


Amendment C296Case: Croskell Employment PSP
Melbourne Water Submission - 16 October 2024

Item No.	Document	Reference	Topic	MW Submission to Agency Validation
1	PSP	General	DSS	MW's DSS is still being refined and subject to change for Public Exhibition which will result in changes to the Place Based Plan. This includes a potential crossing of the VDP cable in the eastern catchment.
2	PSP	General	Mapping	Drainage asset not shown on plans. Proposed sediment basin to be added on plans. MW to supply spatial data. 
3	PSP	General	Further considerations	MW is further investigating groundwater risks associated in this catchment. Impact of groundwater may change asset location and increase sizes if assets are to be shallower to reduce groundwater interaction. More detailed groundwater assessment will impact the PSP time frame.

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4	PSP	General	Requireme nts	Add a new requirement regarding groundwater licensing requirements: Proposal of "The developer will need to obtain any relevant groundwater licenses and/or approval from the relevant authority."
5	PSP	General	Requireme nts	Add a new requirement regarding protection of MW assets: Proposal of "During the delivery of infrastructure, any works impacting on Melbourne Water land, easements and assets will require Melbourne Water consent."

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6	PSP	General	Guidelines	<p>Similar Guidelines from Officer South Employment PSP should be added.</p> <div><p>G34 Subdivision should provide for a local street separating development from waterways, sporting reserves and local parks and the linear reserve. Where subdivision does not propose a local street separating development, design and layout options should demonstrate:</p><ul style="list-style-type: none">lots directly fronting open space and landscape value areas should be set back at least 4 metres from the waterway corridor and open spacelots directly fronting open space should allow for vehicular access via a rear lanewaya 4 metre wide "paper road" should be provided as the primary point of access from a footpath or shared path with a minimum width of 1.5 metres along the lot frontagesubdivision design should avoid side or rear fence treatments fronting open spacesubdivision design should maximise opportunities for informal passive surveillancesubdivision design should not limit the use of adjacent open space.<p>All to the satisfaction of the responsible authority and where adjacent to a waterway to the satisfaction of the responsible authority and Melbourne Water.</p></div>
7	PSP	Staging Plan		To be worked on offline between MW and VPA and landowners prior to Public Exhibition
8	PSP	Relevant plan?	Mapping	Current Urban Floodway Zone and Land Subject to Inundation Overlay should be shown on a relevant plan - UFZ and LSIO extent should be shown on a relevant plan
9	PSP	1.4	Amendmen t to wording	<p>Para 5, change drain to Ti Tree Creek (channelised) "This connects to a drain through the site on a north-east alignment to connect with the development to the north."</p> <p><i>Change sentence to:</i> <i>"This connects to Ti Tree Creek through the site on a north-east alignment to connect with the development to the north."</i></p>
10	PSP	1.4	Content Change	Change content to: <i>"There is also a Melbourne Water underground water supply pipeline reserve that runs diagonally through the middle of the site."</i>


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11	PSP	Table 2, Row 3.1.R2	Amendmen t	“Plan X” needs to be amended to Plan 2
12	PSP	Plan 2	Mapping	Legend of the plan needs amendment. Add “drainage investigation area” to the legend of this plan
13	PSP	Table 5	Requireme nts	Add new requirement relating to pedestrian paths and cycling infrastructure. <i>“Public pedestrian and equestrian paths and infrastructure must be located outside drainage reserve areas to factor in risks such as high groundwater and the function of the drainage asset. If waterway crossings are required, they must be to the satisfaction of Melbourne Water and the responsible authority.”</i>
14	PSP	Table 5, 3.2.R3	Requireme nts - amendmen t sought	Amend requirement: Pedestrian and cyclist crossings must be provided every 400-800m, where appropriate, along arterial roads, rail lines, waterways, and any other accessibility barriers. Crossings of the Victorian Desalination Project (VDP) must be delivered where shown on Plan 4 unless otherwise approved by the Secretary to the Department of Energy, Environment and Climate Action and the Responsible Authority. <u>Crossings of the water supply pipeline infrastructure must be delivered where shown on Plan 4 unless otherwise approved by Melbourne Water.</u>
15	PSP	Plan 4	Mapping	Change label of “Underground waterpipe” to Proposed underground drainage pipe
15	PSP			Change label symbol of “main water supply pipeline” - Symbol for this feature should be clearer on the plan.
16	PSP	Table 9, 3.4.O3	Addition / amendmen t	Add following objective: To ensure stormwater is managed for flood protection factoring in climate change, water quality treatment, to ensure stormwater drainage is managed to meet critical infrastructure crossing requirements, consistent with the Development Services Scheme (DSS).

