) the Considering flooding in land use planning guideline 2021, and	Provided the recommended measures set out in Section 6 of this letter are incorporated in the design of the proposed development, then we consider that the planning proposal is consistent with the land use planning guideline 2021 as it looks to manage the impact of flooding on both existing and new development over the full range of potential flood events.
(d) any adopted flood study and/or floodplain risk management plan prepared in accordance with the principles of the Floodplain Development Manual 2005 and adopted by the relevant council.	While the flood modelling that has been undertaken to date is generally consistent with the findings of Royal Haskoning DHV, 2017, further improvements are recommended in Section 8 of this letter.
(2) A planning proposal must not rezone land within the flood planning area from Recreation, Rural, Special Purpose or Conservation Zones to a Residential, Employment, Mixed Use, W4 Working Waterfront or Special Purpose Zones	As the land is currently zoned, R2 Low Density Residential, this clause does not apply,
(3) A planning proposal must not contain provisions that apply to the flood planning area which:	
(a) permit development in floodway areas	The planning proposal seeks to make a minor modification to the alignment of the floodway area, noting that no new development will be located in the realigned floodway.
(b) permit development that will result in significant flood impacts to other properties,	Provided the recommended measures set out in Section 8 of this letter are incorporated in the design of the proposed development, then in our opinion it would result in an improvement in flooding conditions that are presently experienced in the existing development.
(c) permit development for the purposes of residential accommodation in high hazard areas	The planning proposal does not include residential accommodation in high hazard areas.
(d) permit a significant increase in the development and/or dwelling density of that land,	The planning proposal does not involve an increase in the development and/or dwelling density within the extent of the flood planning area.
(e) permit development for the purpose of centre-based childcare facilities, hostels, boarding houses, group homes, hospitals, residential care facilities, respite day care centres and seniors housing in areas where the occupants of the development cannot effectively evacuate	The planning proposal does not include any of these types of development.
(f) permit development to be carried out without development consent except for the purposes of exempt development or agriculture. Dams, drainage canals, levees, still require development consent	The planning proposal is seeking approval through the appropriate channels.
(g) are likely to result in a significantly increased requirement for government spending on emergency management services, flood mutigation and emergency response measures, which can include but are not limited to the provision of road infrastructure and utilities, or	The planning proposal will not result in a significantly increased requirement for government spending on emergency management services, flood mitigation and emergency response measures
<ul> <li>(h) permit hazardous industries or hazardous storage establishments where hazardous materials cannot be effectively contained during the occurrence of a flood event.</li> </ul>	The planning proposal does not comprise hazardous industries or hazardous storage establishments where hazardous materials cannot be effectively contained during the occurrence of a flood event

