



EPL 21807 Monitoring Report January 2024

SMWSASSM-PLD-1NL-NL000-EV-RPT-000008

Parklife Metro D&C



Document Approval

Revision	Author	Date	Comments	Reviewed by	Approved by
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Signature					- Com



Contents

1	Intro	duction	5
1.1	Back	ground	5
1.1.1	Statio	ons, Systems, Trains, Operations and Maintenance works	5
1.2	Scop	e of this report	7
2	Repo	orting requirements	7
3	Moni	toring	11
3.1	Weat	her Monitoring	11
3.2	Noise	e and Vibration Monitoring	12
3.3	Wate	r Monitoring	12
3.3.1	Disch	arge to water	12
3.3.2	Surfa	ce water monitoring	13
3.4	Corre	ection Log	15
Appe	ndix A	Weather Observations	17
Appe	ndix B	Noise Monitoring	18
Appe	ndix C	Discharge to water	19
Appe	ndix D	Surface Water Monitoring	20
Appe	ndix E	Premise Maps - January	23



Table of Figures

FIGURE 1 OVERVIEW OF SMWSA PROJECT	6
Table of Tables	
TABLE 1 LICENCE DETAILS	7
TABLE 2 EPL 21807 MONITORING REQUIREMENTS	8
TABLE 3 WEATHER SUMMARY AND TRIGGER WEATHER EVENTS FOR F PERIOD	
TABLE 4 SUMMARY OF NOISE MONITORING FOR REPORTING PERIOD.	12
TABLE 5 MONITORING/DISCHARGE POINTS AND AREAS	14



Introduction

1.1 **Background**

Sydney Metro is Australia's biggest public transport program comprising four main packages of work including Metro North-West Line, Sydney Metro City and Southwest, Sydney Metro West, and Sydney Metro Western Sydney Airport (SMWSA, the Project). The SMWSA will become the transport spine for Greater Western Sydney, connecting communities and travellers with the new Western Sydney International (Nancy-Bird Walton) Airport (referred to as Western Sydney International) and the growing region.

The Project involves the construction and operation of a new metro railway line around 23km in length that extends from the existing Sydney Trains suburban T1 Western Line at St Marys in the north to the new Aerotropolis Station in the south at Bringelly. The alignment includes a combination of tunnel, surface, bridges and viaduct sections, and comprises of six new metro stations between St Marys and the Aerotropolis Core precinct, as well as a stabling and maintenance facility and operational control centre to support the operation of the new metro railway line (see Figure 1).

1.1.1 Stations, Systems, Trains, Operations and Maintenance works

Parklife Metro D&C has been engaged to deliver the Stations, Systems, Trains, Operations and Maintenance (SSTOM) works. The scope of the Stations, Systems, Trains, Operations and Maintenance (SSTOM) package comprises:

- construction of the six new stations
- installation of tracks, signalling, mechanical and electrical systems
- supplying new driverless trains
- construction of stabling and maintenance facility at Orchard Hills
- operation and maintenance of the line and its assets, and
- handback of operations and maintenance at the end of term.



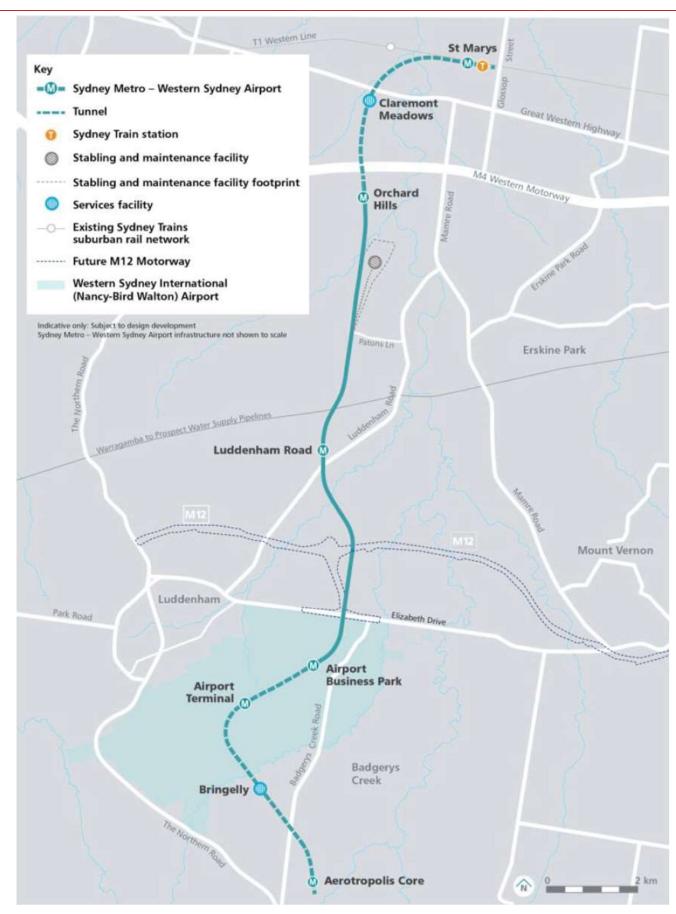


FIGURE 1 OVERVIEW OF SMWSA PROJECT



Scope of this report 1.2

Parklife Metro D&C have been issued an Environment Protection Licence (EPL No. 21807) from the NSW Environment Protection Authority (EPA) for the SMWSA SSTOM Works. The EPL applies to the works approved under the Infrastructure Approval SSI-10051 associated with the delivery of the off-airport portion of the SMWSA SSTOM Works, as detailed in Table 1. This EPL Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21807 within the reporting period as required by Section 66 of the Protection of the Environment Operations Act 1997 (POEO Act) and with reference to EPA Publication Requirements for publishing pollution monitoring data (Environment Protection Authority, 2013).

TABLE 1 LICENCE DETAILS

Licence Details	
Number	21807
Copy of Licence	Environment & Heritage POEO Licences, Application and Notice Detail (nsw.gov.au)
Anniversary Date	20-July
Licensee	WEBUILD S.P.A
Premises	SYDNEY METRO WESTERN SYDNEY AIRPORT SSTOM PACKAGE FOOTPRINT
	SYDNEY METRO WESTERN SYDNEY AIRPORT-STATIONS, SYSTEMS, TRAINS, OPERATION & MAINTENANCE PACKAGE
Scheduled Activity	Railway activities – railway infrastructure construction

Reporting requirements

Under the POEO Act, holders of environment protection licences (licensees) must publish or make pollution monitoring data available to members of the public.

The POEO Act Section 66 requires:

"Conditions requiring monitoring, certification or provision of information, and related offences

- (1) Monitoring The conditions of a licence may require—
 - (a) monitoring by the holder of the licence of the activity or work authorised, required or controlled by the licence, including with respect to-
 - (i) the operation or maintenance of premises or plant, and
 - (ii) discharges from premises, and
 - (iii) relevant ambient conditions prevailing on or outside premises, and
 - (iv) anything required by the conditions of the licence, and
 - (b) the provision and maintenance of appropriate measuring and recording devices for the purposes of that monitoring, and
 - (c) the analysis, reporting and retention of monitoring data.
- (2) False or misleading information A holder of a licence who supplies information, or on whose behalf information is supplied, to the appropriate regulatory authority under the conditions of the licence is guilty of an offence if the information is false or misleading in a material respect."