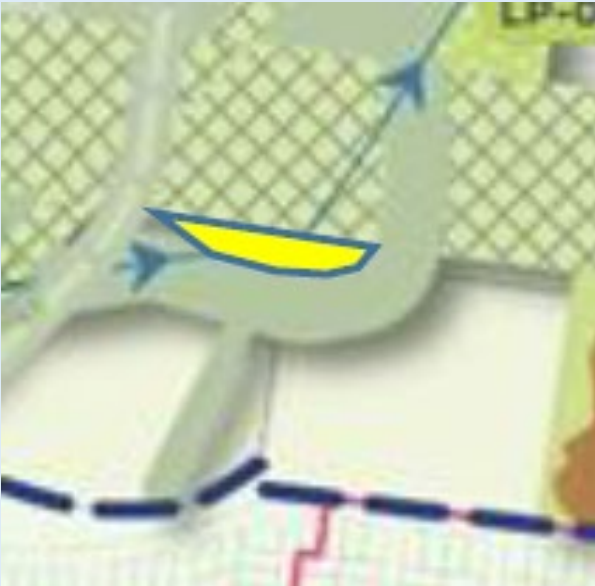
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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
17	PSP	Table 10	Requireme nt	Add New Requirement: <i>Subdivision and development to ensure drainage design and delivery is consistent with the Development Services Scheme (DSS).</i>
17	PSP			Add a new requirement that constructed waterways are to remain open and not be piped. <i>Drainage waterways are to be designed and delivered as open waterways consistent with the Development Services Scheme (DSS).</i>
18	PSP	Table 10, 3.4.R5	Requireme nts - amendmen t sought	Amend requirement: Stormwater Management Plan..... and consistent with the Development Services Scheme (DSS).
19	PSP		Comment	Critical/high value trees for protection. MW will work with Council/VPA in ensuring trees are integrated with the waterway reserve where feasible.


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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
19	PSP	Plan 6	Mapping	<div><div>Add the waterway (and a flow direction) that flows from west to the southwest-northeast waterway</div><div></div></div>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
19	PSP		Mapping	<p>The narrow strip between the easement, MW water way and proposed Casey Fields BVD is shown as residential. However, it is safer to extend the MW reserved land to this piece of land.</p> 
20	PSP	3.4 R6	Recommendation for consideration	<p>Recommendation only: To include, “Connecting with these areas where feasible to drainage reserves through appropriate planting to support ecological function”. This also links to 3.5 G1 Land in electricity easement – opportunity for ecological function especially for connectivity with retained veg including trees in arboriculture assessment.</p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
21	PSP	Appendix 1 & Table 19	Mapping	<div><p>Culverts missing on plan. These culverts are to be funded by ICP or other (not by the DSS). Update plan and Table 19 new ICP culverts 1,2,3:</p></div>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
22	PSP	Table 15	Further engagement	All Requirements and Guidance especially 3.6G5 – VPA Terramatrix bushfire assessment must be reviewed to include the future state of drainage reserve which may impact the buffers required. Drainage reserves will be revegetated with indigenous species including canopy cover. MW will not take on additional maintenance associated with reducing bushfire risk management in drainage reserves.
Item No.	Document	Reference	Topic	MW Submission to Public Consultation
1	PSP	General	DSS	Melbourne Water are in the process of reviewing submissions to the drainage strategy and this will continue post public consultation. Melbourne Water expects to have an optimised drainage strategy prior to the directions hearing. This may result in changes to the place based plan.

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
2	Background report	1.4; p.9	Background	Melbourne Water requests that the Background Report for the PSP is updated prior to the approval of the planning scheme amendment to incorporate specific text relevant to the final drainage concept strategy advanced by Melbourne Water. This information will assist future users of the PSP in interpreting and applying the drainage provisions approved by the amendment.
3	Background report	2.2.4 Topography & waterway	Context	<p>Add the following paragraph to provide information about the role and implications of Melbourne Water's water supply infrastructure:</p> <p><i>'Melbourne Water water supply pipe track:</i></p> <p><i>There are three water mains traversing the whole distance of the PSP from north to south. Two of the pipes (M478 and M418) are contained within an approximate 30m wide Melbourne Water pipe track reserve, the other pipe (M418 Abandoned) is to the south of the pipe track. Any proposed impacts/activities within the vicinity of this pipe track will require Melbourne Water approval.'</i></p>
4	UGZ	Table	Land use	In this employment PSP, it is considered inappropriate for the applied zoning to default to a residential zone where the surrounding land uses are employment related. Melbourne Water anticipates that this was the intent of the UGZ Schedule, Table 1 drafting which seeks to apply the GRZ1 to 'other uncredited open space south of the utilities easement' and C2Z to 'other uncredited open space north of the utilities easement'. This general approach is supported, however it is noted that there is no applied zone stated for the utilities easement or uncredited open space within the utilities easement. It is submitted that the <u>Industrial 3 zone</u> should be extended to apply to ' <i>Land shown on Plan 1 of this schedule within the utilities easement, including other uncredited open space'</i> .