Cont'd Over

### TABLE 1 (Cont'd) ASSESSMENT OF PLANNING PROPOSAL AGAINST REQUIREMENTS OF DIRECTION 4.1 - FLOODING

Direction 4.1 - Flooding Requirement	Findings of Assessment
(4) A planning proposal must not contain provisions that apply to areas between the flood planning area and probable maximum flood to which Special Flood Considerations apply which:	
(a) permit development in floodway areas,	The planning proposal seeks to make a minor modification to the alignment of the floodway area, noting that no new development will be located in the realigned floodway.
(b) permit development that will result in significant flood impacts to other properties,	Provided the recommended measures set out in Section 8 of this letter are incorporated in the design of the proposed development, then in our opinion it would result in an improvement in flooding conditions that are presently experienced in existing development.
(c) permit a significant increase in the dwelling density of that land,	While the extent of the probable maximum flood will need to be determined once the flood modelling is updated based on the recommendations set out in Section 8 of this letter, it is not expected that the planning proposal will result in a significant increase in the development and/or dwelling dentity within the extent of the area which les between the flood planning area and the probable maximum flood (i.e. because the existing flow path in 8 Kunari Place generally lies outside the footprint of the new buildings).
(d) permit the development of centre-based childcare facilities, hostels, boarding houses, group homes, hospitals, residential care facilities, respite day care centres and seniors housing in areas where the occupants of the development cannot effectively evacuate.	The planning proposal does not include any of these types of development.
(e) are likely to affect the safe occupation of and efficient evacuation of the lot, or	Provided the recommended measures set out in Section 8 of this letter are incorporated in the design of the proposed development, then the planning proposal will not affect the safe occupation of and efficient evacuation of the lot
(f) are likely to result in a significantly increased requirement for government spending on emergency management services, and flood mitigation and emergency response measures, which can include but not limited to road infrastructure, flood mitigation infrastructure and utilities.	Provided the recommended measures set out in Section 8 of this letter are incorporated in the design of the proposed development, then the planning proposal will not result in a significantly increased requirement for government spending on emergency management services, and flood mitigation and emergency response measures, which can indude but not limited to road infrastructure, flood mitigation infrastructure and utilities,
(5) For the purposes of preparing a planning proposal the flood planning area must be consistent with the principles of the Floodplain Development Manual 2005 or as otherwise determined by a Floodplain Risk Management Study or Plan adopted by the relevant council.	Reference is made in this letter to both the flood planning area and extent of the probable maximum flood that is defined in Royal Haskoning DHV, 2017 and these have been relied upon for undertaking the consistency assessment set out above.

#### TABLE 2 SUMMARY OF FLOODING AND DRAINAGE RELATED ISSUES RAISED DURING CONSULTATION PERIOD

Respondent	Issue	Comment
	> The new overland flow path along the driveway will be unsafe for small vehicles during a storm with an Annual Exceedance probability (AEP) of 1 per cent.	Agree. Refer Section 8 of this letter for recommended approach to addressing this issue.
	The new overfand flow path along the driveway would lead to the creation of a high flood island whereby the occupants of buildings C, and E would be unable to safely evacuate from at the 1% AEP flood event, noting smaller events have not been modelled.	Agreed, although duration of inundation along the access driveway would be relatively short, thereby reducing the flood risk to accupants of Buildings B, C, D and E. Refer Section 7 of this letter for recommended approach to addressing this issue.
	> The proposed stormwater drainage was not included in the flood modelling.	> Agree. Refer Section 8 of this letter for recommended approach to addressing this issue.
DPE-EHG	> The flood impact mapping should be updated to show impacts greater than 0.01 m.	> Agree. Refer Section 8 of this letter for recommended approach to addressing this issue.
	> Mapping for hazard categories H1-H6 should be provided.	> Agree. Refer Section 8 of this letter for recommended approach to addressing this issue.
	Surrounding existing buildings should be included in the flood modelling to improve accuracy.	> Agree, Refer Section 8 of this letter for recommended approach to addressing this issue.
	Maps for existing and proposed conditions should use the same level of transparency to aid comparison between results.	Agree. Refer Section 8 of this letter for recommended approach to addressing this issue.
	The planning proposal is inconsistent with Local Planning Direction 4.1 – Flooding in that it permits additional development in floodway areas	Disagree. The overland flow path will be realigned so that it is located in a landscaped area at the rear of the subject allotments, well clear of the proposed buildings. The flood maps in Royal Haskoning DHV_2017 (refer Annexure A of this letter for extracts) show that the intermittent floodway areas of a low hazard nature and as such could be appropriately modified as part of any future development within the subject allotments.
Northern Beaches Counci <b>l</b>	> The planning proposal is inconsistent with Local Planning Direction 4.1 – Flooding in that it substantially increases by over 300% the dwelling density in the Flood Planning Area	Disagree. The proposed realignment of the overland flow path will ensure that there are no habitable rooms located within the extent of the Flood Planning Area.
	The planning proposal is inconsistent with Local Planning Direction 4.1 – Flooding in that it has not been demonstrated that the increase of the probable maximum flood on 155 Darley Street can be mitigated	Agree. While the proposed development will alter flooding patterns when compared to present day conditions, given the minor nature of the overland flow path, its diversion onto Darley Street West is unlikely to result in significant impacts to other properties during storms more intense than 1% AEP. That said, this will need to be demonstrated as part of any future Development Application.
	The planning proposal needs to be considered against the relevant Ministerial Section 9.1 Directions, including 4.1 – Flooding and is consistent with the NSW Flood Prone Land Policy as set out in the Flood Risk Management Manual 2023 and supporting guidelines, including the Support for Emergency Management Planning.	Agree. The planning proposal is considered to generally be consistent with Directions 4.1 – Flooding, and where it isn't, the inconsistencies are considered to be of minor significance.
NSW SES	Consider undertaking sensitivity modelling for the case of localised mounding failure in diverting flow from neighbouring property and recommend discussing with the DPE EHG regarding potential impacts on neighbouring properties.	Disagree. Given the minor nature of the overland flow path, the likelihood of failure is considered to be very low. Furthermore, any failure of the diversion mound would only act to restore the overland flow path that is shown on NBCs flood mapping.
	Ensure that driveway entry to the under-croft parking and garages is situated above the PMF to reduce risk to life and property.	> Agree. This has been demonstrated by the Applicant.
	Seek further information to understand the risk to life and property, including the maximum length of time for inundation or isolation of the site	> Agree. This information can be provided as part of the future Development Application