The primary objective of the EPL Monitoring Report is that members of the public have access to the results of all pollution monitoring (which a licence specifies must be carried out) in a way that is meaningful to them.

The monitoring data that must be published and/or made available on request is any data that is obtained as a result of a monitoring condition on a licence that relates to air, water (surface or groundwater), noise and/or land pollution. The data to be published or provided is limited to data that relates to pollutants generated, discharged or emitted from the licensed premises.

The data is provided in tabular format that is easy for the general public to understand. Tables definitively display raw data values, while graphs and charts are useful for overviews and visualisation of long-term trends. Raw data will be provided upon request.

This EPL Monitoring Report will provide explanations as to why data may appear to be missing, which may be due to there being no discharge or the level of pollutant being below the detection level of the measurement instrument.

It's possible from time to time that incorrect data may get published in good faith. As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

Table 2 provides a summary of the monitoring requirements of EPL 21807.

TABLE 2 EPL 21807 MONITORING REQUIREMENTS

EPL Condition		Report Reference					
Weather							
M5.1	ith and the project weather at the control of a project of a private and the pr	Section 3.1 Appendix A					
	a) be representative of the premises;						
	b) commence prior to any works that may cause sediment to leave the premises; and						
	c) continue to be operated until soil disturbance activities cease at the premises and the site has been stabilised.						
Noise							
L5.9	Works outside of standard construction hours – Regulatory Requirements						
	In undertaking any works and activities outside of standard construction hours under condition L5.8, the licensee must comply with the following:	Appendix B					
	Prepare a construction noise and vibration impact assessment in accordance with the Interim Construction Noise Guideline (DEC, 2009) that is to include:						
	i. a description of the proposed works and activities outside of standard construction hours;						
	ii. predictions of LAeq (15 minute) dB noise levels at noise sensitive receivers from these works and activities, where noise levels are predicted to be greater than those permitted under condition L5.3; and						
	iii. a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the works and activities, including during the period/s predicted to have the highest noise level impacts.						
	b) Undertake noise monitoring in accordance with the monitoring plan required by condition L5.9(a)(iii).						



pouring, finishing and cleaning, are permitted to be undertaken outside of standard construction hours specified in L5.1 provided that: a) Works are required to achieve compliance with overarching project technical requirements, b) Works had already begun within a reasonable time prior to end of standard construction hours, c) Out of Hours (OOH) works are undertaken from 6pm to 10pm, Monday to Friday and 1pm to 4pm on Saturday, d) Station box base slab and wall concreting activities (e.g. using concrete pump, vibrators, concrete trucks, etc) must be completed before 9pm on Monday to Friday, e) Station box base slab and wall concreting activities are permitted to occur up to 9pm Monday to Friday a total of 12 times, f) All other concreting activities (e.g. using concrete pump, vibrators, concrete trucks, etc) must be completed before 8pm on Monday to Friday, g) Concrete finishing works (e.g. power floats, hand tools) must be completed before 10pm on Monday to Friday, h) The licensee is required to undertake noise monitoring in accordance with condition L5.9(b), i) The licensee is required to provide the EPA with a Noise Monitoring Report within 30 days of commencement of works, j) Works are permitted to occur until 14 February December 2024. M4.4 The licensee must undertake noise and vibration monitoring as directed by an authorised officer of the EPA. Where the monitoring is requested to take place on private land (for example a residential property) the licensee must request permission to access the premises in advance and keep a record of permission requests and responses. If a licensee is unable to obtain permission, the licensee must undertake the monitoring at an indicative location where possible and they must provide the response (including any nil response) to the EPA. Community Agreements The licensee may work outside standard construction hours (as defined in L5.1) in circumstances other than those permitted under conditions L5.3, L5.4, or any other condition of the licence, subject to the condit		St Marys Station - Out of Hours Concrete Works	Section 3.2						
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c) be performed on at least the first 2 occasions (day, evening, nights) where OOHW will be undertaken and are likely to impact Noise Sensitive Receivers; d) be performed on any other occasion (day, evening, night) where the nature of the works is likely to cause greater noise impacts than the first 2 occasions; e) be representative of the impacts in terms of monitoring locations, time and duration of measurements; and	The licens under cond E1.4	ty Agreements ee may work outside standard construction hours (as defined in L5.1) in circumstances other than those plations L5.3, L5.4, or any other condition of the licence, subject to the condition outlined Section E1. A noise validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring. Validation monitoring must be undertaken for any OOHW that are the approved under condition	Not triggered						
undertaken and are likely to impact Noise Sensitive Receivers; d) be performed on any other occasion (day, evening, night) where the nature of the works is likely to cause greater noise impacts than the first 2 occasions; e) be representative of the impacts in terms of monitoring locations, time and duration of measurements; and	The licens under cond E1.4	ty Agreements ee may work outside standard construction hours (as defined in L5.1) in circumstances other than those plitions L5.3, L5.4, or any other condition of the licence, subject to the condition outlined Section E1. A noise validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring. Validation monitoring must be undertaken for any OOHW that are the approved under condition E1.1 and must:	Not triggered						
to cause greater noise impacts than the first 2 occasions; e) be representative of the impacts in terms of monitoring locations, time and duration of measurements; and	The licens under cond E1.4	ty Agreements ee may work outside standard construction hours (as defined in L5.1) in circumstances other than those ditions L5.3, L5.4, or any other condition of the licence, subject to the condition outlined Section E1. A noise validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring. Validation monitoring must be undertaken for any OOHW that are the approved under condition E1.1 and must: a) be undertaken in accordance with the monitoring plan prepared under condition E1.4;	Not triggered						
measurements; and	The licens under cond E1.4	ty Agreements ee may work outside standard construction hours (as defined in L5.1) in circumstances other than those ditions L5.3, L5.4, or any other condition of the licence, subject to the condition outlined Section E1. A noise validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring. Validation monitoring must be undertaken for any OOHW that are the approved under condition E1.1 and must: a) be undertaken in accordance with the monitoring plan prepared under condition E1.4; b) be performed by a Competent Person; c) be performed on at least the first 2 occasions (day, evening, nights) where OOHW will be	Not triggered						
f) be recorded and provided to an EPA officer upon request.	The license	ty Agreements ee may work outside standard construction hours (as defined in L5.1) in circumstances other than those ditions L5.3, L5.4, or any other condition of the licence, subject to the condition outlined Section E1. A noise validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring. Validation monitoring must be undertaken for any OOHW that are the approved under condition E1.1 and must: a) be undertaken in accordance with the monitoring plan prepared under condition E1.4; b) be performed by a Competent Person; c) be performed on at least the first 2 occasions (day, evening, nights) where OOHW will be undertaken and are likely to impact Noise Sensitive Receivers; d) be performed on any other occasion (day, evening, night) where the nature of the works is likely	Not triggered						
	The licens under cond E1.4	ty Agreements ee may work outside standard construction hours (as defined in L5.1) in circumstances other than those plations L5.3, L5.4, or any other condition of the licence, subject to the condition outlined Section E1. A noise validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring. Validation monitoring must be undertaken for any OOHW that are the approved under condition E1.1 and must: a) be undertaken in accordance with the monitoring plan prepared under condition E1.4; b) be performed by a Competent Person; c) be performed on at least the first 2 occasions (day, evening, nights) where OOHW will be undertaken and are likely to impact Noise Sensitive Receivers; d) be performed on any other occasion (day, evening, night) where the nature of the works is likely to cause greater noise impacts than the first 2 occasions; e) be representative of the impacts in terms of monitoring locations, time and duration of	Not triggered						