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5	UGZ	3.0 - 5th dot point	Content change	<p>The current application requirement calls for the submission of a <i>drainage and integrated water management plan</i>. Consistent with the submission below regarding PSP R27, it is submitted that this should be revised, and merged with the following dot point, to require the submission of:</p> <p><u>A Stormwater Management Plan, including an Integrated Water Management Plan</u>, that assesses the existing surface and subsurface drainage conditions on the site, addresses the provision, staging and timing of stormwater drainage works <u>required to service the land and/or by the DSS or PSP</u>, including <u>any proposed</u> temporary outfall provisions, to the satisfaction of Casey City Council and Melbourne Water.</p>
6	UGZ	4.0 - Conditions and requirements for permits	Content change	<p>While a SWMP/IWM application requirement (subject to the above comments) is included in the UGZ schedule, there is not an accompanying condition requiring compliance with the application requirement. Melbourne Water suggests the following drafting (adapted from Officer South):</p> <p>Condition – Stormwater Management Plan A permit to subdivide land, must include the following condition: <u>Unless otherwise agreed by the Responsible Authority and Melbourne Water, before certification of the plan of subdivision the Stormwater Management Plan must be approved by Melbourne Water and approved and endorsed by the Responsible Authority.</u></p>
7	PSP	1.4 Precinct Features	Context	<p>The Precinct Features section of the PSP would be strengthened by the addition of the following content, after the 5th paragraph:</p> <p><i>The PSP area sits within the broader Ti-Tree Creek Development Services Scheme Area (DSS). The DSS area discharges generally in a north-easterly and then north-westerly direction into Greaves Road Retarding Basin before entering Hallam Valley Contour Drain. The PSP relies upon, and will assist in the implementation of, the DSS.</i></p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
8	PSP	1.4 Precinct Features	Context	<p>The PSP should emphasise the significance of the water supply pipeline, at paragraph 6, with the addition of the word 'critical':</p> <p><i>'There is also a critical Melbourne Water underground water supply pipeline reserve that runs diagonally through the middle of the site.'</i></p>
9	PSP	1.4 Precinct Features	Content change	<p>Paragraph 5: insert wording "stormwater treatment":</p> <p><i>'...corner of the PSP that is an extension of stormwater treatment wetlands from the development to the south...'</i></p>
10	PSP	1.4 Precinct Features	Content change	<p>Include content to note that specific recommendations have been made for the patch of remnant vegetation, in addition to it being registered as an Aboriginal cultural heritage place:</p> <p><i>'Croskell (Employment) was surveyed as part of the Melbourne Strategic Assessment program, and while there are no conservation areas located within the project area, the Registered Aboriginal Party for the area, the Bunurong Land Council Aboriginal Corporation, has identified a patch of vegetation in the south eastern portion of the precinct that has intangible cultural heritage values. The PSP contains recommendations for the management of the patch of vegetation, in addition to it being registered as an Aboriginal cultural heritage place under the Aboriginal Heritage Act 2006.'</i></p>
11	PSP	Plan 1 - Precinct features	Mapping	<p>The current Urban Floodway Zone should be shown on the Precinct Features map (in addition to the LSIO).</p>
12	PSP	Plan 1 - Precinct features	Mapping	<p>Plan 1 shows 'Aboriginal heritage' but this is not all of the registered Aboriginal cultural heritage places within the PSP area – only the registered patch of remnant vegetation. Consider redacting 'Aboriginal heritage' and include 'area of cultural heritage sensitivity' only.</p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
13	PSP	Plan 1 Precinct Features and Plan 7 Public realm and water	Mapping	Edit Plan 1 and Plan 7 to clearly show and label <i>'Melbourne Water water supply pipe track'</i>
14	PSP	2.2	Content change	<p>The PSP area contains Aboriginal cultural heritage values that are not registered places, such as intangible values, landforms and waterways etc.</p> <p>'3. A precinct that protects, manages and celebrates its Aboriginal places <i>and values</i> , and historic heritage sites'</p>
15	PSP	2.2, p.12	Purpose	<p>Melbourne Water requests the following change to the 4th 'aim' of the PSP:</p> <p><i>A well integrated network of waterways and open spaces that tell the story of Country, effectively safely and sustainably manage and drain stormwater , and provide amenity to workers and residents.</i></p>
16	PSP	2.2, p.13, Plan 2 - Place based plan	Note	<p>The PSP has been released for consultation with Plan 2 showing drainage investigation areas. Melbourne Water will resolve its position on optimisations to the drainage strategy concept design prior to the directions hearing. Melbourne Water anticipates that the VPA will update Plan 2 through a 'day 1' version of the PSP filed with the VPA Projects SAC, following confirmation of the Melbourne Water position.</p>
17	PSP	Plan 2 - Place based plan	Zoning	<p>Melbourne Water seeks for the PUZ Schedule 1 to be applied to the full extent of Melbourne Water's water supply pipeline reserve (within the PSP site), consistent with the purpose of the PUZ, 'To recognise public land use for public utility and community services and facilities'. This would also formalise the requirement for Melbourne Water's consent for any permit applications made.</p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
18	PSP	Plan 2 - Place based plan	Mapping	The narrow strip of planned residential land between the Melbourne Water reserve/utilities easement and Casey Fields Boulevard should be changed to 'other uncredited open space'. It is unlikely that Melbourne Water would support residential development in that location. Alternatively, subject to appropriate investigation/traffic engineering, Casey Fields Boulevard could be re-aligned to border Melbourne Water's reserve, so that the equivalent residential land is recouped to the east of Casey Fields Boulevard.
19	PSP	3.2.2, R9	Content change	Add additional requirement to R9 : <i>Pedestrian and active transport infrastructure must be: provided in accordance with those items indicated in Plan 4 Movement network and public transport and Plan 5Utility easement and the relevant cross sections in Appendix 3 and Appendix 4 ; and, located outside drainage reserve areas to factor in risks such as high groundwater and the function of the drainage asset unless otherwise approved by Melbourne Water.'</i>
20	PSP	3.2.2, R12	Content Change	Add a new dot point item to R12: <i>'Crossings of waterways must be delivered where shown on Plan 4 Movement network and public transport and Plan 5 utility Easement, and must be designed to ensure that flood flows can still be conveyed by the waterway or the overland flow path, to the satisfaction of Melbourne Water.'</i>
21	PSP	Plan 4 - Movement Networks and Public Transport, and Plan 5 - Utility Easement	Mapping	Pedestrian crossing symbols are required on Plan 4 and Plan 5 in locations that shared user paths cross waterways (see Appendix A image 1 for crossing locations shown red). Or for legibility, add a new symbol titled 'Pedestrian crossing of waterway'.