Cont'd Over

#### TABLE 2 (Cont'd) SUMMARY OF FLOODING AND DRAINAGE RELATED ISSUES RAISED DURING CONSULTATION PERIOD

Respondent	Issue	Comment		
	Increased flood risk likely to affect the creek bordering Bayview Golf Course.	Disagree. The flow discharging from the proposed development represents a small portion of the total flow in Cahill Creek where it runs through Bayview Golf Course. As a result, the minor change in the route overland flow takes on its way to Cahill Creek will not increase the flood risk in the receiving drainage system. NBCs Development Control Plan includes measures which are aimed at mitigating the impact that new development would otherwise have on the rate flow discharges from a site.		
	Proposal is likely to adversely affect the use of Bayview Golf Club due to additional flooding from redirected stormwater from the development site.	Disagree. Both piped and overland flow will discharge the same receiving drainage line in the golf course, so flooding conditions would generally remain unchanged as a result of the proposed development.		
Public Submissions	Stormwater/flooding effects relate to a 'flawed' Stormwater Management Strategy for the proposed development causing concern for potential flood risk	Agree. The proposal to connect the new 375 mm diameter stormwater drainage pipe to NBCs existing stormwater drainage system in Darley Street West will result in it surcharging more frequently, thereby potentially adversely impacting flooding conditions in 12 Kunari Place. The diversion of overland flow directly onto Darley Street West via the new access driveway also has the potential to adversely impact flooding conditions in 12 Kunari Place. Refer Section 8 of this letter for recommended approach to addressing this issue.		
	> Area subject to flooding - more hard surfaces will worsen this.	Disagree. NBCs Development Control Plan includes measures which are aimed at mitigating the impact that new development would otherwise have on the rate flow discharges from a site.		
	Overdevelopment will exacerbate existing flooding issues - redirecting more overflow to the golf course will cause major safety issues for the neighbourhood.	Disagree. The flow discharging from the proposed development represents a small portion of the total flow in Cahili Creek where it runs through Bayview Golf Course. As a result, the minor change in the route overland flow takes on its way to Cahill Creek will not increase the flood risk in the receiving drainage system. NBCs Development Control Plan includes measures which are aimed at mitigating the impact that new development would otherwise have on the rate flow discharges from a site.		