P1.1	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.											
	EPA Identification no	Type of Monitoring Point		pe of Discharge int	Loc	ation Description		Appendix C				
	1	Discharge and Monitoring	Мо	Monitoring I		outlet of the sediment in on the Aerotropolis site charging to Thompson ek referred to in Condition						
	2	Discharge and Monitoring		scharge and initoring	trea Mar	outlet of the water tment plant on the St ys site discharging to th Creek						
M2.2	Water and/ or Land	Monitoring Requireme	ents					Section 3.3.1				
	Pollutant	Unit of measure		Frequency		Sampling Method		Appendix C				
	Oil and Grease	Visible pH		Special Frequen Special Frequen		Visual inspection Probe						
	Turbidity	nephelometric turbi units	dity	Special Frequen		Probe						
	POINT 2											
	Pollutant	Units of measure		Frequency		Sampling Method						
	Aluminium	micrograms per litre		Daily during any G sample discharge	Grab	Grab sample						
	Ammonia	micrograms per litre	!	Daily during any Grab sample discharge		Grab sample						
	Chromium (VI) Compounds	micrograms per litre		Daily during any discharge		Grab sample						
	Copper	micrograms per litre		Daily during any discharge		Grab sample						
	Electrical conductivity	microsiemens per centimetre		Daily during any discharge		Grab sample						
	Nitrogen (total)	micrograms per litre		Daily during any discharge		Grab sample discharge						
	Oil and Grease	Visible		Daily during any discharge		Visual Inspection						
	рН	рН		Daily during any discharge		Probe						
	Phosphorus (total)	micrograms per litre		Daily during any discharge		Grab sample						
	TSS	milligrams per litre		Daily during any discharge		Grab sample						
	Zinc	micrograms per litre		Daily during any discharge		Grab sample						
M2.3		For the purposes of Condition M2.2 and the Table thereto, 'Special Frequency 1' means:										
	a) less than 24 hours discharge, when it is		3.3.1 Appendix C									
	b) when rainfall caus design management	the										
E2.1	The licensee must undertake surface water monitoring of receiving waterways at locations upstream, downstream and adjacent to discharge point 2 identified in Condition P1.1 at fortnightly intervals and at least once during each discharge event. This monitoring must be undertaken for a minimum of 3 months from the date that point 2 was added to the licence.											
	Surface water monit											
	a) quality and quanti	nt 2;										
	b) results must be su occurred for a minim	6										



E3.1	Water Treatment Plant (WTP) Performance Reporting A) The licensee must undertake water quality sampling of all discharges from the WTP (as identified as Point 2 under condition P1.1) and submit to the EPA a WTP Performance Report within 10 business days of each sample result being taken. Sampling must be undertaken: i) daily during discharge ii) as per condition M2.2, following this sampling frequency or as directed by the EPA. ii) as per condition M2.2, following this sampling frequency or as directed by the EPA.		
Additional N	Ionitoring Conditions		
M4.5	The licensee must undertake monitoring, sampling, video recording and/or take photographs: a) if the EPA or licensee reasonably suspects that an event has occurred at the premises or in connection with the carrying out of the activities that has caused, is causing, is likely to cause or has the potential to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies); b) as soon as practicable; and c) as directed by an authorised officer.	Not triggered	

Monitoring

This section presents summaries of the monitoring completed in the reporting period from 1 January 2024 to 31 January 2024.

Detailed monitoring results for each program are presented in the Appendices.

Weather Monitoring 3.1

Meteorological observations were captured using the Bureau of Meteorology Weather Stations - Badgerys Creek (Station 067108). Meteorological data for the month of January can be found within Appendix A.

The total rainfall for this reporting period was 85.0 mm with 10 days exceeding 1mm of rain, 3 days exceeding 10mm of rain and 1 day exceeding 20mm of rain.

During the reporting period, 23 days recorded wind gusts of greater than 25km/hr, 0 days where the maximum wind gust recorded was greater than 50 km/h and 0 days where the maximum wind gust was greater than 60 km/hr. Detailed weather observation records for the reporting period are presented in Appendix A.

This information is used daily on site to assess daily activities and consider mitigation measures as required.



TABLE 3 WEATHER SUMMARY AND TRIGGER WEATHER EVENTS FOR REPORTING PERIOD

Weather Event	Observation
Minimum temperature	14.6°C
Maximum temperature	38.8°C
Total rainfall	85.0mm
Number of days with rain (>1mm)	10
Number of days with rain (>10mm)	3
Number of days with rain (>20mm)	1
Number of days with >25km/h wind gust	23
Number of days with >50km/h wind gust	0
Number of days with >60km/h wind gust	0

Noise and Vibration Monitoring 3.2

Noise monitoring is required under Conditions L5.9 and L5.10 to validate noise predications for work undertaken outside of standard construction hours in accordance with the construction noise and vibration assessment and monitoring plan. Table 4 provides a summary of noise monitoring events during the reporting period. Detailed results and comments are presented in Appendix B.

TABLE 4 SUMMARY OF NOISE MONITORING FOR REPORTING PERIOD

Date	Monitoring Location	Attended / Continuous	Description
12/01/24	Within site boundary	Continuous	Within project boundary adjacent to Phillip Street
30/01/2024	34-36 Phillip St, St Marys NSW 2760	Attended	Busy street opposite PLM site
30/01/2024	2 Station St, St Marys NSW 2760	Attended	Quiet street adjacent to PLM light vehicle route

Water Monitoring 3.3

3.3.1 Discharge to water

Discharge of water from one sediment basin, EPA Point 1, occurred during this reporting period.

The water treatment plant, EPA Point 2, is required to be sampled daily during discharge events. During this reporting period, the WTP discharged to stormwater 0 times.



Basins and discharge points are summarised in Table 5 and monitoring results included in Appendix C.

3.3.2 Surface water monitoring

As per Condition E2.1 fortnightly sampling is required for the receiving waterway at locations upstream, downstream and adjacent to SSTOM-002 discharge point. The surface water quality results are included in Appendix D.



TABLE 5 MONITORING/DISCHARGE POINTS AND AREAS

ID	Construction Status	EPA ID	Easting	Northing	Description of location of discharge point	Catchment name	Name of nearest waters Direct discharge to waters		Date added to EPL
SSTOM-001	Active	1	290807.84	6243844.20	The outlet of the sediment basin on the Aerotropolis site discharging to Thompson Creek	South Creek	Thompsons Creek	No	14/11/2023
SSTOM-002	Active	2	294041.62	6261905.98	The outlet of the water treatment plant on the St Marys site at former Plaza	South Creek	South Creek	No	15/12/2023



Correction Log 3.4

It is possible from time to time for incorrect data to get published in good faith.

As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

There are no matters included in the correction log for this reporting period.