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22	PSP	Plan 4 - Movement Networks and Public Transport, and Plan 12 - Precinct Infrasrtucture Plan	Mapping	<p>Road culverts and shared user path crossings need to be added to Plan 4 and Plan 12. These assets must be designed to ensure flood flows can still be conveyed by the waterway or the overland flow path. Without adequate culverts or crossings, flooding can occur.</p> <p>See Appendix A image 2 (road culvert locations shown in red, shared use path crossings in pink)</p>
23	PSP	Table 21 - Precinct Infrastructure	Infrastructu re/funding	<p>As per above comment. New culverts/shared user path crossings are required to be added in this table. These new culverts/shared user path crossings are to be ICP funded as DSSs do not fund <u>new</u> crossings over drainage assets.</p>
24	PSP	3.4.2; O21	Content change	<p>It is important that the PSP objectives address crossings of critical infrastructure. The following additional wording is proposed for Objective O21:</p> <p><i>To ensure stormwater is managed for flood protection factoring in climate change and water quality treatment, and the need to facilitate safe and appropriate crossings of critical infrastructure (including water supply mains, and the VDP cable).</i></p> <p>The PSP should also include the following new Requirement (linked to O21) under Section 3.4 High Quality Public Realm:</p> <p><i>'Drainage infrastructure must meet all requirements for the crossing of the VDP cable, water supply pipeline and/or transmission easement, consistent with the Development Services Scheme (DSS) and cross sections at Appendix 3 (as applicable) to the satisfaction of Melbourne Water, DEECA and Ausnet'</i></p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
25	PSP	3.4.2; R18	Content change	<p>Melbourne Water requests that R18, G6 and G12 are revised to ensure that the 30% tree canopy target is not met through the provision of trees in drainage reserves. It is noted that Casey Council may seek for the majority to be provided as street trees. It is suggested that R18 could be revised to achieve this aim by inserting the words:</p> <p><i>'Trees within DSS assets may only be used to achieve the 30% tree canopy target with the written consent of Melbourne Water and the Responsible Authority'.</i></p>
26	PSP	3.4.2; R19	Content change	<p>For environmental reasons, it is important that trees adjoining/interfaces all waterway areas are native. At the very least, they must be non-deciduous. The following wording is suggested:</p> <p><i>A landscape plan must specify tree species which are suitable to the local climate and soil conditions, to the satisfaction of the responsible authority. Trees adjoining waterway areas must be native, to the satisfaction of Melbourne Water.</i></p>
27	PSP	3.4.2, R22	Content change	<p>Amend R22 to replace 'determined' with 'identified'; and 'considered' with the word 'managed', and add sentence about prioritising harm avoidance.</p> <p><i>'The retention, enhancement and integration of the existing natural environment, landscape features, registered Aboriginal Places or any areas of tangible or intangible Aboriginal cultural significance identified via a Cultural Heritage Management Plan must be managed through subdivision design, and, where applicable, building design. Where possible, harm should be avoided and/or minimised to any identified Aboriginal cultural heritage values.'</i></p>

