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Stormwater Compliance Statement

Lots 4.1, 4.2, 4.3 and 4.4 of Burrah Park

ELIZABETH DRIVE, BADGERYS CREEK, NSW

Revision 1.1

April 2026

henry&hymas

Our Ref No. 240518

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Project verification

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	Name
Prepared By	Nicholas Wetzlar
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Introduction

This letter of compliance has been prepared by Henry & Hymas Consulting to accompany a State Significant Development Application (SSDA) for a four industrial warehouses and logistics facilities on behalf of DHL Supply Chain (Australia) Pty Ltd (DHL) within part of Lot 1 in Deposited Plan 1306448 at 1953-2109 Elizabeth Drive, Badgerys Creek.

The letter aims to provide confirmation on the stormwater management design prepared as part of the SSDA and its consistency with the Burrah Park Development and greater Wianamatta–South Creek stormwater management targets satisfied as part of the Burrah Park Development proposal.

The letter make specific reference to Response to Submission by by the Department of Planning, Housing and Industry (DPHI), received for SSD-70818708 and SSD-70817958, listed below:

- DCCEEW-CPHR Letter, reference DOC25/330920, dated 5 June 2025
- DCCEEW-CPHR Letter, reference DOC25/330919, dated 29 May 2025
- Sydney Water Letter, reference 223691 (SSD-70818708), dated 4 June 2025
- Sydney Water Letter, reference 223691 (SSD-70817958), dated 4 June 2025
- Penrith City Council Letter, reference P-900106-Y8P3, dated 19 May 2025
- Penrith City Council Letter, reference P-900143-B4C9, dated 19 May 2025
- DPHI Letter, reference SSD-70818708, dated 20 December 2024
- DPHI Letter, reference SSD-70817958, dated 20 December 2024

Background Information

The Subject Site for SSD-70818708 and SSD-70817958 relates to several lots within the Burrah Park industrial warehouse and logistics estate. The subject lots are identified as 4.1,4.2,4.3 and 4.4 with the locality within the Burrah Park estate shown below in Figure 1 (page over). The Burrah Park industrial warehouse and logistics estates State Significant Development Application (SSDA) (SSD- 70316465) for a Concept and Stage 1 SSDA for a Warehouse and Logistics Estate at 1953-2109 Elizaeth Drive, Badgerys Creek. The site is legally described as Lot 1 in Deposited Plan 1306448.

To provide context in reference to this Statement of Compliance, Henry & Hymas are engaged by Burra Park Prop Trust 1 to prepare civil and stormwater documentation for the Burrah Park estate. The Burrah Park development proposal includes the delivery of regional basins and associated infrastructure proposed in the Aerotropolis Integrated Stormwater Scheme under the Regional Stormwater Authority Sydney Water. Henry & Hymas are in close consultation with Sydney Water and associated technical consultants for the design and documentation of the Integrated Stormwater Scheme infrastructure within the Burrah Park Estate.

Additional information regarding the Burrah Park development is provided in the link below:

https://www.planningportal.nsw.gov.au/major-projects/projects/burrah-park.

Additional information regarding the Aerotropolis Integrated Stormwater Scheme is provided in the link below:

https://www.sydneywater.com.au/water-the-environment/what-we-are-doing/projects-in-your-area/western-sydney-aerotropolis-stormwater.html

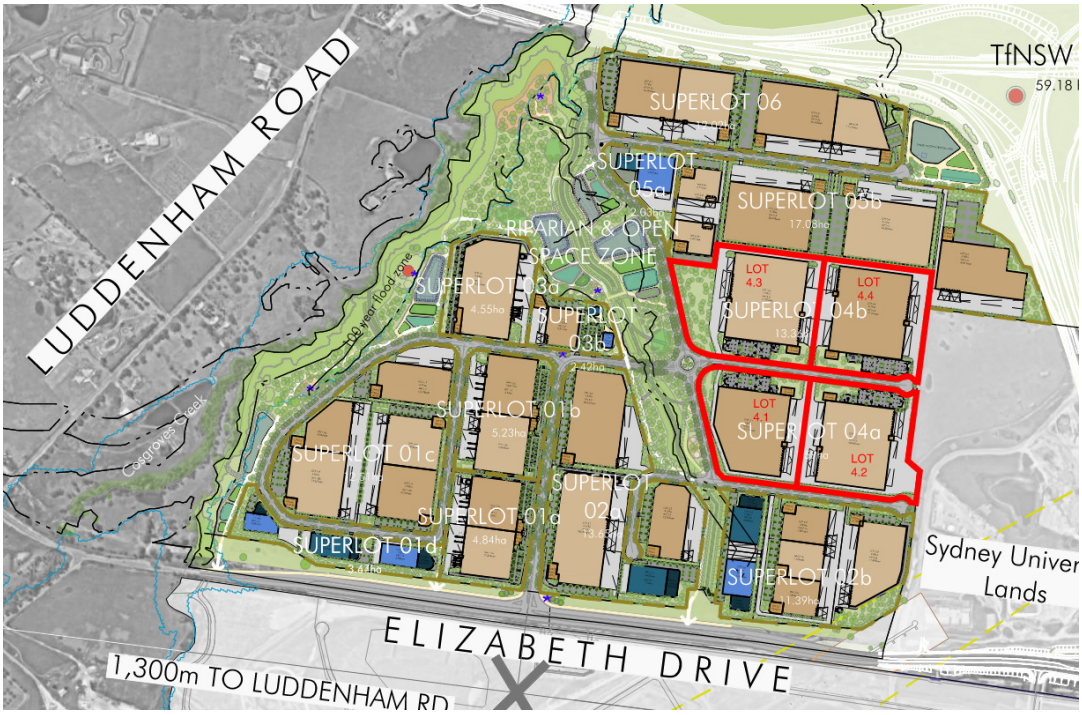


Figure 2: Locality of subject Lots 4.1,4.2,4.3 and 4.4 within Burrah Park - Source: Nettleton Tribe

Adoption of the Aerotropolis Integrated Stormwater Scheme Model

The Burrah Park Development team has been in close consultation with Sydney Water with several iterations to the regional stormwater management system within Burrah Park occurring as Infrastructure Design Guidelines within the Aerotropolis evolved. As part of recent consultation Sydney Water and the Burrah Park Development Team between October 2025 to April 2026, the Burrah Park development proposal has been amended to adopt, and coordinate to, the Aerotropolis Integrated Stormwater Scheme Model.

In October 2025, the Burrah Park Development Team was provided with the Integrated stormwater Scheme water quality and flow target model (MUSIC model) (reference Burrah Issue - Cluster 3 2025 10 03) and preliminary design documentation (reference Burra-Pk-Basins_Civille_2025-10-16(1) containing the concept regional basin designs (location, size, geometry and levels) by Sydney Water.

Regular consultation between Sydney Water, Sydney Water's External Technical Consultant (Civille) and the Burrah Park Development Team was undertaken to facilitate the coordination process. Generally, the Burrah Park development proposal was to be amended to adopt the basin location and sizes proposed under the Integrated Stormwater Scheme.

Following further coordination between Sydney Water, Henry & Hymas and Civille mid December 2025. External catchments pertaining to Elizabeth Drive were amended to be consistent with precinct catchment mapping produced by Civille as part of the Aerotropolis Integrated Stormwater Scheme.

The coordination detailed above resulted in the formation of the amended benchmark Integrated Stormwater Scheme Model which was submitted to Sydney Water late December 2025.

Further amendments were undertaken to the amended benchmark Integrated Stormwater Scheme Model as a result of further commentary provided by Sydney Water documented in the Request for Further Information dated 6th March 2026 (ref 216284) and following workshops held March and April 2026. During this period, the Burrah Park stormwater management system was coordinated the exact catchment distribution detailed in SSD-70818708 and SSD-70817958.

A detailed summary of the development of the amended benchmark Integrated Stormwater Scheme Model is provided in the Civil Engineering Report for Burrah Park - Revision 1.7 submitted 17th April 2026 to Sydney Water and DPHI.

We kindly request that amended benchmark Integrated Stormwater Scheme Model from Burrah Park is requested from Sophie Campos Prolon at Sydney Water, SOPHIE.CAMPOSPROLON@sydneywater.com.au

Catchment Analysis

Within the Integrated Stormwater Scheme Model (MUSIC) the sub-catchment for remaining developable area (ENT1) is simulated with generic catchment distribution. To ensure (SSD-70818708 & SSD-70817958) development proposal is consistent with the Burrah Park development proposal, the wider Integrated Stormwater Scheme and water quality and stormwater flow targets for the Aerotropolis, the proposed catchment distribution of the Subject Lots (Lot 4.1, 4.2, 4.3 and 4.4) (SSD-70818708 & SSD-70817958 development proposal) must be assessed in the amended benchmark Integrated Stormwater Scheme Model (detailed above).

The analysis detailed below aims to accurately simulate the sub-catchments proposed under the development proposal SSD-70818708 & SSD-70817958 within the amended benchmark Integrated Stormwater Scheme Model.

Reference is made to the detailed catchment plans prepared by AT&L for the Subject Lots included in Appendix C of this report:

- 22-993-C1340[B]
- 22-993-C1440[B]
- 22-993-C2040[B]

Reference is made to the catchment plans and summary table prepared by Henry & Hymas for the Burrah Park development proposal included in Appendix D of this report:

240518_DA_C251
240518_DA_C252

The catchment distribution for the Subject Lots shown on the aforementioned detailed catchment plans is shown below in Table 1. It should be noted that minor adjustments to the landscaping area to correspond to the Burrah Park development proposal and are made due to future road dedications.

	Roof Area (Ha)	Hardstand (Ha)	Landscaping (Ha)	Landscaping (Ha) (Adjusted)	Δ Landscaping
4.1	3.060	1.450	0.917	0.917	0.000
4.2	3.366	1.956	0.853	0.841	-0.013
4.3	3.72	1.794	1.807	1.807	0.000
4.4	3.741	1.683	0.622	0.617	-0.005

Table 1: Catchment Distribution for Subject Lots (AT&L 2026)

The Subject Lot's catchment distributions (Table 1) is shown in comparison to the Burrah Park catchment distribution in Table 2 below. From review of Table 2 below It is evident the Subject Lots and Burrah Park development proposals are exactly matched with no variations in the distributions in the catchment distribution.