Appendices



Appendix A Weather Observations

	Temperature			perature Rainfall Wind Observations						Morning (9am) Weather Observation					Afternoon (3pm) Weather Observation				
Date	Minimum	Maximum	In the 24 hours to	Direction of maximum	Speed of maximum wind	Time of maximum wind	Temperature	9am relative	Wind	Wind speed	9am MSL pressure	Temperature	9am relative	Wind	Wind speed	3pm MSL			
	(°C)	(°C)	9am (mm)	wind gust	gust (km/h)	gust	(°C)	humidity (%)	direction	(km/h)	(hPa)	(°C)	humidity (%)	direction	(km/h)	pressure (hPa)			
1/01/2024	16.8	23.3	, ,	ENE	26	12:45	20.9	82	NW	4	1023.5	21.2	85		Calm	1020.9			
2/01/2024	19.1	28.9		E	31	18:51	23.1	76	NE	2	1020.3	27.9	59	E	13	1016.6			
3/01/2024	18.5	32	0	ESE	28	13:36	23.6	71	ENE	4	1017.4	27.5		ESE	19	1013.7			
4/01/2024	18.7	29.3	1	SE	28	12:05	23.4	83	WSW	6	1015.5	22.5	82	E	11	1016.8			
5/01/2024	18.5	25.2	7.8	SE	31	10:41	20.6	76	SSW	17	1022.2	23.8	56	SSE	13	1021.2			
6/01/2024	14.6	27.5	0.2	ESE	33	15:46	21.6	67	SSW	7	1023	25.2	53	ENE	15	1019.8			
7/01/2024	16.3	30.6	0	ENE	33	17:28	22.4	69	N	7	1019.5	29.9	52	NE	15	1014.6			
8/01/2024	19.4	25.1	0	NE	28	12:50	22.4	72	E	6	1012	23.3	90	NNE	15	1009.4			
9/01/2024	17.4	29.4	6.4	SSE	31	14:16	24.2	75	ESE	6	1012.9	25.8	63	Е	19	1011.6			
10/01/2024	20.1	31.3	0.2	N	26	14:07	23.4	77	ESE	7	1015.1	30.1	57	NNE	17	1012.3			
11/01/2024	20	32.2	0	ESE	37	15:15	24	86	NE	7	1019	29.8	58	ESE	22	1018.6			
12/01/2024	21.2	29.6	15	ENE	33	11:33	24.2	78		Calm	1021.5	28.8	60	ENE	19	1018.5			
13/01/2024	18.3	33.8	3	E	28	15:27	24.4	77	E	4	1016.8	32.3	43	NNW	6	1012.4			
14/01/2024	20.3	27.8	0	SE	37	12:49	23.4	68	SSW	11	1018	22.4	97	S	15	1017.8			
15/01/2024	17.6	22.6	23	SSW	33	10:03	17.8	99	SSW	17	1022.4	21.4	72	S	15	1021.8			
16/01/2024	16.7	25.1	3	ENE	30	13:39	20.5	86	WSW	6	1018.9	21	85	ENE	15	1015			
17/01/2024	20.4	27.5	5.2	WSW	30	15:46	23.4	83	ENE	9	1010	25.9	78	NNW	6	1005.4			
18/01/2024	20	31.6	15	WNW	43	12:44	24.5	85	NNE	4	1002.9	30.8	37	WNW	28	1001.4			
19/01/2024	15.2	30.7	0.2	ESE	33	16:47	22.3	46	SW	7	1007.2	30.1	33	E	4	1006.4			
20/01/2024	20.1	27.9	0	E	31	14:55	22.9	70	NE	15	1012.2	26.6	62	NE	17	1008.8			
21/01/2024	18.2	38.8	0	W	46	16:20	23.8	74	NE	2	1006.6	37.3	29	N	17	1001.8			
22/01/2024	20	24.8	0	SSE	26	8:25	20.5	72	SE	13	1012	23.3	58	ESE	15	1012.3			
23/01/2024	17.4	27.1	0.2	ENE	30	16:52	20.4	81	ESE	6	1016.3	26.3	58	E	15	1013.9			
24/01/2024	14.9	30.3	0	NNE	22	10:38	21.7	69	N	7	1013.7	29.7	52		7	1010.2			
25/01/2024	21.5	31.1	0	ENE	24	13:47	26.4	74	NNE	6	1009.4	30.1	62	E	15	1008			
26/01/2024	20.5	38		NW	46	13:07	29.3		SW	4	1001.1	36.8		WNW	39	999.6			
27/01/2024	18.8	24.3	3.2		20	15:49	19.7	100		4		21.5		ENE	9				
28/01/2024	16.8	29.1		SE	28	15:05	22.3	100		11		27.8		ESE	11				
29/01/2024	19.1	33.1		SSE	28	16:13	24.2	72	WSW	4	1013	32.1		NE	11	1008.2			
30/01/2024	22.9	27		SSE	22	9:14	25.1	83	S	9	1013.8	26.3	70	SE	6	1012.7			
31/01/2024	20.9	27.8	2.4	SE	26	17:16	23.1	87	ESE	6	1013.4	25.4	73	SE	9	1012.1			

NOTE: Red Text denotes data that was missing from Badgerys Creek AWS (Station 067108) and has been sourced from Penrith Lakes AWS (Station 067113)



Appendix B Noise Monitoring

Date	Time	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Predicted (dBA)	Recorded LA _{eq(15min)} (dBA)	LAmax	Exceedance of Predicted (dBA)	Exceedance of Predicted	Comments
12/01/2024	18:30 pm	Concrete pouring OOH	SSTOM St Marys	SiteHive located within project boundary adjacent to Phillip Street	42	63	58.95	73.4	-4.05	No	Predicted noise is provided from the worst impacted receiver identified in the DNVIS, whereas this monitoring point was situated closer to the works, and inside the existing noise walls, providing a very conservative result.
30/01/2024	01:59 pm	Concrete pouring	SSTOM St Marys	2 Station St, St Marys NSW 2760	47	69	59.1	72.3	-9.9	No	Verification noise monitoring carried out during standard construction hours to support extension of EPL Cond L5.10. Construction activities were dominant noise source.
30/01/2024	02:22 pm	Concrete pouring	SSTOM St Marys	34-36 Phillip St, St Marys NSW 2760	47	69	61.0	76.3	-8	No	Verification noise monitoring carried out during standard construction hours to support extension of EPL Cond L5.10. Extraneous activities primarily consisting of light vehicles were dominant noise source.



Appendix C Discharge to water

Discharge Monitoring Point ID	Type of Monitoring Point	Type of Discharge Point	Date	Discharge Permit No.	Oil and Grease (Visual inspection)	pH (6.5 - 8.5)	Turbidity (50 NTU)
SSTOM-001	Sediment Basin	Discharge into stabilised spillway	08/01/2024	PMJV-ENV- DWP-8	Not visible	7.76	40.0
SSTOM-001	Sediment Basin	Discharge into stabilised spillway	24/01/2024	PMJV-ENV- DWP-9	Not visible	8.10	28.5



Appendix D Surface Water Monitoring

	SSTOM-002 Surface Water South Creek								
Analyte	Post Rain Event	No							
	Date	04/01/2024							
	Unit	Upstream	Downstream	Adjacent					
рН	рН	7.21	7.65	7.59					
Aluminium	mg/L	0.95	0.76	0.79					
Electrical Conductivity @ 25°C	μS/cm	921	928	921					
Total Suspended Solids	mg/L	30	23	24					
Copper	mg/L	0.005	0.003	0.012					
Ammonia	mg/L	0.95	0.76	0.79					
Nitrogen (total)	mg/L	1.1	0.9	0.9					
Oil and Grease	Visible/Not visible	Not visible	Not visible	Not visible					
Phosphorus (total)	mg/L	0.11	0.10	0.10					
Zinc	mg/L	0.009	0.006	0.011					
Chromium (VI) Compounds	mg/L	<0.01	<0.01	<0.01					

NOTE: Error from the lab as samples collected were tested after the normal waiting time for samples.