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28	PSP	3.4.2; R27	Content change	<p>Drafting changes proposed to R27:</p> <p><i>A permit application must be accompanied by a A Stormwater Management Plan, which must include an Integrated Water Management solutions plan, and be in accordance with the relevant Development Services Scheme (DSS), generally in accordance consistent with Plan 7Public realm and water and the relevant Development Services Scheme (DSS), and achieve the objectives of the Best Practice Environment Management Guidelines (CSIRO, 1999) and the urban stormwater management guidance (EPA’s publication 1739).</i></p>

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29	PSP	3.4.2; R28	Content change	<p>Drafting changes proposed to R28:</p> <p>Permit Applications must be accompanied by an appropriate demonstrate, through the preparation of Integrated Water Management plan s, to demonstrate the extent to which development will contribute towards:</p> <ul style="list-style-type: none">•Outcomes identified in the DEECA Western Port Dandenong Strategic Directions Statement (September 2018) and Western Port Dandenong IWM Catchment Scale Plan (September 2022)•Outcomes identified in the Croskell Precinct Structure Plan Integrated Water Management Plan (ARUP, Nov 2023).•Stormwater volume reduction and infiltration targets in Melbourne Water’s Healthy Waterway Strategy (2018), which are applicable to the PSP.•Potable water reduction targets outlined in the draft Greater Melbourne Urban Water and System Strategy – Water for Life, which are applicable to the PSP.•Waterways and integrated water management outcomes that enable land to be used for multiple recreation and environmental purposes. <p>•The delivery of Plan 7 Public realm and water.</p> <p>•The delivery of the applicable DSS;</p> <p>to the satisfaction of South East Water, Melbourne Water and the responsible authority.</p> <p><u>Note regarding dot point one:</u> The Healthy Waterways Strategy incorrectly identifies the Croskell PSP as part of the Cardinia, Deep, Toomuc and Ararat Creeks sub-catchment. Croskell PSP is part of the Dandenong Catchment. This error has been noted and will be corrected as part of the next HWS update).</p> <p><u>Note regarding dot point three:</u> The Croskell PSP is not located within a stormwater priority area. Stormwater harvesting and infiltration targets for areas outside the Healthy Waterway Strategy stormwater priority areas as described in the Healthy Waterway Strategy Practitioner’s Notes and EPA’s Urban Stormwater Management Guidance are applicable to this PSP. Specifically, approximately 26% of mean annual impervious runoff needs to be harvested and 11% of mean annual impervious runoff needs to be infiltrated to help prevent further degradation in the receiving waterway and catchment.</p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
30	PSP	3.4.2; R29	Content change	<p>Add the below note regarding exceeding performance objectives, to R29 (Consistent with OSE PSP R29), and italicise CSIRO guidelines:</p> <p><i>Stormwater runoff from development must meet the performance objectives of the Commonwealth Scientific and Industrial Research Organisation Best Practice Environmental Management Guidelines for Urban Stormwater (or as amended) prior to discharge to receiving waterways and as outlined in Plan 7 Public realm and water, unless otherwise approved by Melbourne Water and the responsible authority.</i></p> <p><i>Proposals that exceed the performance objectives are highly encouraged and can be considered, all to the satisfaction of Melbourne Water and the responsible authority.</i></p>
31	PSP	3.4.2; R30	Content change	<p>Drafting changes proposed to R30:</p> <p><i>The final layout, boundaries and design of constructed wetlands, retarding basins, drainage, flood protection, stormwater quality treatment infrastructure, and associated paths, boardwalks, bridges, and planting must:</i></p> <ul style="list-style-type: none"><i>•Include appropriate treatments to provide protection for dispersive soils where these are present</i><i>•Must mitigate the risk of erosion from sodic and dispersive soils</i><i>• Mitigate impacts to groundwater</i><i>•Be in accordance with the DSS and generally in accordance with Plan 7 Public realm and water,</i> <i>to the satisfaction of Melbourne Water and the responsible authority</i> <p>Groundwater is an important consideration for the construction of all infrastructure, and for both the construction and operation of drainage assets. Other than the requirement for licences/approvals at R33, the PSP does not express any objective/requirement for groundwater. It is proposed to insert the above dot point item in relation to groundwater.</p>