Lot	Subject Lots - Roof Area (Ha)	Burrah - Roof Area (Ha)	Δ Roof Area	Subject Lots - Hardstand (Ha)	Burrah - Hardstand (Ha)	ΔHardstand Area	Subject Lots - Landscaping (Ha)	Burrah - Landscaping (Ha)	Δ Landscape Area
4.1	3.060	3.060	0.0	1.450	1.45	0.0	0.917	0.917	0.0
4.2	3.366	3.366	0.0	1.956	1.956	0.0	0.841	0.840	0.0
4.3	3.72	3.72	0.0	1.794	1.794	0.0	1.807	1.807	0.0
4.4	3.741	3.741	0.0	1.683	1.683	0.0	0.617	0.616	0.0

Table 2: Catchment Area Comparison

Benchmark Integrated Stormwater Scheme Model

A schematic of the amended benchmark Integrated Stormwater Scheme Model is shown below in Figure 2. The schematic illustrates the interrelationship between source nodes clusters (sub catchments) and treatment nodes (water quality treatment measures) for the entire catchment.

The Subjcet Lots are located in the regional subcatchment designated NG_CC12 relating to Basin NG_CC12 (Basin AB). Refer Drawing 240518_DA_C251 and Drawing 240518_DA_C252 in Appendix C. Compliance points for Water Quality and Flow Targets are shown below in the blue and green squares respectively.

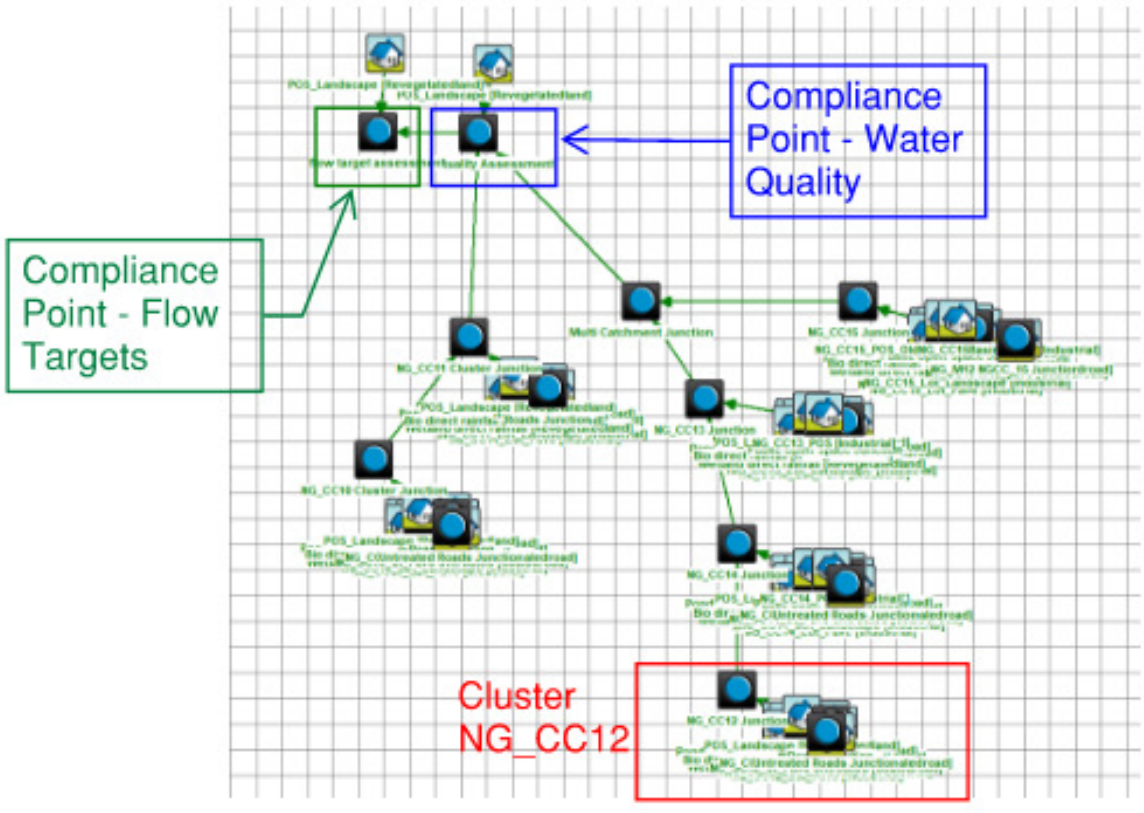


Figure 2: Amended benchmark Integrated Stormwater Scheme Model (Sydney Water & H&H)

A shematic of the sub-catchment model cluster is shown below in Figure 3, with the relevant source nodes pertaining to developable area with Cluster NG_CC12 itendified within the red rectangle. As per suppy of the Sydney Water model, Roof, Harstand and landscaping areas are seperated.

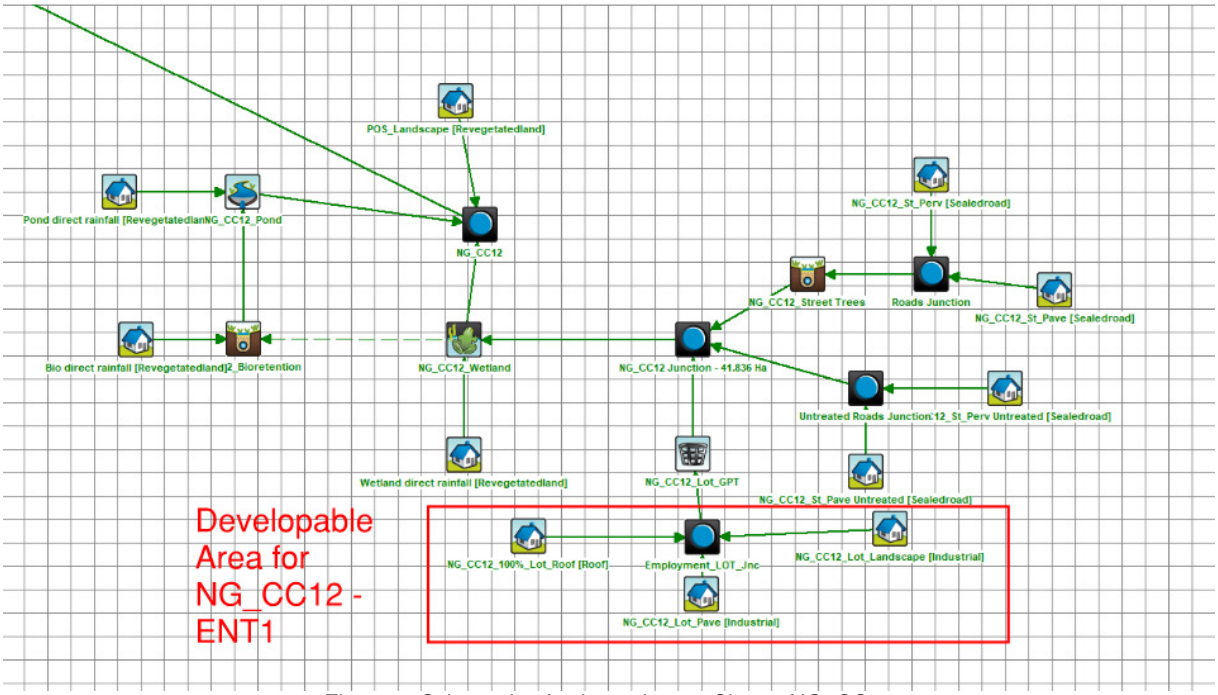


Figure 3: Schematic of sub-catchment Cluster NG_CC12

Amendment of the benchmark integrated stormwater scheme model

As noted in the 'Catchment Analysis' chapter, the subject lots catchment distribution exactly matches the Burrah Park water quality and flow target modelling. As such the following chapter provides a summary of the Subject Lots position within the benchmark integrated stormwater scheme model. The Subject Lots have on stormwater quality and flow targets the source node representing developable area within the NG_CC_C12 catchment was amended to represent the catchment distribution listed in the Subject Lots' reference detailed catchment plans.

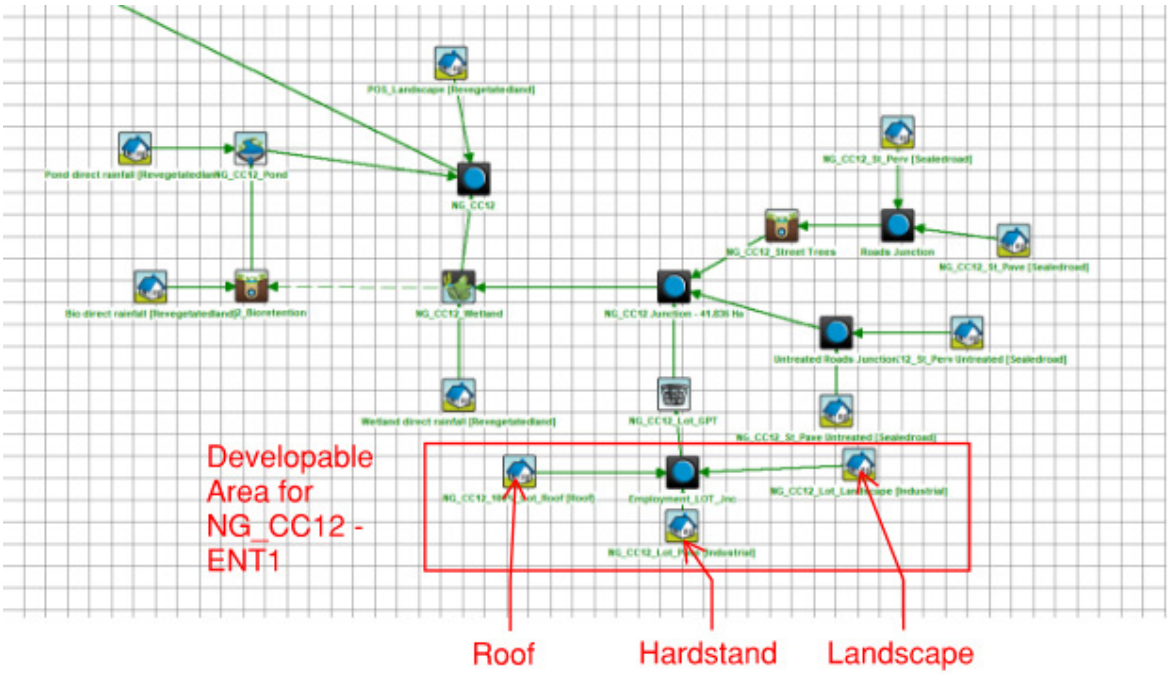


Figure 4: Amended Source Nodes

Table 3 shows the catchment distribution for the NG_CC_12 Cluter source nodes relating to developable area within the subcatchemnt.