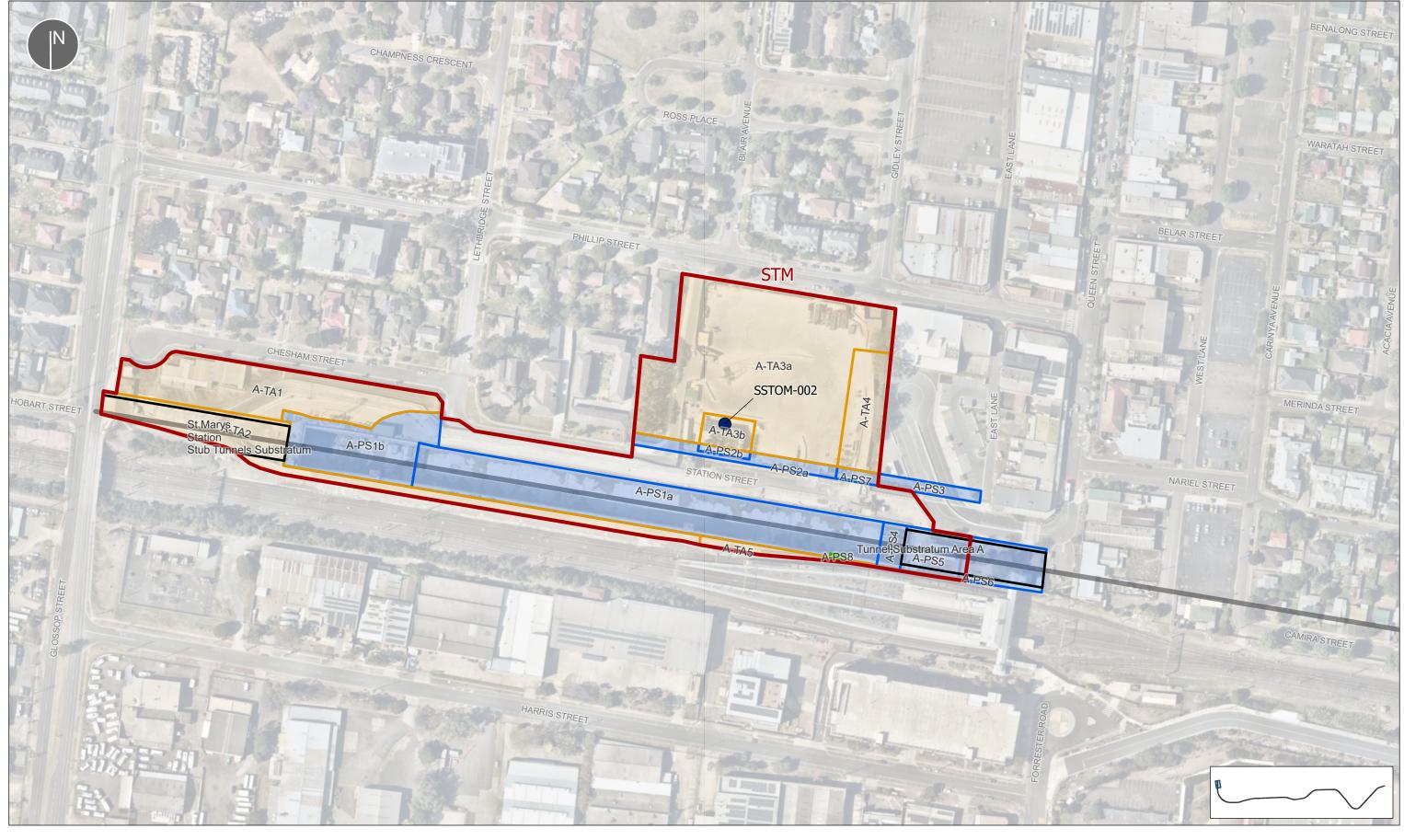
	SSTOM-002 Surface Water South Creek								
Analyte	Post Rain Event	Yes							
,	Date	18/01/2024							
	Unit	Upstream	Downstream	Adjacent					
рН	рН	7.23	7.74	7.72					
Aluminium	mg/L	1.72	1.22	1.66					
Electrical Conductivity @ 25°C	μS/cm	688	677	674					
Total Suspended Solids	mg/L	59	59	57					
Copper	mg/L	0.005	0.005	0.005					
Ammonia	mg/L	0.06	0.06	0.06					
Nitrogen (total)	mg/L	0.9	1.1	1.1					
Oil and Grease	Visible/Not visible	Not visible	Not visible	Not visible					
Phosphorus (total)	mg/L	0.13	0.13	0.27					
Zinc	mg/L	0.019	0.014	0.015					
Chromium (VI) Compounds	mg/L	<0.01	<0.01	<0.01					

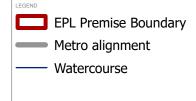


	SSTOM-002 Surface Water South Creek								
Analyte	Post Rain Event	Yes							
,	Date	31/01/2024							
	Unit	Upstream	Downstream	Adjacent					
рН	рН	7.88	7.59	7.95					
Aluminium	mg/L	0.66	0.71	3.30					
Electrical Conductivity @ 25°C	μS/cm	896	893	747					
Total Suspended Solids	mg/L	25	20	139					
Copper	mg/L	0.004	0.004	0.016					
Ammonia	mg/L	0.07	0.06	0.04					
Nitrogen (total)	mg/L	0.8	1.3	0.9					
Oil and Grease	Visible/Not visible	Not visible	Not visible	Not visible					
Phosphorus (total)	mg/L	0.10	0.13	0.16					
Zinc	mg/L	0.012	0.011	0.058					
Chromium (VI) Compounds	mg/L	<0.01	<0.01	<0.01					