ANNEXURE A

EXTRACTS FROM ROYAL HASKONING DHV, 2017



Subject allotments are subject to depths of inundation that are generally less than 0.5 m during a 1% AEP storm event, and only then at their rear (Source: Figure A.5B of Royal Haskoning, 2017)



Subject allotments are subject to depths of inundation that are generally no greater than 0.5 m during the PMF event, and only then at their rear (Source: Figure A.8B of Royal Haskoning, 2017)



Subject allotments are subject low hazard flooding during a 1% AEP storm event, and only then at their rear (Source: Figure A.13B of Royal Haskoning, 2017)



Subject allotments are subject to intermediate hazard flooding during a PMF event, and only then at their rear (Source: Figure A.14B of Royal Haskoning, 2017)



The overland flow path in the rear of the subject allotments is identified as a combination of floodway, flood storage and flood fringe areas during the PMF event (Source: Figure A.16B of Royal Haskoning, 2017



Subject allotments are identified as in either the Medium (yellow) and Low (green) Flood Risk Precinct (Source: Figure A.25B of Royal Haskoning, 2017)



A relatively portion of the subject allotments at their rear is identified as Flood Planning Area (Source: Figure A.26B of Royal Haskoning, 2017)



### ANNEXURE B

### ARCHITECTURAL DRAWINGS SHOWING KEY FEATURES OF PROPOSED DEVELOPMENT

### **CONCEPT DESIGN**

159-167 DARLEY STREET WEST, MONA VALE LOT 1,2,3,4 & 5/DP11108



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Level 1, 1 Chandos Street	GILES	Project:	$\frown$	Status:	Drawing: 2
ST LEONARDS NSW 2065 Giles Tribe Pty Ltd	UILLS	CONCEPT PLAN	(	PLANNING PROPOSAL	COVER PAGE 🚊
P o1 2 72o4 5005	TDIRE	159-167 DARLEY STREET WEST	1	Job Ref: Scale: @	Drawing No: Rev. 🙃 :
E gtaßgilestribe.com.au ABN 50 001259 507		MONA VALE	$\smile$	19016 Date: 05/29 21 Drawn: Author	A 000
Nominated Architects: Mark & Broadley (\$823) Stuart D H	Hill (6459) This drawing is copyright and must not be retained, copied or used without the c	ensent of Giles Tribe Architects.			

















AREA CALCULATION - C.O.S



AREA CALCULATION - DEEP SOIL

SITE AREA: 6123.461M<sup>2</sup>

COMMUNAL OPEN SPACE

REQUIREMENT MIN.25% OF SITE AREA, MIN. DIMENSION 3M

DEEP SOIL AREA

REQUIREMENT MIN.15% OF SITE AREA, MIN. DIMENSION 6M]

BUILDING A&B (38 APARTMENTS) SOLAR ACCESS

#### REQUIREMENT

MIN. 70% OF UNITS RECEIVE MIN. 2 HR OF SOLAR ACCESS BETWEEN 9AM-3PM ON 21 JUNE

MAX. 15% OF UNITS RECEIVE NO DIRECT SOLAR ACCESS BETWEEN 9AM-3PM ON 21 JUNE

#### CROSS VENTILATION

#### REQUIREMENT

MIN. 60% OF UNITS NEED TO BE CROSS VENTILATED

#### PROVIDED

PROVIDED

PROVIDED

PROVIDED

1756.998M2[28.7%]

1772.417M<sup>2</sup>[28.9%]

24 OF 38 UNITS (63.15%) ARE CROSS-VENTILATED UNITS

34 OF 38 UNITS (89.5%) RECEIVE A MINIMUM 2 HR OF SOLAR ACCESS BETWEEN 9AM-3PM ON 21 JUNE

2 OF 38 UNITS (5.3%) RECEIVE NO DIRECT SOLAR ACCESS BETWEEN 9AM-3PM ON 21 JUNE

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Level 1, 1 Chandos Street ST LEONARDS NSW 2065 Biles Tribe Pty Ltd		GILES		PLANNING PROPOSAL	
P o1 2 92o4 5005 E gtaßgilestribs com au ABN 50 801259 507			159-167 DARLEY STREET WEST MONA VALE	Job Ref: Scale: 1:1000 043 Date: 0x/28 21 Drawm: Author	Drawing No: Rev 🖸 :
Nominated Architects:	Mark & Broadley [5823] Stuart D Hill (6459]	This drawing is copyright and must not be retained, copied or used without the	e consent of Giles Tribe Architects.		