Subject Lots - Roof Area (Ha)	Burrah - Roof Area (Ha)	ΔRoof Area	Subject Lots - Hardstand (Ha)	Burrah - Hardstand (Ha)	ΔHardstand Area	Subject Lots - Landscaping (Ha)	Burrah - Landscaping (Ha)	Δlandscape Area
20.723	20.723	0.0	9.731	9.731	0.0	5.891	5.891	0.0

Table 3: Comparison of developable area source nodes

It should be noted that due to the catchments been coordinated between the Burrah Park model and Subject Sites no amendment is required to non-potable reuse parameters. Furthermore, non-potable reuse parameters within the 'ponds' treatment node remains unchanged in the ultimate model scenario as these are based on the scheme-wide estimates and set by Sydney Water in relation to the overall Scheme Plan. Values for scheme-wide were provided for the Ultimate stage model and requested to remain constant by Sydney Water. Additional commentary is provided in the Civil Engineering Report for the Burrah Park Development – Chapter 6.4.

Results – Ultimate Scenario

Water Quality

In accordance with Aerotropolis DCP (2.3.2 – PO1) development must achieve a minimum percentage reduction of the annual loads of pollutants in accordance with Table 4 below.

Parameter	Stormwater Quality Target – Operational Phase
Option 1: Annual Load Reduction	
Gross Pollutants (anthropogenic litter >5mm and coarse sediment >1mm)	90%
Total Suspended Solids (TSS)	90%
Total Phosphorus (TP)	80%
Total Nitrogen (TN)	65%
Option 2: Allowable Loads	
Gross Pollutants (anthropogenic litter >5mm and coarse sediment >1mm)	< 16 kg/ha/y
Total Suspended Solids (TSS)	< 80 kg/ha/y
Total Phosphorus (TP)	< 0.3 kg/ha/y

Table 4: Stormwater Quality Targets - Ultimate

The resultant reduction in post developed pollutants calculated by the simulation for the catchment redistribution within the amended benchmark integrated stormwater scheme model is presented in Table 5 below.

Parameter	Stormwater Quality Target – Operational Phase	Stormwater Quality resultant – Operational Phase (Burrah Park Proposal –Subject Lots' catchment distribution)
Option 1: Annual Load Reduction		
Gross Pollutants (anthropogenic litter >5mm and coarse sediment >1mm)	90%	98.9%
Total Suspended Solids (TSS)	90%	92.1%
Total Phosphorus (TP)	80%	80.1%
Total Nitrogen (TN)	65%	70.9%
Option 2: Allowable Loads		
Gross Pollutants (anthropogenic litter >5mm and coarse sediment >1mm)	< 16 kg/ha/y	N/A. Refer Option 1
Total Suspended Solids (TSS)	< 80 kg/ha/y	N/A. Refer Option 1
Text Total Phosphorus (TP)	< 0.3 kg/ha/y	N/A. Refer Option 1

Table 5: Post development pollutant reduction results – Operation – Ultimate Scenario

As shown in Table 5 above, the catchment from the Subject Lots when simulated in the amended benchmark Integrated Stormwater Scheme Model result in the following:

- The resultant annual load reduction is consistent with the Burrah Park development proposal in the Ultimate Scenario.
- The resultant annual load reduction is below the reduction target for all targeted pollutants and complies with target Annual Load Reductions detailed in Table 4 in the Ultimate Scenario.

Flow Targets

In accordance with the Aerotropolis Precinct Plan and Aerotropolis DCP (2.3.2 – PO2) stormwater flow and volume modelling must been undertaken to ensure development within the Aerotropolis is providing protection, restoration and maintenance of waterways, riparian corridors, water bodies and water dependent ecosystems. Developments within the Aerotropolis must be designed to achieve the following stormwater flow targets shown in Table 6 below.

Parameter	**Stormwater Flow Target – Operational Phase**
Option 1: Mean Annual Runoff	
Mean Annual Runoff Volume (MARV)	≤ 2 ML/ha/year at the point of discharge to the local waterway
90%ile flow	1,000 to 5,000 L/ha/day at the point of discharge to the local waterway
50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway
10%ile flow	0 L/ha/day at the point of discharge to the local waterway
Option 2: Flow Duration Curve	
95%ile flow	3,000 to 15,000 L/ha/day at the point of discharge to the local waterway
90%ile flow	1,000 to 5,000 L/ha/day at the point of discharge to the local waterway
75%ile flow	100 to 1,000 L/ha/day at the point of discharge to the local waterway
50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway
Cease to flow	Cease to flow to be between 10% to 30% of the time

Table 6: Stormwater Flow Targets

The resultant stormwater flow targets calculated by the simulation for the catchment redistribution within the amended Benchmark Integrated Stormwater Scheme model is presented in Table 7 below.

Parameter	Stormwater Flow Target – Operational Phase	Stormwater Flow achieved – Operational Phase. (Burrah Park) including Subject Lots catchment distribution.
Option 1: Mean Annual Runoff		
Mean Annual Runoff Volume (MARV)	≤ 2 ML/ha/year at the point of discharge to the local waterway	1.75
90%ile flow	1,000 to 5,000 L/ha/day at the point of discharge to the local waterway	1,381 L/ha/day
50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway	48 L/ha/ day
10%ile flow	0 L/ha/day at the point of discharge to the local waterway	0 L/ha/ day
Option 2: Flow Duration Curve Approach		
95%ile flow	3,000 to 15,000 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
90%ile flow	1,000 to 5,000 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
75%ile flow	100 to 1,000 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
Cease to flow	Cease to flow to be between 10% to 30% of the time	Na. Refer Option 1

Table 7: Stormwater Flow Target Results

As noted in Table 7 above, the catchment from the Subject Lots when simulated in the amended benchmark Integrated Stormwater Scheme Model result in the following:

- The results storm flows achieve compliance with the stormwater flow targets as well as the target 'Mean Annual Runoff Volume (MARV)".
- The resultant storm flows are consistent with the Burrah Park proposal with no variations in resultant storm flows.

Ultimate Stage Requirements

The Burrah Park stormwater management system is based on the Integrated Stormwater Scheme cluster model provided by Sydney Water. In the Ultimate scenario, to remain consistent with the Development Proposal and achieve Ultimate Stage Water Quality and Stormwater Flow Targets, the Subject Sites must remain consistent with the Integrated Stormwater Scheme, specifically relating to the retention of the boundary GPTs and future connection to the estate purple pipe for internal and external recycled water reuse.

Interim Scenario – Background information

The Burrah Park estate is proposed to be delivered in six stages. As off-site efficiencies are only realised once the infrastructure within the development is connected to the Integrated Stormwater Scheme an in-depth review of stages preceding connection the Scheme is required to ensure that Water Quality and Flow Targets can still be achieved in the interim scenario.

The Subject Lots are proposed to be delivered as part of Stage 1 of the Burrah Park estate. Figure 5 below (excerpt of engineering drawing 240518_DA_C171 In Appendix D) shows the proposed works in Stage 1. A summary of key attributes of Stage 1 is also shown in Table 8 below.

Additional information regarding the staging of the Burrah Park development is included in Chapter 3.2 and Chapter 6.7 of the Civil Engineer Report prepared for the Burrah Park development.

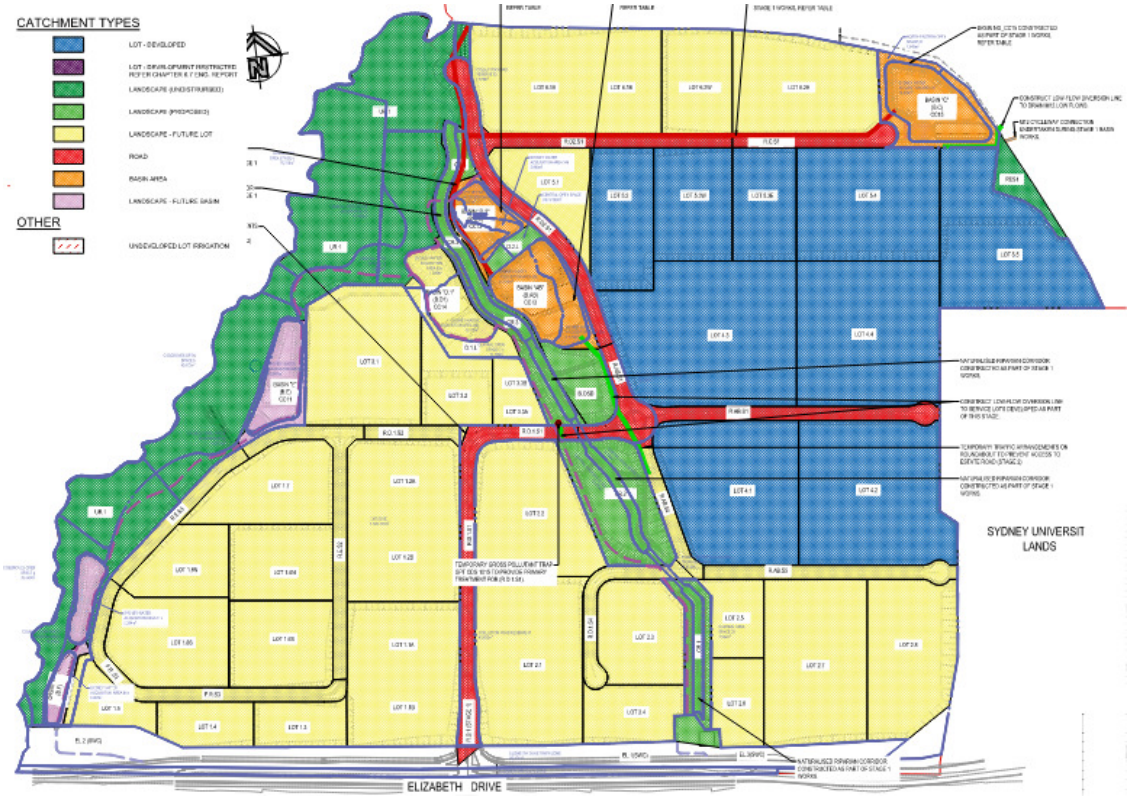


Figure 5: Excert of drawing C171 – Stage 1 Plan

AREA SUMMARY		
STUDY AREA	163.60	ha
ENT - TOTAL	42.05	ha
ON-LOT - PRIVATE	6.75	ha
POS - PUBLIC	28.01	ha
FUTURE LOTS (POTENTIAL)	83.15	ha
REUSE RATES		
ENT - TOTAL	3.2	kL/day
ON-LOT - PRIVATE	3000	kL/ha/year
POS - PUBLIC	6000	kL/ha/year
FUTURE LOTS (POTENTIAL)	6000	kL/ha/year
POTENTIAL REUSE DEMAND		
ENT - TOTAL	134.6	kL/day
ON-LOT - PRIVATE	20240.4	kL/year
POS - PUBLIC	168048.9	kL/year
IRRIGATION OF FUTURE LOTS (MAX)	498873.0	kL/year
IRRIGATION TOTAL (MAX)	687162.3	kL/year
PROPOSED REUSE DEMAND		
ENT - TOTAL	0.00	kL/day
ON-LOT - PRIVATE	0.00	kL/year
POS - PUBLIC	168048.90	kL/year
IRRIGATION OF FUTURE LOTS	0.00	kL/year
IRRIGATION TOTAL	168048.90	kL/year
FUTURE LOT IRRIGATION AREA @ 6000 kL/ha/year	0.00	ha
MODE	WATER QUALITY DRIVEN	

Table 8: Key attributes of Stage 1 – Burrah Park Proposal.