Appendix E Premise Maps - January





Site Access Schedule
Aerial Stratum

Project Site
Substratum

Temporary Area
Discharge Points

Water Treatment Plant



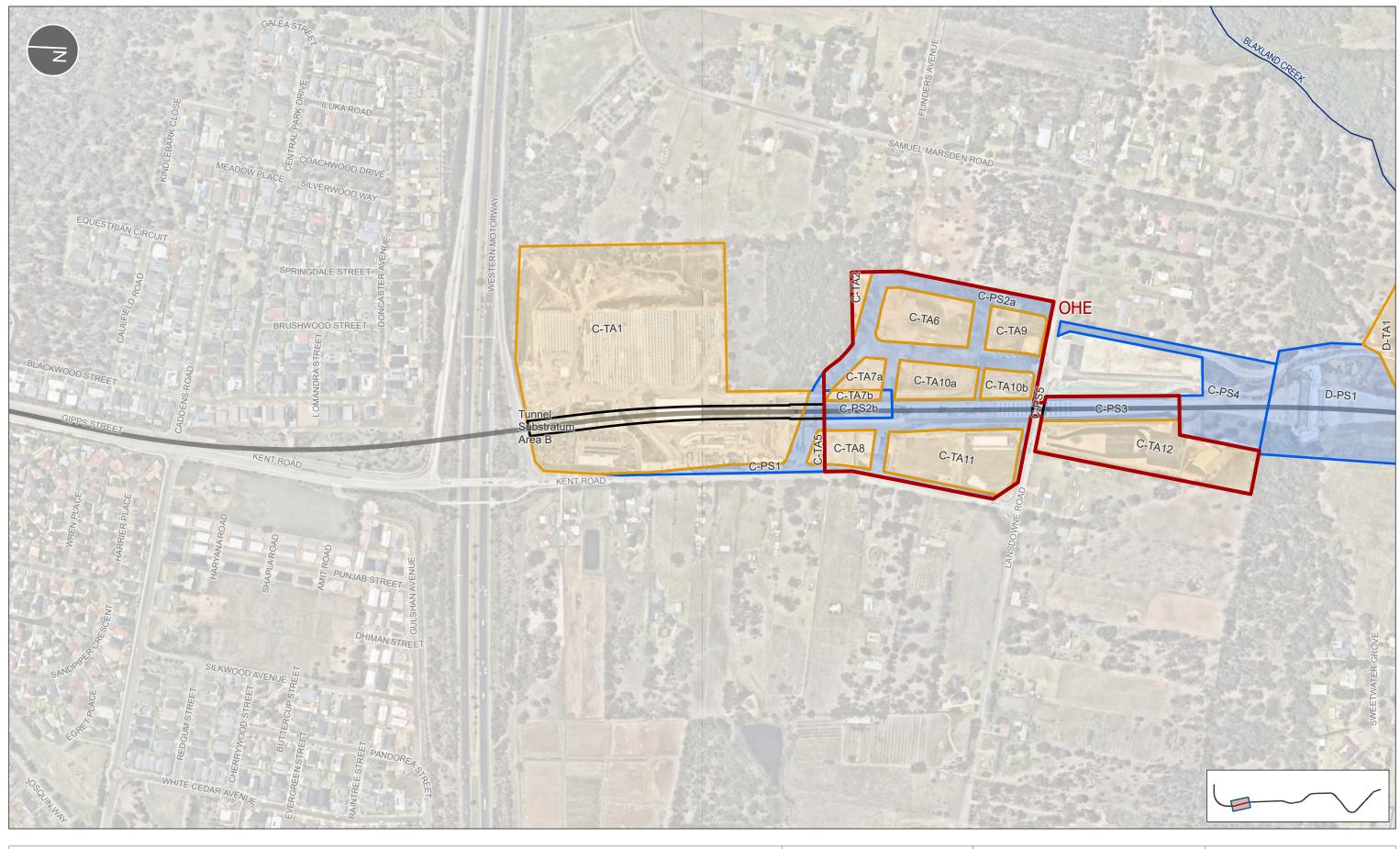
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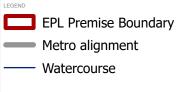
EPL 21807 PREMISE BOUNDARY

40

SHEET	COORDINATE SYSTEM	REVIEW	DATE	04/0004	ENV-GIS-000001_14 ,
1:2,000	A3	DRAWN BY	MS	ROVED	MAP# SMWSASSM-PLD-1NL-
Sydney Metro – Wes	stern Sydney Airport - SST	ОМ	Syc	dney Metro	
			14	29.01.2024	Premise Map update
			13	17.01.2024	Premise Map update
			12	22.12.2023	Premise Map update
			11	15.12.2023	Premise Map update
			10	01.12.2023	Premise Map update
EPL Premise Boundary Map			09	23.11.2023	Premise Map update
NOTES			REV	DATE	DESCRIPTION

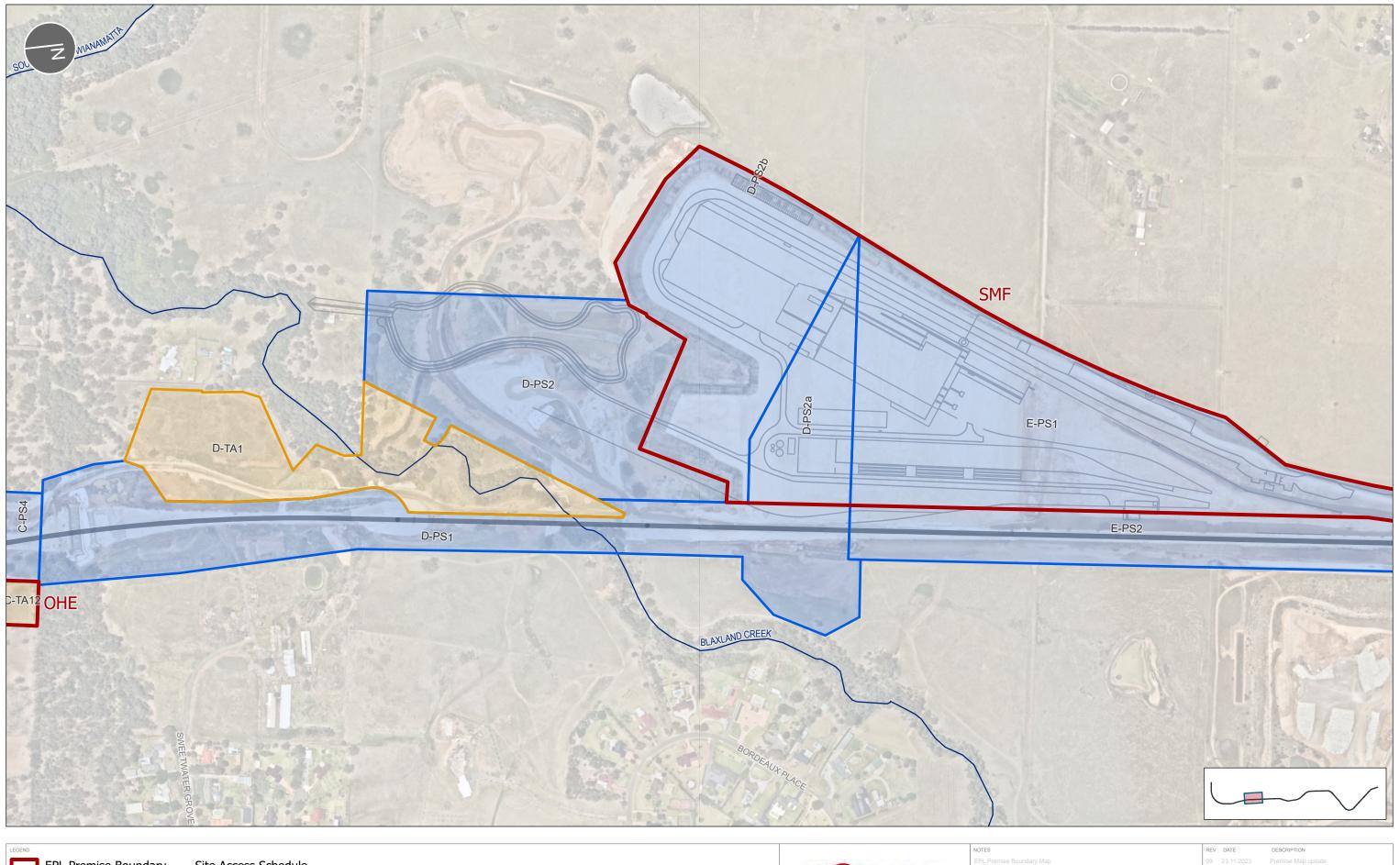
SHEET COORDINATE SYSTEM REVIEW DATE 29/01/2024 ENV-GIS-000001_14 14