### ANNEXURE C

### EXTRACT FROM AECOM, 2021 SHOWING KEY FEATURES OF PROPOSED STORMWATER DRAINAGE STRATEGY



Page B1

**Attachment C - Construction Cost Estimates** 







29 September 2023

Andrew Thurlow

Magnolia Views Property Pty Ltd

Andrewthurlow1@outlook.com

Dear Sir

### 159 - 167 DARLEY STREET MONA VALE ORDER OF COSTS BUDGET ESTIMATE

Please find attached our Order of Costs Budget Estimate totalling **\$44,506,408 (Excl GST) inclusive** of contingencies and escalation.

Specifically, we have allowed for 5% design development contingency to be utilized during the design development period between now and construction. We have also allowed a further 5% construction contingency which is standard practice for the start of the construction period to cover unforeseen risks. It is also required to meet most financier's requirements.

The estimate has been prepared on benchmark rates for similar projects that have been completed and therefore including escalation during construction. These benchmarking rates are required to be escalated to the start of construction, which is for the basis of this estimate, we have assumed to be mid-2025.

While we are not programmers, WT are regularly required to benchmark overall program durations as part of financier roles. A project of this nature and size would generally require a construction duration of 22-24 months.

Yours faithfully

IAN MENZIES NATIONAL DIRECTOR WT

WT REF: PR-021659 - 159 - 167 Darley Street Mona Vale





## 159-167 DARLEY STREET MONA VALE DEVELOPMENT BUDGET ESTIMATE NO.1

27 September 2023

150 167 Deview Street Mane Vale					
159-167 Darley Street Mona Vale					
Preliminary Budget Estimate					
29/09/2023					
	G.B.A.	Quantity	UNIT	RATE/m2	EXTENSION
ELEMENT	m2	m2		\$	\$
Demolition / Site Prep / Temp Works / Sservices Diversions / Relocations					
Allow to Demolish existing buildings Provisional allowance for Hazardous Building Material Removal		1	Item Item	142,800 50,000	142,800 50,000
Allow to cap and disconnect incoming services		1	Item	30,000	30,000
Extra over for services relocations (excluded - assume no major relocations requied)				Excl	Exc
Allow to strip existing site		1	ltem	244,880	244,880
Allow for incoming services connections (Included in Infrastructure Costs Below) Allow for underpinning adjoining structures				Incl Excl	Inc Exc
Subtotal Demo					467,680
Basement incl Substructure					
Basement					
Bulk excavation		8,088	m3	50	404,415
E.O. for excavation in rock (assume 20%) - Minimal rock advised Allow for disposal of GSW (assume 150mm across basement area)		1,618 662	<u>m3</u> t	75 270	121,325 178,678
Allow for disposal of GSW (assume roomin across basement area) Allow for disposal of contaminated materials		002	L	Excluded	Excluded
E.O. for dewatering		1	item	50,000	50,000
Allow for Shoring - assume 450mm dia. contiguous secant shoring piles including	_	1,020	m2	1,300	1,326,614
capping beam and shortcrete - allow 1.5mtr socket TBA					
Allow for footings Allow for hydrostatic slab on ground - assume there is a water table issue		2,451 2,451	m2 m2	150 500	367,650 1,225,500
Allow for Slab on Ground - incl. above		2,401	1112	Incl.	1,225,500 Incl.
Allow for suspended slab - N/A				N/A	N/A
Allow for fitout to basement area (service, walls, columns, etc.)	2,451		GBA	640	1,568,640
Ground Floor Basement Entry Ramp (area assumed) External Façade - Allow for External Walls to last		100	m2	750 700	75,000
Allow for roller shutter - carpark		162 2	m2 Item	20,000	113,252 40,000
Allow for roller shutter - townhouse		3	Item	10,000	30,000
Subtotal Basement	2,451		GBA	2,244	5,501,074
		80	Cars	\$ 68,763 / car	
Residential - Aparments		31	m2/car		
Aparments Building A&B - GF Lobby	140		GBA	3,500	490,000