32	PSP	3.2	Content change	<p>A new requirement should be inserted under section 3.2 to address groundwater approvals for infrastructure (not just 'drainage infrastructure' as per R33):</p> <p><i>'Prior to the construction of any infrastructure, the proponent must obtain any relevant groundwater licenses and/or approvals from the relevant authority.'</i></p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
33	PSP	3.4.2; R31	Content change	<p>Drafting changes proposed to R31, including new dot point item to address groundwater:</p> <p><i>Stormwater conveyance, storage and treatment must be designed in accordance with the relevant Development Services Scheme and generally in accordance with Plan 7 Public realm and water, such that:</i></p> <ul style="list-style-type: none"><i>•Overland flow paths and piping within road reserves will be connected and integrated across parcel boundaries.</i><i>•Melbourne Water and the responsible authority freeboard requirements for overland flow paths will be adequately contained within the road reserves and waterways.</i><i>•The risk of erosion of sodic and/or dispersive soils is avoided or mitigated;</i><i>•The infrastructure typology (i.e. swales, open waterways, pipes) specified in the DSS for each asset are delivered.</i> <i>to the satisfaction of Melbourne Water and the responsible authority.</i><i>•The risk of shallow groundwater is avoided or mitigated.</i> <i>to the satisfaction of Melbourne Water and the responsible authority.</i>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
34	PSP	3.4.2; R32	Content change	<p>Melbourne Water is concerned about a trend observed in some other precincts to change the typology of assets through detailed design. For instance, developers seek to pipe a waterway rather than provide an open waterway as specified in a DSS. Therefore the following changes are sought to R32:</p> <p><i>'Drainage waterways must be designed in accordance with the relevant Development Services Scheme and generally in accordance with Plan 7 Public realm and water. Waterways must be delivered to:</i></p> <ul style="list-style-type: none"><i>• Provide safe drainage and flood protection.</i><i>• Incorporate environmental, cultural and amenity value.</i><i>• Provide an open drainage system where this typology is specified in the DSS.</i> <i>to the satisfaction of Melbourne Water and the responsible authority.'</i> <p>The following changes are sought to R36:</p> <p><i>'..must be delivered and operating (in the typology (i.e. swale, open waterway, pipes) described in Table 19) unless otherwise agreed in writing by the responsible authority and Melbourne Water'</i></p> <p>Additionally, in Table 19:</p> <ul style="list-style-type: none"><i>• 'H1' changed to 'west-north open waterway (including two water supply crossings, two VDP utilities easement crossings, other crossings)'</i><i>• for 'I' changed to 'south open waterway'</i>
35	PSP	3.4.2	Content Change	<p>A new requirement is sought to ensure that all drainage works impacting critical assets (VDP easement or water supply pipeline) must be delivered in the ultimate version. To minimise risk to critical assets, no interim works will be supported.</p> <p><i>'Drainage works and infrastructure impacting the VDP infrastructure or the Melbourne Water water supply pipeline, must be delivered in their ultimate form as one sequence of works, and not as staged or interim works'</i></p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