Site Access Schedule
Project Site
Substratum
Temporary Area

			NOTES			REV DATE	DESCRIPTION
			EPL Premise Bound	ary Map		09 23.11.202	3 Premise Map update
Darklife						10 01.12.202	3 Premise Map update
1.0	Parklife Metro D&C					11 15.12.202	3 Premise Map update
						12 22.12.202	3 Premise Map update
1000						13 17.01.202	4 Premise Map update
						14 29.01.202	4 Premise Map update
EPL 2180	EPL 21807 PREMISE BOUNDARY			– Western Sydney Airport - SST	ОМ	Sydney Me	tro
			1:5,000	A3	DRAWN BY	APPROVED MS	MAP# SMWSASSM-PLD-1NL-
0	100 200m		SHEET COORDINATE SYSTEM REVIEW MS		DATE 29/01/2024 ENV-GIS-000001_14		
-			MAPOLOGY	for CHBJV - GIS MAP file : SSTOM_ENV_I	EPL C:\Live_F	Projects\sstom_gis\a	a_current\maps\Environment\SSTOM_ENV_EPL.aprx

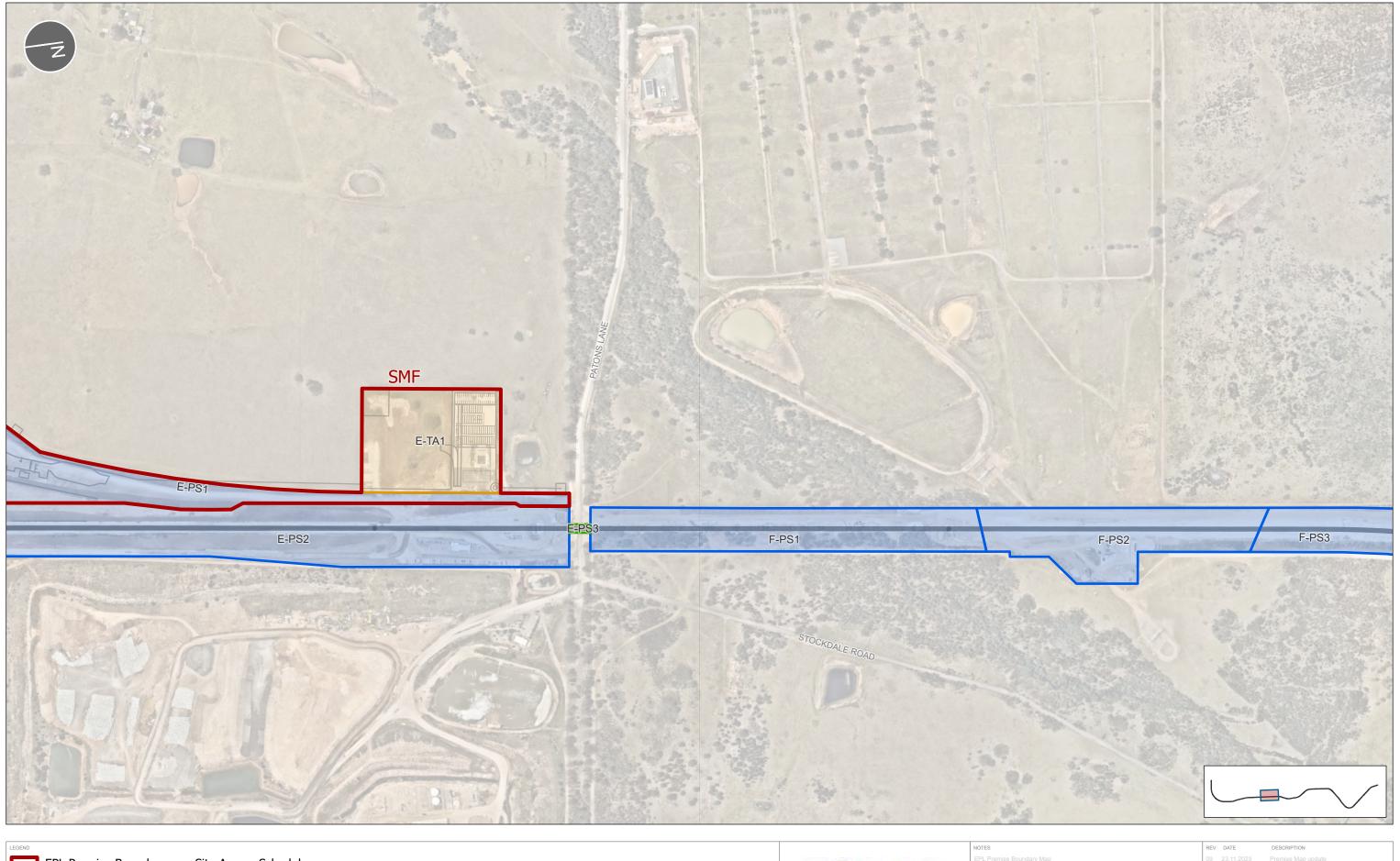


EPL Premise BoundaryMetro alignmentWatercourse

Site Access Schedule
Project Site
Temporary Area

| EPL Premise Boundary Map | 09 23.11.2023 | Premise Map update | 10 01.12.2023 | Premise Map update | 11 15.12.2023 | Premise Map update | 12 22.12.2023 | Premise Map update | 12 22.12.2023 | Premise Map update | 13 17.01.2024 | Premise Map update | 14 29.01.2024 | Premise Map update | 14 29.01.2024 | Premise Map update | 14 29.01.2024 | Premise Map update | 15 000 | No. 10 000