Similarly, with the Ultimate Stage analysis, the amended benchmark Integrated Stormwater Scheme Model provided by Sydney Water is used for assessment of stormwater quality and flow targets in the interim scenario. Throughout the coordination with Sydney Water and associated technical consultants, further adaptations were made to the benchmark scheme MUSIC model to make the model suitable for use as an Interim Stage model, significant adaptations are listed below:

- Removal of external catchments not part of the Burrah Park development proposal – as agreed with Sydney Water.
- Amend reuse demand (internal and external) to be specific for each stage and for the Burrah Park development proposal alone – refer stage breakdown above for available (potential) and required reuse demand.
- Amend source node and treatment node data and configuration to accurately represent development at a given stage – refer individual stages below for description of developed and undeveloped lot areas.

The Burrah Park Stage 1 amended benchmark Integrated Stormwater Scheme Model (shown below) was provided to Sydney Water as part of the April 2026 submission.

Similarly, with the Ultimate Stage confirmation procedure, the relevant source node catchments are exactly matching the catchment distributions in the reference detailed catchment plans for the Subject Lots.

- 22-993-C1340[B]
- 22-993-C1440[B]
- 22-993-C2040[B]

It should be noted that the non-potable reuse parameters within the 'ponds' treatment node remains unchanged in the Stage 1 Interim Scenario as POS – Public irrigaton remains unchanged by the Subject Lots development proposal. As noted in Table 8 above, private on-lot landscape irrigation and internal reuse is not proposed as part of the Stage 1 stormwater management strategy.

Results – Interim Scenario

Water Quality

In accordance with Aerotropolis DCP (2.3.2 – PO1) Interim Scenario development must achieve a minimum percentage reduction of the annual loads of pollutants in accordance with Table 9 below. The resultant reduction in post developed pollutants calculated by the simulation for the catchment distribution within the amended benchmark Integrated Stormwater Scheme Model is also presented in Table 9 below.

Parameter	**Stormwater Quality Target – Interim Phase**	**Stormwater Quality resultant – Interim Phase (Burrah Park Proposal – amended for Subject Lots catchment distribution)**
Option 1: Annual Load Reduction		
Gross Pollutants (anthropogenic litter >5mm and coarse sediment >1mm)	90%	97.5%
Total Suspended Solids (TSS)	90%	90.7%
Total Phosphorus (TP)	80%	80.4%
Total Nitrogen (TN)	65%	74.7%
Option 2: Allowable Loads		
Gross Pollutants (anthropogenic litter >5mm and coarse sediment >1mm)	< 16 kg/ha/y	N/A. Refer Option 1
Total Suspended Solids (TSS)	< 80 kg/ha/y	N/A. Refer Option 1
Text Total Phosphorus (TP)	< 0.3 kg/ha/y	N/A. Refer Option 1

Table 9: Water quality targets and results – Interim Scenario

As noted in Table 9 above, the catchment from the subject site when simulated in the benchmark Integrated Stormwater Scheme Model (Interim – Stage 1 Model) result in the following:

- The resultant annual load reduction is consistent with the Burrah Park development proposal in the Interim Scenario.
- The resultant annual load reduction is reduced below the reduction target for all targeted pollutants and complies with target Annual Load Reductions detailed in Table 9 for the Interim Scenario.

Flow Targets

In accordance with the Aerotropolis Precinct Plan and Aerotropolis DCP (2.3.2 – PO2) development in the Interim Scenario is to achieve the stormwater flow targets shown in Table 10 below. The resultant stormwater flow targets calculated by the simulation for the catchment redistribution within the amended Benchmark Integrated Stormwater Scheme model in the Interim Scenario is presented in Table 10 below.

Parameter	**Stormwater Flow Target – Interim Phase**	**Stormwater Flow achieved – Interim Phase (Burrah Park Proposal – amended for Subject Lots' catchment distribution)**
Option 1: Mean Annual Runoff		
Mean Annual Runoff Volume (MARV)	≤ 2 ML/ha/year at the point of discharge to the local waterway	0.87
90%ile flow	1,000 to 5,000 L/ha/day at the point of discharge to the local waterway	2,033 L/ha/day
50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway	68 L/ha/ day
10%ile flow	0 L/ha/day at the point of discharge to the local waterway	0 L/ha/ day
Option 2: Flow Duration Curve Approach		
95%ile flow	3,000 to 15,000 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
90%ile flow	1,000 to 5,000 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
75%ile flow	100 to 1,000 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
50%ile flow	5 to 100 L/ha/day at the point of discharge to the local waterway	Na. Refer Option 1
Cease to flow	Cease to flow to be between 10% to 30% of the time	

Table 10: Stormwater Flow Targets and Results

As noted in Table 10 above, the catchment from the Subject Lots when simulated in the amended benchmark Integrated Stormwater Scheme Model (Interim – Stage 1 Model) result in the following:

- The results storm flows achieve compliance with the stormwater flow targets as well as the target 'Mean Annual Runoff Volume (MARV)".
- The resultant storm flows are consistent with the Burrah Park proposal with no variations in resultant storm flows.

Interim Requirements

To remain consistent with the Burrah Park Development Proposal and achieve Interim Water Quality and Stormwater Flow Targets, the subject must remain consistent with the interim requirements for Stage 1 of the Burrah Park Proposal. Refer Chapter 6.7 of the Engineering Report for Burrah Park for additional information. Specific to the Subject Lot, the following Interim (stage 1) requirements apply:

- Install Gross Pollutant Trap (GPT) in accordance with Sydney Water requirements prior to discharge of stormwater from each lot into the inground estate road drainage.
- No requirement for internal reuse demand – not required in Stage 1.
- No requirement for private POS irrigation – not required in Stage 1.
- No requirement for irrigation of future lots – not required in Stage 1.

Conclusion

The information used in preparing the MUSIC model and other calculations above has been coordinated with DHL's development team and incorporates design parameters consistent with the proposed DHL development.

The information provided in this compliance letter demonstrates that the estate infrastructure delivered as part of the Burrah Park development proposal satisfies water quality and flow targets in consideration of the SSD-70818708 and SSD-70817958 catchment distribution.

The information provided in this compliance letter demonstrates that the Burra Park industrial estate does not rely on the proposed DHL development for any additional WSUD, MARV, Detention, Retention and/or flood control systems to comply with:

- Sydney Water's Stormwater Scheme Infrastructure Design Guidelines (Draft)
- DPHI's Technical Guidance for Achieving Wiannamatta South Creek Stormwater Management Targets
- DPHI's WSA DCP Phase 2
- PCC's and/or WSPP's stormwater detention and drainage design guidelines.

The proposed DHL development does not need to provide interim WSUD, MARV, Detention, Retention and/or flood control measures during its interim operation phase when the recycled water supply network is not connected to the recycled water supply and while the surrounding properties and upstream catchments remain undeveloped.

The Burrah Park industrial estate will deliver all the required Council and Sydney Water regional stormwater infrastructure necessary to support the proposed DHL development, prior to DHL's OC, including:

- Road drainage system (minor / major)
- Regional detention system
- Regional WSUD and MARV system

Appendix A – Flow Curve – Ultimate Stage

ENTER DEVELOPMENT AREA (in cell F2)		
Development Area	**219.413**	ha (i.e. the total catchment areas used in MUSIC)

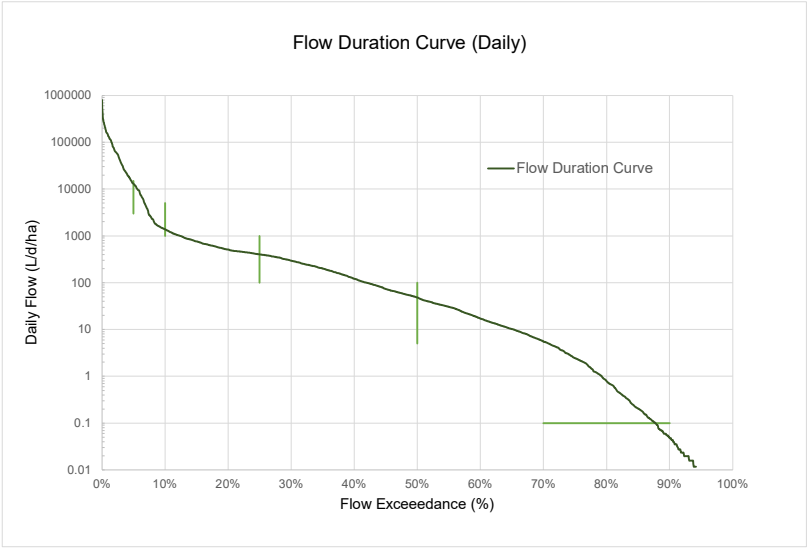
Stormwater Quantity (flow) Targets Option 2- flow percentiles			
Indices	**Result**	**Comply**	**Target**
95%ile	12,880	Yes	3000 to 15000 L/ha/day
90%ile	1,381	Yes	1000 to 5000 L/ha/day
75%ile	403	Yes	100 to 1000 L/ha/day
50%ile	48	Yes	5 to 100 L/ha/day
Cease to Flow	6%	No	10-30%