36	PSP	3.4.2	Content Change	<p>Add new requirement (with wording similar to R6) to ensure that the necessary Melbourne Water/DEECA approvals will be obtained.</p> <p><i>The proponent delivering drainage infrastructure over the high voltage transmission utilities easement and Victorian Desalination Project (VDP) infrastructure must:</i></p> <ul style="list-style-type: none"><i>• Liaise with the responsible authority and the Department of Energy, Environment and Climate Action to ensure the drainage infrastructure is delivered in the location specified on Plan 7 Public realm and water unless otherwise approved by the Secretary to the Department of Energy, Environment and Climate Action, Melbourne Water and the responsible authority.</i><i>• Enter into an Interface Works Agreement with the Department of Energy, Environment and Climate Action for the development of an appropriate engineering response for the drainage crossing over the VDP assets.</i><i>• design and deliver the drainage infrastructure to the satisfaction of Melbourne Water and the Department of Energy, Environment and Climate Action.</i>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
37	PSP	3.4.2	Content Change	<p>Add new requirement (with wording similar to R6) to ensure that the necessary Melbourne Water requirements and approvals relating to the water supply pipe track are in place.</p> <p><i>The proponent delivering drainage, road, shared user path or other infrastructure over the Melbourne Water water supply pipe track must:</i></p> <ul style="list-style-type: none"><i>• Liaise with Melbourne Water to ensure the infrastructure is delivered in the location specified on Plan 4 Movement network and public transport and Plan 7 Public realm and water unless otherwise approved by Melbourne Water and the responsible authority.</i><i>• Liaise with Melbourne Water to ensure the infrastructure meets all water supply pipe track guidelines, standards for asset protection, operation and maintenance, and/or removal of redundant assets within or adjoining the pipe track.</i><i>• design and deliver the infrastructure to the satisfaction of Melbourne Water.</i> <p><u>Note:</u> There is an abandoned main (M418 Abandoned Beaconsfield to Langwarrin Main) which is located just outside the Melbourne Water owned land (south-eastern most pipe). This would need to be removed for any road/drainage crossings of the pipetrack and potentially other works in the vicinity of the pipetrack, because heavy loading may damage the abandoned main/cause it to collapse. It may be appropriate to include this information in a note on plan in the PSP or within the background report.</p>
38	PSP	3.4.2	Content Change	<p>Add a new requirement to section 3.4 (relating to objective 21) to ensure that only Melbourne Water vehicles have access to the waters supply pipe track reserve (or other vehicles with Melbourne Water's permission):</p> <p><i>Infrastructure (such as drainage, shared user path, and road crossings) over the Melbourne Water water supply pipe track reserve, and development adjoining the water supply pipe track reserve, must ensure that:</i></p> <ul style="list-style-type: none"><i>•Melbourne Water maintains vehicle access to the full length of the reserve; and,</i><i>•Public and construction vehicle access is prevented (by way of fencing/bollards) unless permitted by Melbourne Water, to the satisfaction of Melbourne Water.</i>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
39	PSP	3.4, G17	Content change	<p>Add sentence about prioritising harm avoidance.</p> <p>G17: Development should include integrated water management initiatives to reduce reliance on potable water and increase the utilisation of storm and recycled water contributing to a sustainable urban environment by having regard to relevant water management policies and strategies implemented by the responsible authority. Integrated water management systems should be designed to:</p> <ul style="list-style-type: none">• Maximise habitat values for local flora and fauna species.• Enable future harvesting and/or treatment and re-use of stormwater.• Recognise and respond to Aboriginal cultural heritage and values. <i>Where possible, harm should be avoided and/or minimised to any identified Aboriginal cultural heritage values.</i>
40	PSP	3.4.2; G18	Content change	<p>There is an opportunity to support ecological function, especially for connectivity with retained vegetation and trees. An additional dot point item could be added to G18:</p> <p><i>'Provides habitat or ecological links connecting areas of retained vegetation to Ti Tree Creek where feasible'</i></p>
41	PSP	3.4, G21	Content change	<p>Section 5 of the Cultural Values Interpretation Strategy (as referenced in G21) is specifically about interpretation such as signage and thematic trails – and is therefore not relevant to subdivision design. Probably more relevant to O23 (Section 3.4). Consider removing/relocating.</p>