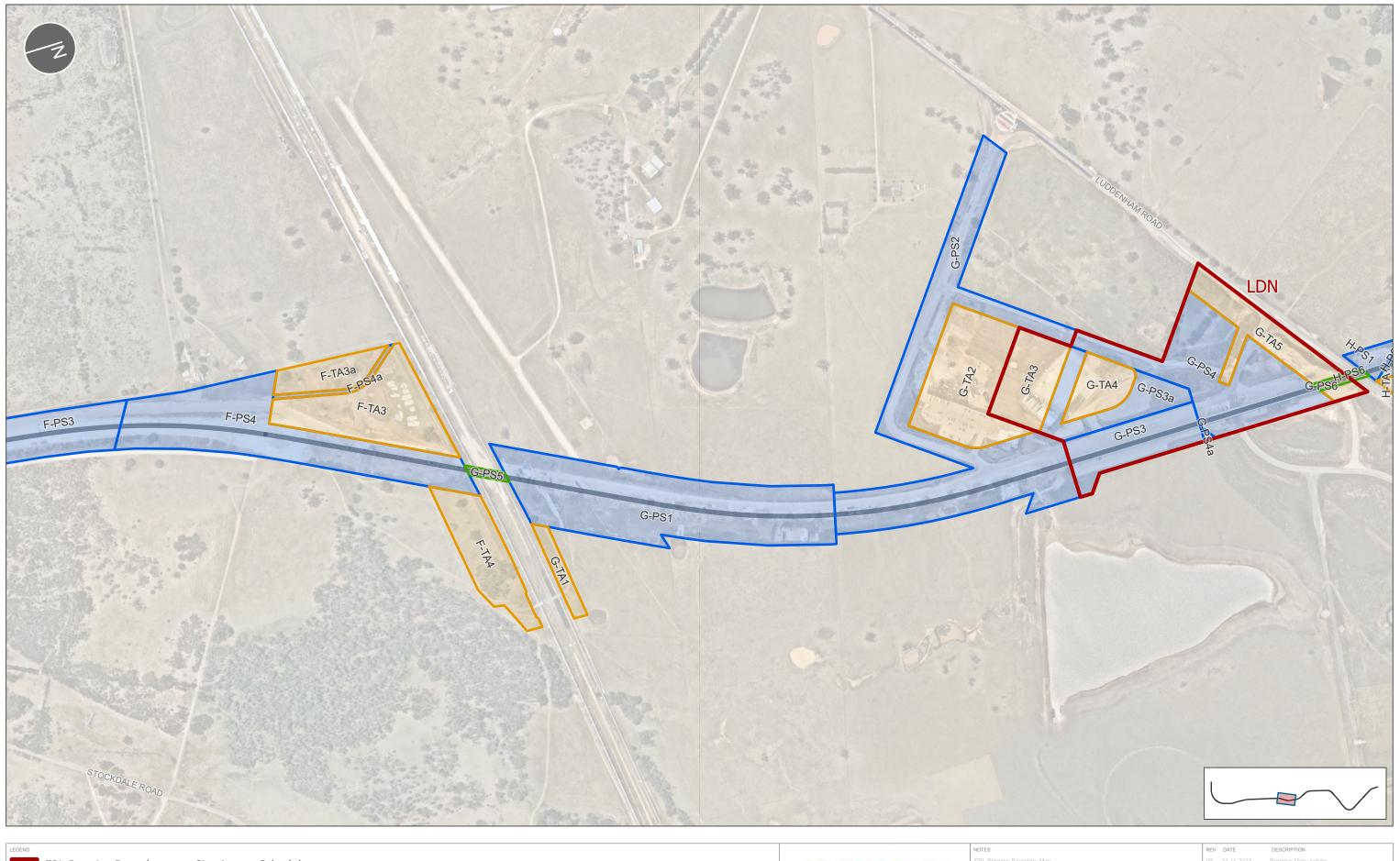
MAPOLOGY for CHBJV - GIS MAP file : SSTOM_ENV_EPL | C:\Live



EPL Premise Boundary
Metro alignment
Watercourse
Site Access Schedule
Aerial Stratum
Project Site
Temporary Area

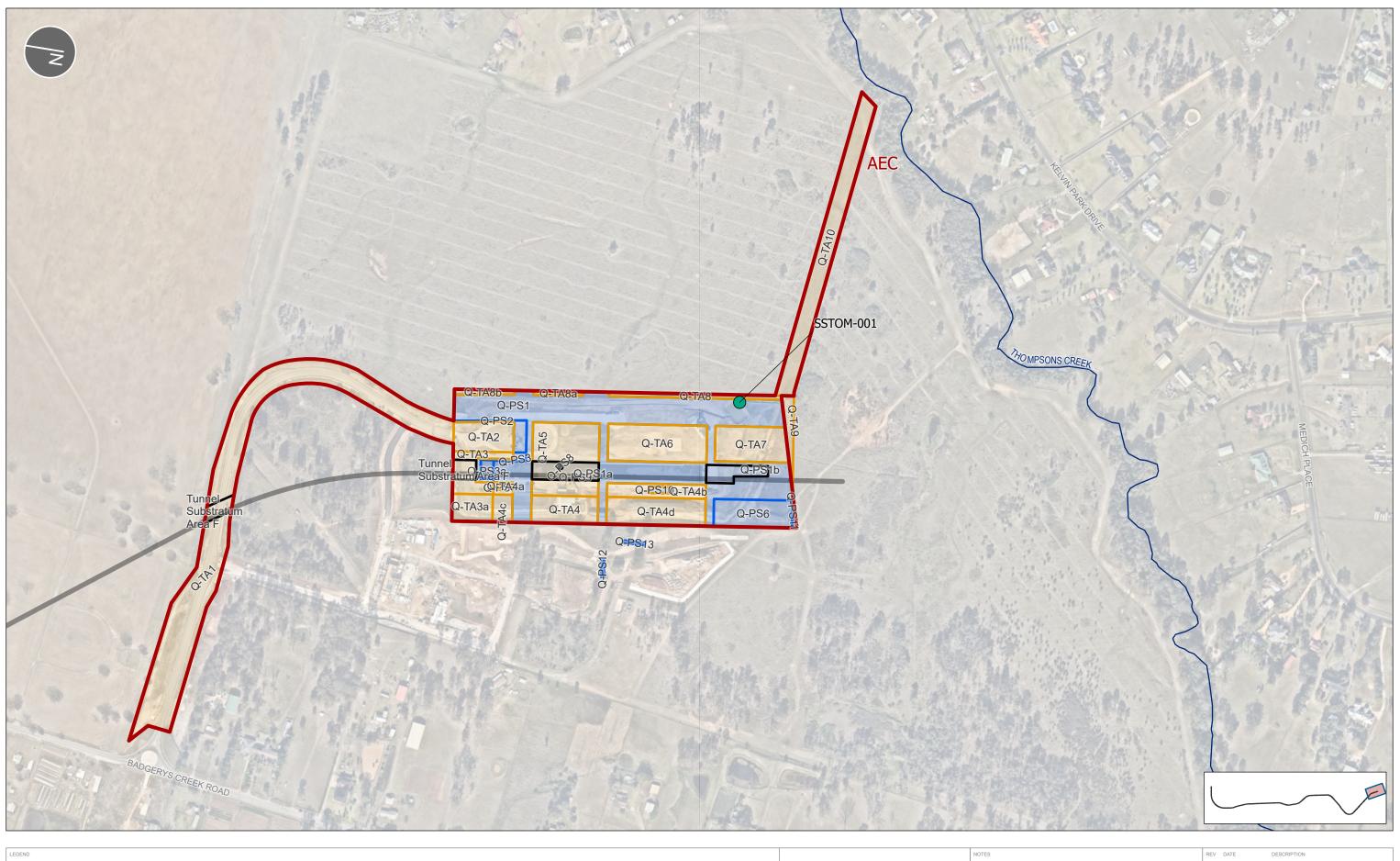


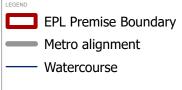
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EPL Premise Boundary
Metro alignment
Watercourse
Site Access Schedule
Aerial Stratum
Project Site
Temporary Area







Site Access Schedule
Project Site
Substratum

Temporary Area

Discharge Points

Temporary Sediment Basin

Parklife Metro D&C	PROJECT			11 12 13 14	17.01.2024 29.01.2024 NT	Premise Map update
EPL 21807 PREMISE BOUNDARY		o – Western Sydney Airport - SST	1	+ -	dney Metro	
	1:5,000	A3	DRAWN BY	MS	ROVED	SMWSASSM-PLD-1NL-
0 100 200m	SHEET 6 of 6	COORDINATE SYSTEM GDA2020 MGA Zone 56	MS REVIEW	DATE 29/	01/2024	ENV-GIS-000001_14 14

MAPOLOGY for CHBJV - GIS MAP file : SSTOM_ENV_EPL | C:\(Live_Projects\)\(lstom_gis\a_current\)\(lstom_a \)\(lstom_a \)\(lstom_b \)\(lstom_