Stormwater Quantity (flow) Targets Option 1 - MARV			
Indices	**Result**	**Comply**	**Target**
MARV (ML/ha/yr)	1.75	Yes	≤ 2
90%ile	1,381	Yes	1000 to 5000 L/ha/day
50%ile	48	Yes	5 to 100 L/ha/day
10%ile	0	No	0 L/ha/day

Paste daily flow time series from MUSIC

Date	m3/s	L/ha/day
1/01/1999	0.0288275	11351.6337
2/01/1999	0.0650453	25613.4045
3/01/1999	0.0020709	815.474744
4/01/1999	0.00001395	5.49320232
5/01/1999	0.00000576	2.26816096
6/01/1999	0.00000568	2.23665872
7/01/1999	0.0000056	2.20515649
8/01/1999	0.00000552	2.17365425
9/01/1999	0.00000544	2.14215201
10/01/1999	0.00000536	2.11064978
11/01/1999	0.00000529	2.08308532
12/01/1999	0.00000522	2.05552087
13/01/1999	0.00000514	2.02401863
14/01/1999	0.00000507	1.99645418
15/01/1999	0.000005	1.96888972
16/01/1999	0.00000493	1.94132526
17/01/1999	0.00000486	1.91376081
18/01/1999	0.00000479	1.88619635
19/01/1999	0.00037185	146.426328
20/01/1999	0.00204853	806.665931
21/01/1999	0.33344301	131302.503
22/01/1999	1.03736599	408491.847
23/01/1999	0.04082989	16077.9101
24/01/1999	0.00193215	760.838054
25/01/1999	0.11091953	43677.6645
26/01/1999	0.00319628	1258.62457
27/01/1999	0.00018935	74.5618537

Percentile	Flow (L/ha/day)
0.0%	799,147
0.1%	389,097
0.2%	285,975
0.3%	260,430
0.4%	225,709
0.5%	204,558
0.6%	178,223
0.7%	160,453
0.8%	156,075
0.9%	149,917
1.0%	135,209
1.1%	130,845
1.2%	119,773
1.3%	115,603
1.4%	111,283
1.5%	100,580
1.6%	94,325
1.7%	81,457
1.8%	78,128
1.9%	72,839
2.0%	66,487
2.1%	63,456
2.2%	61,837
2.3%	59,446
2.4%	57,198
2.5%	55,012
2.6%	50,594



Appendix B – Flow Curve – Stage 1

ENTER DEVELOPMENT AREA (in cell F2)		
Development Area	**163.6**	ha (i.e. the total catchment areas used in MUSIC)

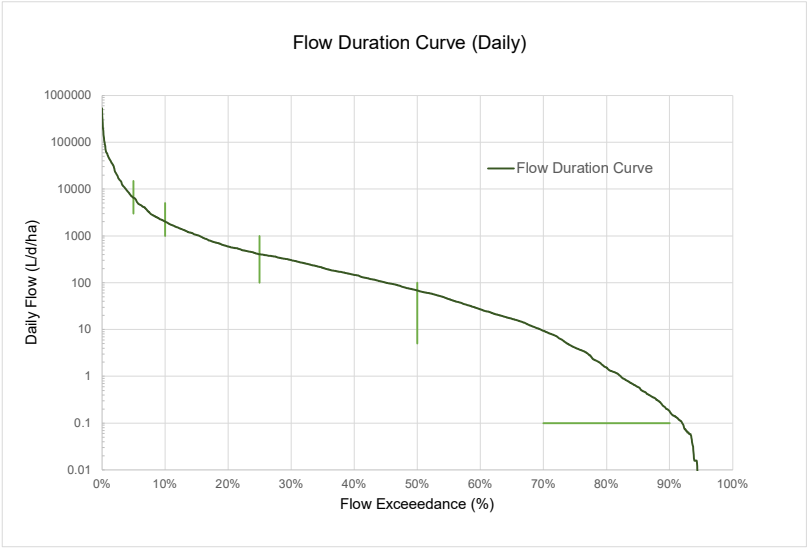
Stormwater Quantity (flow) Targets Option 2- flow percentiles			
Indices	**Result**	**Comply**	**Target**
95%ile	6,476	Yes	3000 to 15000 L/ha/day
90%ile	2,033	Yes	1000 to 5000 L/ha/day
75%ile	406	Yes	100 to 1000 L/ha/day
50%ile	68	Yes	5 to 100 L/ha/day
Cease to Flow	5%	No	10-30%

Stormwater Quantity (flow) Targets Option 1 - MARV			
Indices	**Result**	**Comply**	**Target**
MARV (ML/ha/yr)	0.87	Yes	≤ 2
90%ile	2,033	Yes	1000 to 5000 L/ha/day
50%ile	68	Yes	5 to 100 L/ha/day
10%ile	0	No	0 L/ha/day

Paste daily flow time series from MUSIC

Date	m3/s	L/ha/day
1/01/1999	0.00325304	1717.98689
2/01/1999	0.02227318	11762.853
3/01/1999	0.00006426	33.9368215
4/01/1999	0.00000776	4.09819071
5/01/1999	0.00000765	4.0400978
6/01/1999	0.00000755	3.98728606
7/01/1999	0.00000744	3.92919315
8/01/1999	0.00000734	3.87638142
9/01/1999	0.00000723	3.81828851
10/01/1999	0.00000713	3.76547677
11/01/1999	0.00000703	3.71266504
12/01/1999	0.00000693	3.6598533
13/01/1999	0.00000684	3.61232274
14/01/1999	0.00000674	3.559511
15/01/1999	0.00000665	3.51198044
16/01/1999	0.00000655	3.4591687
17/01/1999	0.00000646	3.41163814
18/01/1999	0.00000637	3.36410758
19/01/1999	0.00050716	267.84
20/01/1999	0.00214265	1131.57066
21/01/1999	0.06616854	34944.7546
22/01/1999	0.42694423	225476.659
23/01/1999	0.01437353	7590.91071
24/01/1999	0.00056369	297.694474
25/01/1999	0.03047564	16094.7145
26/01/1999	0.00140761	743.383276
27/01/1999	0.00003428	18.1038631

Percentile	Flow (L/ha/day)
0.0%	531,311
0.1%	259,642
0.2%	173,952
0.3%	123,601
0.4%	98,619
0.5%	83,082
0.6%	64,474
0.7%	60,152
0.8%	57,682
0.9%	53,499
1.0%	49,377
1.1%	46,287
1.2%	43,769
1.3%	41,367
1.4%	39,382
1.5%	36,553
1.6%	35,454
1.7%	33,367
1.8%	31,781
1.9%	28,977
2.0%	25,303
2.1%	23,321
2.2%	22,156
2.3%	20,863
2.4%	19,851
2.5%	18,549
2.6%	16,993



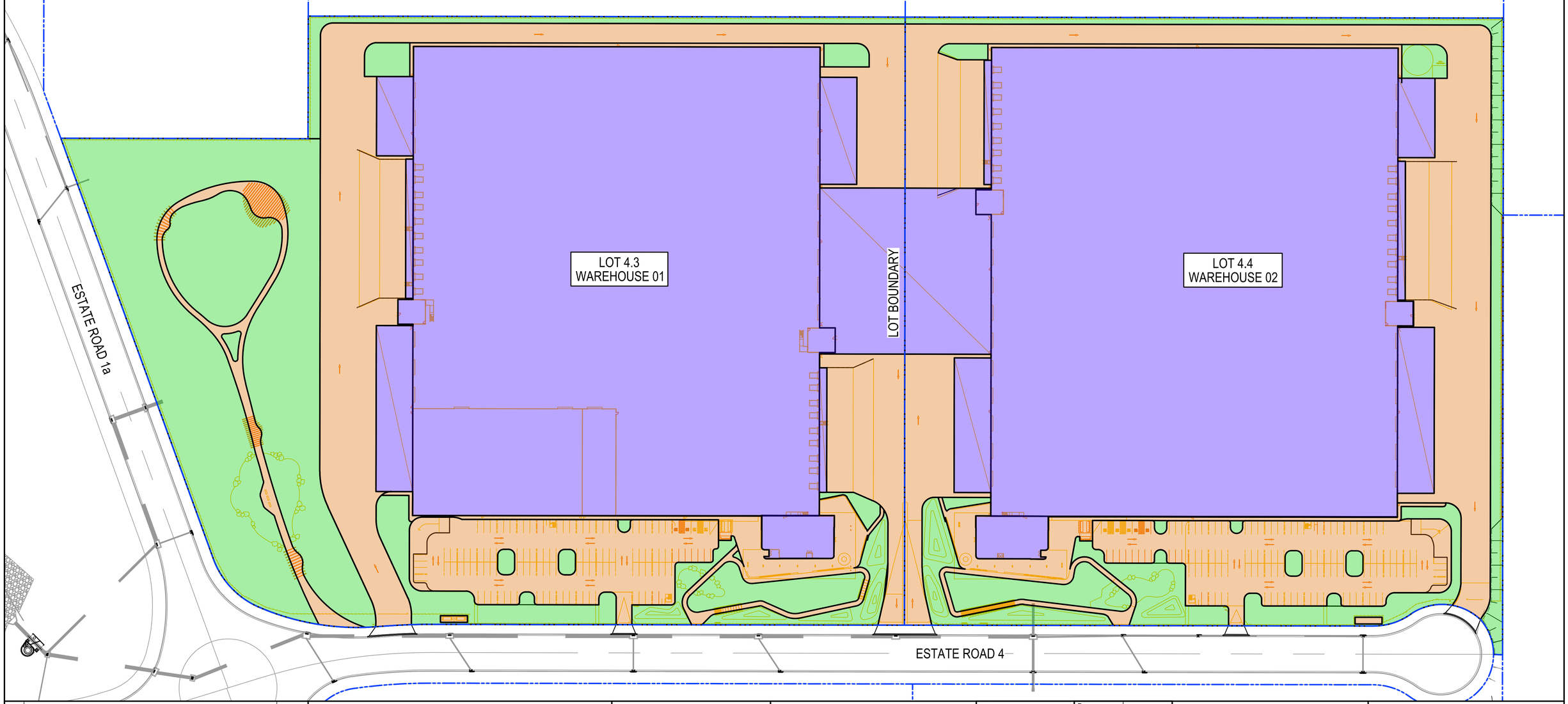
Appendix C – Catchment Plans for Subject Lots