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42	PSP	3.4.2	Content change	Add as a new Guideline (Consistent with OSE PSP G21) <i>'Where possible, salvaged rocks should be incorporated into the design of waterways, retaining structures, fences, and other landscape features.'</i>
43	PSP	3.4	Content change	New guideline suggested, in relation to Objective 23: <i>Consider early works that have the potential to impact on cultural heritage values (such as geotechnical works) and where possible relocate these away from waterways, and other culturally sensitive landforms.</i>
44	PSP	Plan 7 - Public Realm and Water	Mapping	The open waterway should be shown on the public realm and water plan, given that is is a significant landscape feature and drainge asset. The 400m buffer to local park layer should be removed or just denoted with a line rather than solid colour. It affects the legibility of the plan colours and interpretation of the legend, e.g. confuses the extent of employment area.
45	PSP	Plan 7 - Public Realm and Water	Mapping	Remove investigation area #5. This will not be feasible.
46	PSP	Plan 7 - Public Realm and Water	Mapping	Add a note and corresponding symbol for each of the three drainage crossings of the VDP cable/transmission easement: <i>"Drainage crossing of the VDP cable and transmission easement will be subject to design approval by DEECA and Ausnet."</i>

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47	PSP	Plan 7 - Public Realm and Water	Mapping	Remove label "dedicated spongy areas" because it is not correct drainage terminology.
48	PSP	Plan 7 - Public Realm and Water	Mapping	Change label to ' <u>major</u> overland flow <u>path</u> '.
49	PSP	Plan 7 - Public Realm and Water	Mapping	Add 'major overland flowpath' alignment at location shown in Appendix A image 3 .
50	PSP	Plan 7 - Public Realm and Water	Mapping	Query regarding the legend: what is meant by "proposed stormwater crossing"? It is not clear on the plan.
51	PSP	3.5.2 R35, and 3.4.2 G23	Content change	<p>Melbourne Water does not accept liability/responsibility for bushfire risk management for private land, and does not accept responsibility for ensuring that vegetation in drainage reserves is maintained to a low bushfire threat state. Therefore bushfire hazard protection setbacks should not be calculated to include/rely on Melbourne Water land.</p> <p>To ensure that drainage reserve land is not relied upon to achieve bushfire protection, the following additional wording should be included at R35:</p> <p><i>'Where a setback from a bushfire hazard area is required by Table 16 Bushfire hazard vegetation management and setback requirements, the setback must be contained within the subject property, and must not include drainage reserve land. Unless otherwise agreed by the responsible authority and relevant fire authority, vegetation within the setback must be managed as follows:</i></p> <p>Additionally, Guideline G23 should include the following additional dot point item to ensure that subdivision design allows bushfire protection setbacks to be contained within lots, where those lots adjoin drainage reserve land/open space.</p> <p><i>'• Subdivision design should ensure that bushfire setbacks as required by Table 16 can be entirely contained within lot boundaries.'</i></p>

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Item No.	Document	Reference	Topic	MW Submission to Agency Validation
52	PSP	Plan 8 - Native Vegetation Retention and Removal	Mapping	The Native Vegetation Retention and Removal plan should include the mapping from the non-MSA area as well, which is particularly important for retention of trees along the boundary line. Potentially as a separate plan to avoid confusion.
53	PSP	Plan 11 - Infrastructure and Development Staging	Mapping	<p>Add a note to Plan 11 that: <i>'A' and 'E' diversion pipelines also require gap flows to be conveyed overland via the road system'</i></p> <p><u>Mapping changes required:</u></p> <p>Melbourne Water supports the provision of roads to accommodate gap overland flow paths that follow the same alignment shown by 'A' and 'E' on Plan 11. However, it is noted that the proposed road coinciding with alignment 'E' is interrupted by the park (LPO2). To ensure that the drainage function can be realised, LP02 needs to move further north so that the local access street can continue uninterrupted to support the gap overland flow path. Alternatively, Council would need to consent to a drainage reserve within LP02 to accommodate the gap overland flow path to ensure that there will be no proposed obstructions to drainage within the park.</p>
54	PSP	Appendix 3 - Cross sections	Cross Sections	An additional cross section is needed for <i>'Drainage asset-shared path-local access street'</i> . The cross section should note that bushfire setbacks/buffers from the edge of the drainage asset will vary depending on future vegetated stage (vegetation management class), and make reference to Plan 10/Table 16.
55	PSP	Appendix 3 - Cross sections	Cross Sections	

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56	GC148	Amendment	Specific Controls Overlay	Melbourne Water understands that a planning scheme amendment is under preparation that would apply a Specific Controls Overlay to land impacted by the VDP. Melbourne Water notes that drainage infrastructure will be required to transverse the VDP if the precinct is to be developed in accordance with the PSP.