Aparments Building A&B - GF and L1	4,032		GBA	3,100	
Aparments Building A&B - External Façade - Allow for External Walls		2,388	m2 m2	1,200 900	2,865,600
Aparments Building A&B - Allow for Roof Aparments Building A&B - Residential Core - 4 Lifts from Basement to Level 1		2,139 4	No.	250,000	
Subtotal Residential - Apartments	4,172		GBA	4,501	18,779,900
		38	units	494,208	
Residential - TownHouse		110	m2/unit		
TownHosue C,D&E - GF and L1	582		GBA	3,800	2,211,549
TownHosue C,D&E - External Façade - Allow for External Walls		615	m2	Incl.	Incl.
TownHosue C,D&E - Allow for Roof		341	m2	Incl.	Incl.
TownHosue C,D&E - Residential Core - Assume no private lifts Subtotal Residential - TownHouse	582		GBA	Incl. 3,800	Incl. 2,211,549
Subtotal Residential - Townhouse	302	3	units	737,183	2,211,343
		194	m2/unit		
# EXTERNAL / INFRASTRUCTURE WORKS / AMPLIFICATION WORKS					
EXTERNAL WORKS Allow for Driveway		412	m2	500	206.000
Allow for briveway Allow for hard and soft landscaping to remaining site area not covered by built area		3,107	m2	600	,
E.O. for suspended slab		400	m2	400	160,000
Allow to Footpaths within site boundary		168	m2	900	151,200
EXTERNAL SERVICES Allow for incoming services connections (assumes services at Site Boundary)		1	Item	100,000	100,000
Allow for fire water storage tank and stormwater detention tank		1	Item	250,000	
Allow for solar panels to roof		1	Item	100,000	
Prov Allowance for ESD Initiatives				Excl Excl	Excl Excl
					EXCI
Allow for services diversions and amplification Prov Allowance for Kiosk		1	Item	200,000	200,000
Allow for services diversions and amplification		1	ltem		200,000
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A		1	ltem		
Allow for services diversions and amplification Prov Allowance for Kiosk		1	ltem		
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A	7,205	1 GBA	Item		
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL	7,205			200,000	3,031,400
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL # PRELIMINARIES AND PROFIT Preliminaries - 21%	7,205	<b>GBA</b>	%	200,000 4,163 29,991,603	3,031,400 29,991,603 6,298,237
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL # PRELIMINARIES AND PROFIT		GBA		200,000 4,163 29,991,603 36,289,840	<b>3,031,400</b> <b>29,991,603</b> <u>6,298,237</u> 1,814,492
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL # PRELIMINARIES AND PROFIT Preliminaries - 21%	7,205	<b>GBA</b>	%	200,000 4,163 29,991,603	3,031,400 29,991,603 6,298,237 1,814,492
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL # PRELIMINARIES AND PROFIT Preliminaries - 21% Profit and overheads - 5%		<b>GBA</b>	%	200,000 4,163 29,991,603 36,289,840	3,031,400 29,991,603 6,298,237 1,814,492
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL # PRELIMINARIES AND PROFIT Preliminaries - 21% Profit and overheads - 5% # STATUTORY / COUNCIL FEES & CHARGES: DA / Building Construction Certificate		<b>GBA</b>	% % Item	200,000 4,163 29,991,603 36,289,840	3,031,400 29,991,603 6,298,237 1,814,492 38,104,332 Excl
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL # PRELIMINARIES AND PROFIT Preliminaries - 21% Profit and overheads - 5% # STATUTORY / COUNCIL FEES & CHARGES:	7,205	<b>GBA</b>	% %	200,000 4,163 29,991,603 36,289,840 5,289	3,031,400 29,991,603 6,298,237 1,814,492 38,104,332 Excl
Allow for services diversions and amplification Prov Allowance for Kiosk Prov Allowance for underground Power Lines and new Light Poles - Assume N/A Subtotal External & Infrastructure TRADE TOTAL # PRELIMINARIES AND PROFIT Preliminaries - 21% Profit and overheads - 5% # STATUTORY / COUNCIL FEES & CHARGES: DA / Building Construction Certificate		<b>GBA</b>	% % Item	200,000 4,163 29,991,603 36,289,840	3,031,400 29,991,603 6,298,237 1,814,492 38,104,332 Excl