LOT 4.3	AREA
ROOF	3.720 ha
HARDSTAND	1.794 ha
LANDSCAPE	1.807 ha
TOTAL AREA LOT 1	7.321 ha

LOT 4.4	AREA
ROOF	3.741 ha
HARDSTAND	1.683 ha
LANDSCAPE	0.622 ha
TOTAL AREA LOT 1	6.046 ha

LEGEND:

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- FUTURE BOUNDARY
- SITE WORKS AREA
- ROOF
- HARDSTAND
- LANDSCAPE
- BYPASS AREA



Issue	Description	Date
B	ISSUED FOR COORDINATION	15-01-26
A	ISSUED FOR COORDINATION	14-08-25

0 20 40 60 80m

1 : 800 @ A1

Client: DHL

Scales: 1:800 @ A1

Grid: GDA2020

Height Datum: AHD

GDA2020

Drawn	CK
Designed	CK
Checked	CB
Approved	

Project: INDUSTRIAL DEVELOPMENT BURRA PARK

Title: LOT 4.3 & 4.4 (WH 01 & 02) WSUD CATCHMETN PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR COORDINATION
NOT FOR CONSTRUCTION

A1

Project - Drawing No.: 22-993-C2040

Issue: B

100mm on Original

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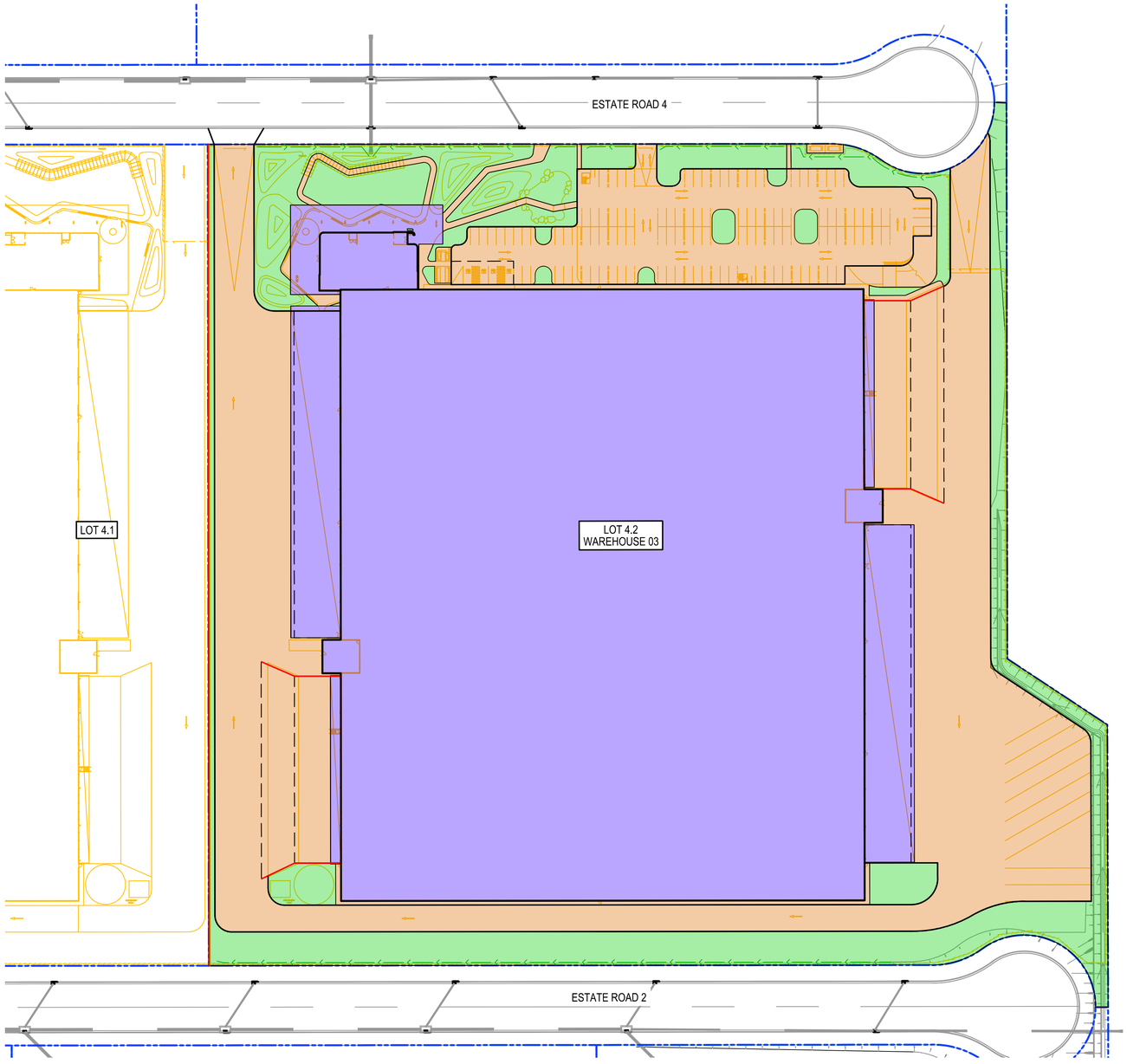

LEGEND:

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- FUTURE BOUNDARY
- SITE WORKS AREA
- ROOF
- HARDSTAND
- LANDSCAPE
- BYPASS AREA

LOT 1	AREA
ROOF	3.366 ha
HARDSTAND	1.956 ha
LANDSCAPE	0.853 ha
TOTAL AREA LOT 1	6.175 ha

Issue	Description	Date
B	ISSUED FOR COORDINATION	15-01-26
A	ISSUED FOR COORDINATION	14-08-25

0 20 40 60 80m

1 : 800 @ A1

100mm on Original

Client: DHL

Scales: 1:800 @ A1

Grid: GDA2020

Height Datum: AHD

GDA2020

Drawn	NT
Designed	BL
Checked	CB
Approved	

Project: BURRA PARK DEVELOPMENT

Title: WSUD CATCHMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT FOR CONSTRUCTION

A1

Project - Drawing No.: 22-993-C1340

Issue: B

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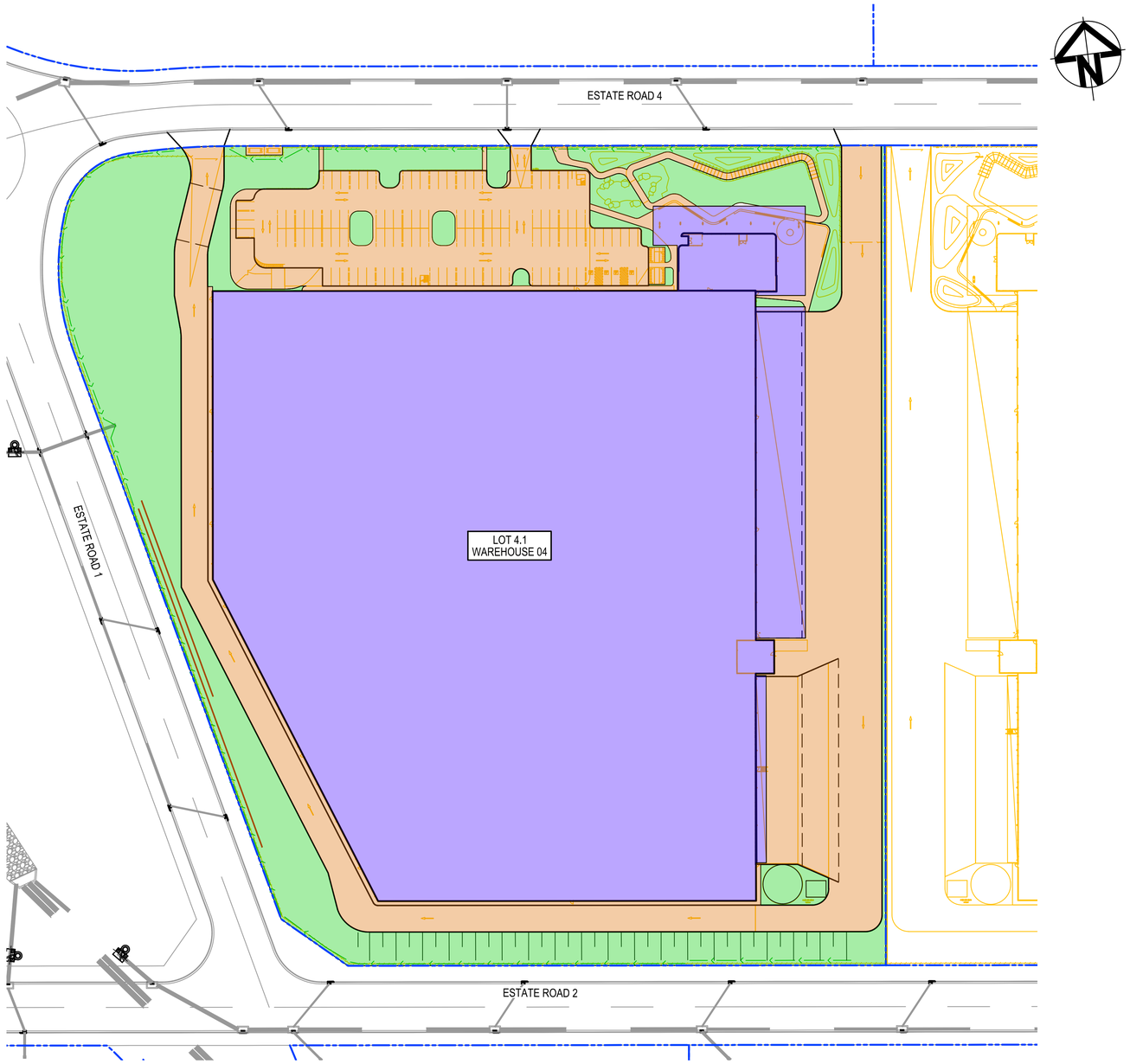

LEGEND:

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- FUTURE BOUNDARY
- SITE WORKS AREA
- ROOF
- HARDSTAND
- LANDSCAPE
- BYPASS AREA

LOT 4.1	AREA
ROOF	3.060 ha
HARDSTAND	1.450 ha
LANDSCAPE	0.917ha
TOTAL AREA LOT 4.1	5.427 ha

Issue	Description	Date
B	ISSUED FOR COORDINATION	15-01-26
A	ISSUED FOR COORDINATION	14-08-25

0 20 40 60 80m

1 : 800 @ A1

Client

DHL

Scales 1:800 @ A1

Grid GDA2020

Height Datum AHD

GDA2020

Drawn	NT
Designed	BL
Checked	CB
Approved	

Project

BURRA PARK DEVELOPMENT

Title

WSUD CATCHMENT PLAN

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Status FOR APPROVAL
NOT FOR CONSTRUCTION

A1

Project - Drawing No. 22-993-C1440

Issue B

100mm on Original

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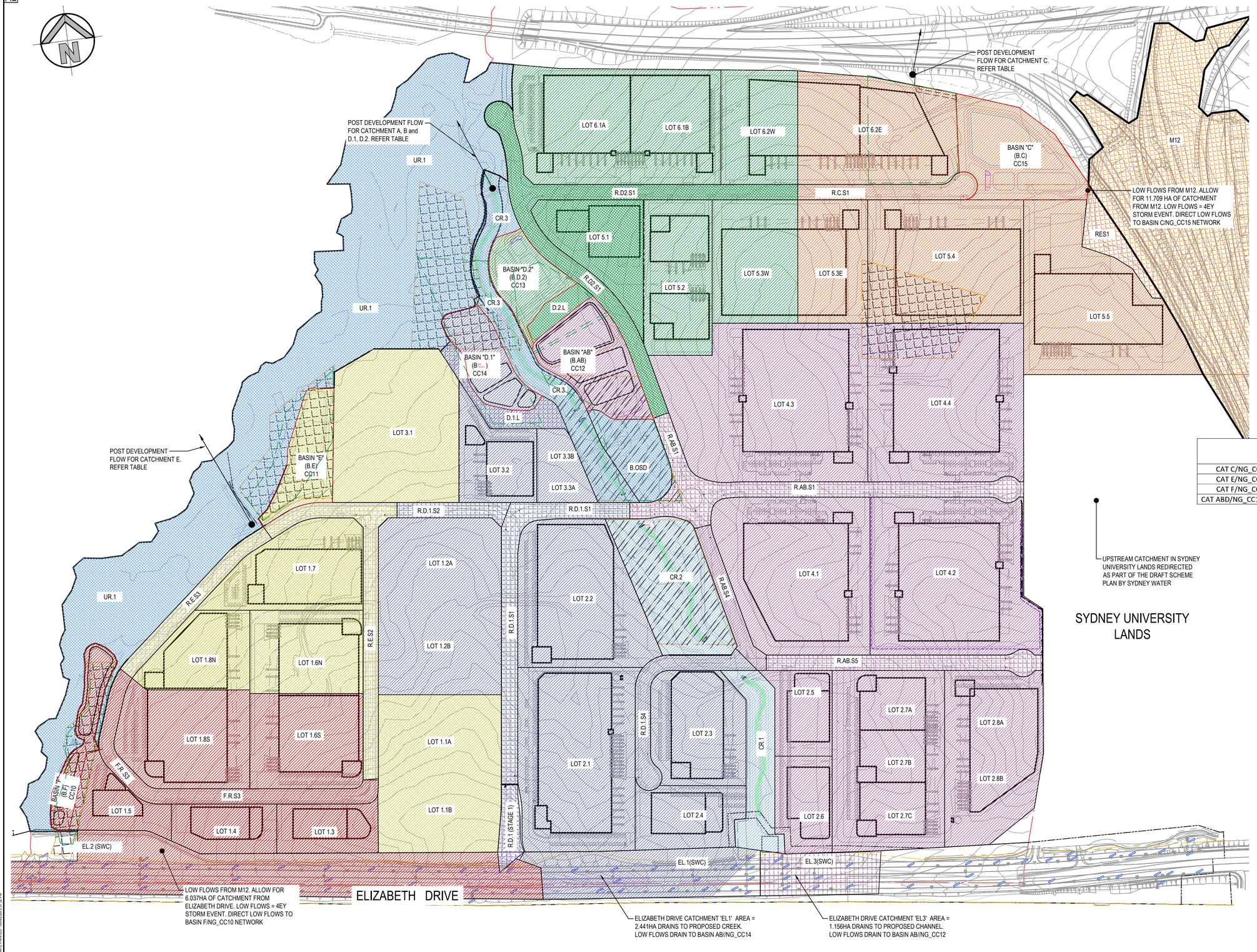
Appendix D – Relevant Drawings from Burrah Park SSDA Package

A1



LEGEND

- PROPOSED BOUNDARY
- EXISTING SITE BOUNDARY
- PROPOSED ROAD BOUNDARY
- PROPOSED LOT BOUNDARY
- ENZ BOUNDARY (INDICATIVE)
- FLOOD EXTENT 1% AEP COSGROVES CREEK
- SYDNEY WATER REGIONAL COMBINED WSUD WETLANDS AND INDICATIVE DETENTION ZONE ALLOCATION (INITIAL PRECINCTS)
- SYDNEY WATER REGIONAL WSUD WETLAND ALLOCATION. (INITIAL PRECINCTS)
- BASIN ALLOCATIONS UNDER AEROTROPOLIS DRAFT INTEGRATED STORMWATER SCHEMES
- PROPOSED AMENDED BASIN ALLOCATIONS FOLLOWING CONSOLATION DURING EXHIBITION PERIOD

IMPORTANT NOTE:
1. REFER C252 FOR DETAILED CATCHMENT SUMMARY
2. REFER C250 FOR PREDEVELOPED CATCHMENT - SYDNEY WATER
3. REFER C290 FOR PREDEVELOPED CATCHMENTS - ONSITE STORMWATER DETENTION
4. REFER C295 FOR IRRIGATION PLAN

CATCHMENT TYPES

- CATCHMENT AB/NG_CC12, REFER C252
- CATCHMENT C/NG_CC15, REFER C252
- CATCHMENT D.1/NG_CC14, REFER C252
- CATCHMENT D.2//NG_CC13, REFER C252
- CATCHMENT E/NG_CC11, REFER C252
- CATCHMENT F//NG_CC10, REFER C252
- RESIDUAL AREAS AND CENTRAL TRUNK DRAINAGE CHANNEL, REFER C252

	Post developed Flow Rate 20% AEP Storm Event (m3/s)	Post Flow Rate 5% AEP Storm Event (m3/s)	Post Flow Rate 1% AEP Storm Event (m3/s)
CAT C/NG_CC15	1.85	3.71	5.66
CAT E/NG_CC11	0.96	2.08	3.66
CAT F/NG_CC10	0.599	1.21	2.13
CAT ABD/NG_CC12,13,14	3.73	7.25	14.6

TABLE: POST DEVELOPED FLOWS

MASTER PLAN
POST-DEVELOPMENT CATCHMENT
SCALE 1:3000

ISSUED FOR SSDA

SURVEY INFORMATION
SURVEYED BY: LTSL
DATUM:AHD
ORIGIN OF LEVELS: PM25501, RL59.659

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	12.12.2025
06	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
05	ISSUED FOR DRAFT	JG	NW	30.05.25
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024
02	ISSUED FOR CONCEPT	LC	NW	16.08.2024
01	ISSUED FOR CONCEPT	LC	NW	25.07.24
08	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	16.04.2026

Client: HB&B Property Pty and ISPT Pty Ltd
Architect / Surveyor: NETTLETONTRIBE

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Web www.henryandhymas.com.au

DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project: BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title: MASTER PLAN POST-DEVELOPMENT CATCHMENT PLAN

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	Approved	Scale @A1
N.Wetzlar	A.Francis	1:3000