159-167 Darley Street Mona Vale					
Preliminary Budget Estimate					
29/09/2023					
	G.B.A.	Quantity	UNIT	RATE/m2	EXTENSION
ELEMENT	m2	m2	ONIT	\$	\$
Novated Consultants Fees			Item		Excl
Non Novated Consultants Fees Engaged by the Builder		1	%	38,104,332	381,043
	7,205			5,341	38,485,375
# ESCALATION TO CONSTRUCTION START DATE (excl) - to be included in separ	ate Developme	nt Budget	Item		Excl
# CONTINGENCIES AND ESCALATION					
Construction Contingencies - (5%)		5	%	38,485,375	1,924,269
Design Contingencies - (5%)		5	%	38,485,375	1,924,269
Escalation to start of construction (4% in 2023, 2.8% in 2024 and 3.5% in 2025)		5.64	%	38,485,375	2,172,496
Total ( Excl Professional Fees & GST )	7,205		GBA	6,177	44,506,408
# PROFESSIONAL FEES, DEVELOPMENT FEES AND DEVELOPMENT COSTS			Item		Excl
TOTAL ( Excl GST )	7,205		GBA	6,177	44,506,408
	1,200		OBA	0,111	
NOTES:-		Basemer	nt - \$/m2 incl Pr	elims & Margin	\$ 2,851 / m2
1. Refer to attached List of Exclusions & List of Information	Basemer	nt - \$/m2 incl P	relims & Margir Worl	1 + Demo & Ext ks Apportioned	\$ 3,468 / m2
<ol> <li>Based on bench marking, WTP recommend Professional Fees to be 8-9% including</li> <li>to 3% of Consultant Fees which will be novated across to the contractor.</li> </ol>	ling Basement - \$/car incl Prelims & Margin \$ 87,				\$ 87,364 / car
	Basemen	it - \$/car incl P	relims & Margir Worl	n + Demo & Ext ks Apportioned	\$ 106,268 / car
				elims & Margin	\$ 5,719 / m2
	Apartment - \$/m2 incl Prelims & Margin + Demo & Ex Works Apportioned				\$ 6,336 / m2
		Apartmen	t - \$/unit incl Pr	elims & Margin	\$ 627,891 / unit
	Apartment - \$/unit incl Prelims & Margin + Demo & Ex Works Apportione			ks Apportioned	\$ 695,631 / unit
				elims & Margin	\$ 4,828 / m2
	Townhouse - \$/unit incl Prelims & Margin \$ 936,591				• • • • •
					· · · · · · · · · · · · · · · · · · ·

### 159-167 Darley Street Mona Vale

### Preliminary Budget Estimate

### 29/09/2023

### Exclusions

Escalation beyond mid 2025

Land costs, site acquisition costs, holding costs and interest charges;

Legal and Agent's fees;

Finance Costs;

Council contributions, special fees and payments (Section 94);

Development Application and Construction Certificates fees and charges;

Statutory Authority Fees and charges (Telstra, Energy Australia, Water and Agility); Public artwork / sculptures;

Loose furniture and equipment, FF&E

Asbestos reports, monitoring and removal above allownace made in estimate; Incoming services amplifications

Removal of contaminated spoil (if applicable), removal of asbestos, lead paint, etc. in excess of allowances made for GSW

Unknown site conditions;

Sales, leasing and Marketing Agent fees and costs;

Works to surrounding roads in excess of allowances made;

allowances made

Client Representative Fees, clerk of works costs;

Client project contingency;

Design and Construction contingencies in excess of 5% allowed in the estimate

Professional fees including Contractors D&C Fees;

Prolongation and time extension costs;

GST (10%);

Carpark management systems

Staging Costs

### Information Used

Att 3 - Appendix A - Drawings prepared by GILES TRIBE

Att 3 - Appendix B - Urban Design Study prepared by GILES TRIBE