Drawing number: 240518_DA_C251
Revision: 08

A1

	Lot #	Lot Area (Ha)	Type	Project Stage	Basin #	Roof Area (Ha)	Hardstand (Ha)	Landscaping (Ha)	Detention Strategy	Water Quality	Gross Pollutant Trap	On-Lot OSD Parameters	Irrigation Classification and Parameters	Irrigation Notes (and staging requirements)
CC12, BASIN AB	2.5	1.2432	ENT - LOT	5	CC12	0.746	0.311	0.186	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	2.6	1.3208	ENT - LOT	5	CC12	0.792	0.330	0.198	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	Stage 5 -On Lot - lot area x 6000kL/ha/year (100% APPLICATION)
	2.7	4.9664	ENT - LOT	5	CC12	2.980	1.242	0.745	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	2.8	3.8635	ENT - LOT	5	CC12	2.318	0.966	0.580	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	4.1	5.4273	ENT - LOT	1	CC12	3.06	1.45	0.9173	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	4.2	6.1625	ENT - LOT	1	CC12	3.366	1.956	0.8405	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	4.3	7.3214	ENT - LOT	1	CC12	3.72	1.794	1.8074	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	4.4	6.0408	ENT - LOT	1	CC12	3.741	1.683	0.6168	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	R.AB.S1	2.1356	ROAD - INT	1	CC12	0.000	1.794	0.342	Communal	Communal - Scheme	na.	0	na.	
	R.AB.S4	0.5892	ROAD - INT	4	CC12	0.000	0.495	0.094	Communal	Communal - Scheme	na.	0	na.	
	R.AB.S5	1.0899	ROAD - INT	5	CC12	0.000	0.916	0.174	Communal	Communal - Scheme	na.	0	na.	
	B.AB	1.9831	WQBASIN	1	CC12	0	REF TABLE 2	REF TABLE 2	Communal	Communal - Scheme	na.	0	POS- remaining landscape area x 0.9 x 6000kL/ha/year (100% APPLICATION)	
	EL.3	1.156	ROAD - EXT	-	CC12	0	0.4393	0.7167	Communal	Communal - Scheme	na.	0	na.	
CC15, BASIN C	5.3E	2.1209	ENT - LOT	1	CC15	1.273	0.530	0.318	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	5.4	4.7261	ENT - LOT	1	CC15	2.836	1.182	0.709	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	5.5	5.0336	ENT - LOT	1	CC15	3.020	1.258	0.755	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	6.2E	4.0871	ENT - LOT	6	CC15	2.452	1.022	0.613	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	Stage 3 - Stage 5 -On Lot - lot area x 6000kL/ha/year (100% APPLICATION)
	R.C.S1	0.7331	ROAD - INT	1	CC15	0.000	0.616	0.117	Bypass	Communal - Scheme	na.	na.	na.	
	B.C.	2.414	WQBASIN	1	CC15	0	REF TABLE 2	REF TABLE 2	Bypass	Communal - Scheme	na.	na.	POS- remaining landscape area x 0.9 x 6000kL/ha/year (100% APPLICATION)	
	RES 1	0.5911	POS - EX	-	CC15	0	0	0.5911	na. external	Communal - Scheme	na.	na.	na.	
	M12	11.709	ROAD - EXT	-	CC15	0	4.597 (SWC)	7.112 (SWC)	na. Low flows (4EY) only	Communal - Scheme	na.	na.	na.	
CC14, BASIN D.1	1.2	5.3189	ENT - LOT	2	CC14	3.591	1.045	0.683	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	2.1	5.2579	ENT - LOT	4	CC14	3.155	1.314	0.789	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	2.2	4.2382	ENT - LOT	4	CC14	2.543	1.060	0.636	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	2.3	2.5351	ENT - LOT	4	CC14	1.521	0.634	0.380	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	2.4	1.6223	ENT - LOT	5	CC14	0.973	0.406	0.243	Communal	Communal - Scheme	On-Lot	0	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	3.2	1.599	ENT - LOT	6	CC14	0.959	0.400	0.240	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	Stage 5 -On Lot - lot area x 6000kL/ha/year (100% APPLICATION)
	3.3	0.8254	ENT - LOT	6	CC14	0.495	0.206	0.124	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	Stage 4 - Stage 5 -On Lot - lot area x 6000kL/ha/year (100% APPLICATION)
	R.D1.S1	1.9882	ROAD - INT	1	CC14	0.000	1.601	0.388	Communal	Communal - Scheme	na.	na.	na.	
	R.D1.S2	0.432	ROAD - INT	2	CC14	0.000	0.363	0.069	Communal	Communal - Scheme	na.	na.	na.	
	R.D1.S4	0.8974	ROAD - INT	4	CC14	0.000	0.754	0.144	Communal	Communal - Scheme	na.	na.	na.	
	D.1.L	0.636	POS - INT	2	CC14	0.000	0.000	0.636	Bypass	Communal - Scheme	na.	na.	POS- 6000kL/ha/year (100% APPLICATION)	
	EL.1	2.441	ROAD - EXT	-	CC14	0	0.92758	1.51342	Communal	Communal - Scheme	na.	na.	na.	
	B.D1	1.2082	WQBASIN	2	CC14	0	REF TABLE 2	REF TABLE 2	Bypass	Communal - Scheme	na.	na.	POS- remaining landscape area x 0.9 x 6000kL/ha/year (100% APPLICATION)	
CC13, BASIN D.2	5.1	2.0085	ENT - LOT	6	CC13	1.205	0.502	0.301	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	Stage 5 -On Lot - lot area x 6000kL/ha/year (100% APPLICATION)
	5.2	2.6229	ENT - LOT	1	CC13	1.574	0.656	0.393	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	6.1	5.7946	ENT - LOT	6	CC13	3.477	1.449	0.869	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	Stage 3 - Stage 5 -On Lot - lot area x 6000kL/ha/year (100% APPLICATION)
	5.3W	2.5951	ENT - LOT	1	CC13	1.557	0.649	0.389	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	6.2W	2.1549	ENT - LOT	6	CC13	1.293	0.539	0.323	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	Stage 3 - Stage 5 -On Lot - lot area x 6000kL/ha/year (100% APPLICATION)
	R.D2.S1	2.5717	ROAD - INT	1	CC13	0.000	2.109	0.463	Bypass	Communal - Scheme	na.	na.	na.	
	D.2.L	0.3526	POS - INT	1	CC13	0.000	0.000	0.353	Bypass	Communal - Scheme	na.	na.	POS- 6000kL/ha/year (100% APPLICATION)	
	B.D2	1.1451	WQBASIN	1	CC13	0	REF TABLE 2	REF TABLE 2	Bypass	Communal - Scheme	na.	na.	POS- remaining landscape area x 0.9 x 6000kL/ha/year (100% APPLICATION)	
CC11, BASIN E	1.1	4.7484	ENT - LOT	2	CC11	3.164	0.903	0.681	On-Lot	Communal - Scheme	On-Lot	Refer D1_C101-C104	na.	
	1.6N	2.3141	ENT - LOT	3	CC11	1.388	0.579	0.347	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	1.7	2.7123	ENT - LOT	3	CC11	1.627	0.678	0.407	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	1.8N	1.7692	ENT - LOT	3	CC11	1.062	0.442	0.265	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	3.1	4.5492	ENT - LOT	2	CC11	3.072	0.696	0.781	On-Lot	Communal - Scheme	On-Lot	Refer D1_C109-C112	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	R.E.S2	1.5133	ROAD - INT	2	CC11	0.000	1.271	0.242	Bypass	Communal - Scheme	na.	na.	na.	
	R.E.S3	0.7536	ROAD - INT	3	CC11	0.000	0.633	0.121	Bypass	Communal - Scheme	na.	na.	na.	
	B.E	1.3337	WQBASIN	2	CC11	0	REF TABLE 2	REF TABLE 2	Bypass	Communal - Scheme	na.	na.	POS- remaining landscape area x 0.9 x 6000kL/ha/year (100% APPLICATION)	
CC10, BASIN F	1.3	1.2337	ENT - LOT	3	CC10	0.7402	0.3084	0.1851	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	1.4	1.2416	ENT - LOT	4	CC10	0.7450	0.3104	0.1862	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	1.5	1.1724	ENT - LOT	4	CC10	0.7034	0.2931	0.1759	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	1.8S	3.0797	ENT - LOT	3	CC10	1.8478	0.7699	0.4620	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	1.6S	2.6372	ENT - LOT	3	CC10	1.5823	0.6593	0.3956	On-Lot	Communal - Scheme	On-Lot	Refer Tables below for PSD	On Lot - Landscpaing area x 3000kL/ha/year (50% APPLICATION) - Stage 5 Onwards	
	R.F.S3	1.4246	ROAD - INT	3	CC10	0.0000	1.1967	0.2279	Bypass	Communal - Scheme	na.	na.	na.	
	EL.2	6.037	ROAD - EXT	-	CC10	0	2.29406	3.74294	na. Low flows (4EY) only	Communal - Scheme	na.	na.	na.	
	B.F	0.974	WQBASIN	3	CC10	0	REF TABLE 2	REF TABLE 2	Bypass	Communal - Scheme	na.	na.	POS- remaining landscape area x 0.9 x 6000kL/ha/year (100% APPLICATION)	
NO BASIN	UR 1	17.4798	POS - INT	-	RESIDUAL	0	0	17.480	Bypass	Communal - Scheme	na.	na.	POS- 6000kL/ha/year (100% APPLICATION)	VMP requires irrigation in VRZs. Refer C295 and Chapter 6.11 of report
	CR 1	1.4507	CHANNEL - INT	-	RESIDUAL	0	0	1.451	Communal	Communal - Scheme	na.	na.	POS- 6000kL/ha/year (100% APPLICATION) (Subtracting LF channel area)	4EY low flow line diverts flow - no low flows VMP requires irrigation, ref 6.11
	CR 2	2.739	CHANNEL - INT	-	RESIDUAL	0	0	2.739	Communal	Communal - Scheme	na.	na.	POS- 6000kL/ha/year (100% APPLICATION) (Subtracting LF channel area)	4EY low flow line diverts flow - no low flows. VMP requires irrigation, ref 6.11
	CR 3	2.3129	CHANNEL - INT	-	RESIDUAL	0	0	2.313	Ref C254, C256)	Communal - Scheme	na.	na.	POS- 6000kL/ha/year (100% APPLICATION) (Subtracting LF channel area)	4EY low flow line diverts flow - no low flows. VMP requires irrigation, ref 6.11
	OSD 1	1.096	CHANNEL - INT	-	RESIDUAL	0	0	1.096	Communal	Communal - Scheme	na.	na.	POS- 6000kL/ha/year (100% APPLICATION) (Subtracting LF channel area)	4EY low flow line diverts flow - no low flows. VMP requires irrigation, ref 6.11

TABLE: WATER QUALITY, REUSE AND DETENTION - LOT SUMMARY

Lot No.	Catchment	20% AEP (m3/s)	5% AEP (m3/s)	1% AEP (m3/s)
1.3	NG_CC10	0.061	0.147	0.302
1.4	NG_CC10	0.060	0.145	0.298
1.5	NG_CC10	0.060	0.145	0.297
1.8S	NG_CC10	0.124	0.284	0.571
1.6S	NG_CC10	0.106	0.243	0.489
1.1	NG_CC11	0.178	0.464	0.941
1.6N	NG_CC11	0.082	0.215	0.438
1.7	NG_CC11	0.135	0.351	0.675
1.8N	NG_CC11	0.068	0.177	0.36
3.1	NG_CC11	0.226	0.588	1.13
5.1	NG_CC13	0.120	0.321	0.47
5.2	NG_CC13	0.159	0.422	0.622
5.3W	NG_CC13	0.157	0.417	0.615
6.2W	NG_CC13	0.131	0.347	0.511
6.1	NG_CC13	0.313	0.838	1.28
5.3E	NG_CC15	0.176	0.436	0.635
5.4	NG_CC15	0.44	1.05	1.5
5.5	NG_CC15	0.36	0.917	1.38
6.2E	NG_CC15	0.38	0.904	1.315
3.2	NG_CC14	0.121	0.309	0.458
3.3	NG_CC14	0.068	0.171	0.250

TABLE: PSD SUMMARY FOR ON-LOT OSD LOTS

ISSUED FOR SSDA

File Path:: R:\JOBS 2024\240518\ACAD\DA\240518_DA_C252.DWG - 240518_DA_C252[08] - DATE PRINTED: 16/04/2026 1:14:03 PM

SURVEY INFORMATION

SURVEYED BY:
LTSL

DATUM: AHD

ORIGIN OF LEVELS:
PM25501, RL59.659

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	12.12.2025
06	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	06.06.2025
05	ISSUED FOR DRAFT	JG	NW	30.05.25
04	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	31.10.2024
03	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	MS	SY	15.10.2024
02	ISSUED FOR CONCEPT	LC	NW	16.08.2024
01	ISSUED FOR CONCEPT	LC	NW	25.07.24
08	ISSUED FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSDA)	JG	NW	16.04.2026

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DRAWING TO BE PRINTED IN COLOUR

henry&hymas

Project
BURRAH PARK
ELIZABETH DRIVE, BADGERY'S CREEK, NSW

Title
WATER QUALITY, REUSE AND DETENTION - LOT SUMMARY

Drawn	Designed	Original issue date
L.Caha	N.Wetzlar	45413
Checked	**Approved**	**Scale @A1**
N.Wetzlar	A.Francis	NTS

Drawing number: 240518_DA_C252
Revision: 08