

Mr Rob Sherry
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Department of Planning Industry and Environment
Locked Bag 5022
PARRAMATTA NSW 2124

13 January 2023
Ref: 170108-ER_DPE December 2022

Dear Rob

RE: Sydney Metro City & South West – ER Monthly Reports for December 2022

Healthy Buildings International (HBI) submits this report to the Secretary in accordance with:

- Condition A24 (l) of the Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 Approval (9 January 2017) and associated modifications MOD1_Victoria Cross and Artarmon (18 October 2017), MOD2_Central Walk (21 December 2017), MOD4_Sydenham Station and Metro Facility South (13 December 2017), MOD 3_ Martin Place Metro Station (22 March 2018), MOD5_Blues Point Acoustic Shed (2 November 2018), MOD6_Administrative Changes (21 February 2019), MOD7_ Administrative Changes (29 June 2020), MOD8_Blues Point Access Site (25 November 2020), and MOD9_ Extension to Standard Construction Hours (30 June 2022); and
- Condition A26 (j) of the Sydney Metro Sydenham to Bankstown Upgrade SSI_8256 Approval (12 December 2018) and associated modifications MOD1_Bankstown Station.

The attached summaries detail the key activities undertaken by Environmental Representatives for Sydney Metro – City and South West Chatswood to Sydenham for the month of **December 2022**.

Note that this report is submitted under an extension granted by DPE on 19 December 2022.

Yours sincerely



Jo Robertson
Environmental Representative

Cc: Sydney Metro: Carolyn Riley, Fil Cerone, Ben Armstrong, Dylan Jones, Ann Paterson, Julia Diamond, Chris Berg, David Virtue
AA: Available on Sydney Metro Website
Contractors: Available to Contractors on Sydney Metro Website
DPE Compliance: Portal
DPE Post Approvals: Available on Sydney Metro Website

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1. Central Station

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S)	Central Station	Michael Woolley
Key Construction Activities During the Period		
<p>Works conducted during the reporting period included:</p> <ul style="list-style-type: none"> Metro Box – Ongoing use of Platform 12 by the public. Waterproofing and tiling continuing on Platform 15. Ongoing fit out activities for the Chillers and Ventilation Building. Fit out of Metro Platform and other levels. OSD continues to be operational with most of the Metro Box area draining to the OSD with is connected to stormwater. Central Walk – Ongoing use of south side of the Central walk and some of the north-south concourse for public while works are completed on the northern side. Ongoing fit out of new escalators. Other fit out activities. Works within hoarded work zones on suburban Platforms 16-23 and platform surface excavation during rail possession weekends. Some hazardous waste removed during platform works Sydney Yard – Small capacity WTP operating to treat surface waters with other water largely directed to Marrickville. Water pumped from some areas of the Track slabs via various tanks to the WTP. Truck access; laydown. Reduced activities due to reduced works on the project. Stockpiling of hazardous wastes removed during platform works. Northern Concourse – Ongoing works at intersection of Northern Concourse and Metro Box area. Eastern Entrance – Ongoing fit out and general construction activities. Installation and fit out of escalators continued. Ongoing use of the footpath within the site hoarding in front of the site on Chalmers Street. Devonshire Street Tunnel - In operation and used by commuters. CSR works Rail Institute – Works completed. Barriers in place for access. ESR Concourse - Ongoing use of the area for laydown and construction support. Fit out and other construction activities ongoing. Public pedestrian access moved onto some completed areas. Ghost Platforms (above ESR Platforms 24-25) - Ongoing electrical, ventilation and other fit out. 		
Key Construction Activities Look Ahead		
<ul style="list-style-type: none"> Ongoing activities as described above 		
ER Inspections		
<p>There was one ER inspection conducted during the reporting period 21st December 2022. Issues raised during the inspection included:</p> <ul style="list-style-type: none"> Use of tonal alarms on a fork lift and an EWP at different locations Reinstatement of a noise blanket on Platform 13 noise barrier Signage for hazardous wastes stockpiled in Sydney Yard 		
Photos		
		
Eastern Entrance: Ongoing fit out works inside the building.		Eastern Entrance: Scaffolding on Randle lane

	
Northern Concourse: Installation of some HIP items	Northern Concourse: Installation of clock amongst HIP items
	
North South Concourse: Ongoing fit out works. Ongoing access for plant and equipment via skylight opening.	Platform 14: Ongoing tiling of the platform surface.
Endorsed Document/s	
<ul style="list-style-type: none"> Nil 	
Non-compliance/ Incidents or Repeat Complaints	
No complaints were reported to have been received during the reporting period relating to the Central Station works. No Incidents were reported that would trigger reporting under Condition A41 and no non-compliant events were reported or observed by the ER.	
Audits	
There were no audits conducted during the reporting period.	
Summary of Environmental Performance	
Good environmental performance was generally observed, noting no incidents reported and only low risk issues identified during inspections.	
Looking Forward – Core Focus Areas	
<ul style="list-style-type: none"> Heritage Reporting 	

2. SSJ

Project Approval	Contract Package	EPL	Environmental Representative/s
SSI 7400 (C2S)	Sydenham Station and Junction (SSJ)	#21147	Jo Heltborg
Key Construction Activities During the Period			
<ul style="list-style-type: none"> Fraser Park Ancillary Facility: Handover to Portuguese Club pending materials to complete boom gate Geotechnical Area: Completion of gate remains on hold due to design Sydenham Station: PC handed over to Linewide, including maintenance Sydenham Pit and Pumping Station: Formal handover to Sydney Water complete (awaiting records, ITP) Way Street Laydown Areas: Materials removal for transfer to the John Holland Laing O'Rourke (JHLOR) return to the landowner. Carrington Road Laydown: Some materials, including a stockpile of DGB and concrete barriers remain, and stabilisation required. Materials removal for transfer to the John Holland Laing O'Rourke (JHLOR) return to the landowner. 			
Key Construction Activities Look Ahead			
<ul style="list-style-type: none"> Graffiti removal, Sydenham Pit Geotechnical Area: Final gate design and installation Way Street: Preparation for formal handover to Sydney Trains Carrington Road Laydown: Preparation for formal handover to Sydney Water Ongoing defect work Fraser Park Ancillary Facility: Boom gate to be installed and handed back to the Portuguese Club 			
ER Inspections			
<p>There were no ER inspections conducted by the ER in December 2022 due to limited activity and low risk. The following actions remain open from previous ER inspections:</p> <ul style="list-style-type: none"> Bedwin Road: Graffiti remains on Bedwin Road bridge; pending removal in accordance with the Visual Amenity Management Plan (VAMP). <ul style="list-style-type: none"> ER update December 2022: Awaiting finalisation of the Road Safety Audit prior to close-out. Sydenham Pit Confluence Area: Graffiti remains on the Sydenham Pit confluence structure; pending removal in accordance with the VAMP. Outcome pending formal handover to Sydney Water. <ul style="list-style-type: none"> ER update December 2022: Graffiti to be removed. Awaiting completion prior to close-out. 			
Photos			
<ul style="list-style-type: none"> Nil 			
Endorsed Document/s			
<ul style="list-style-type: none"> Nil 			
Non-compliance/ Incidents or Repeat Complaints			
<p>Sydney Metro has been providing summaries of complaints to The Department of Planning and Environment (DPE) daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow-up actions often defined in revised reports. Key or repeat items of note are discussed below for SSJ.</p> <ul style="list-style-type: none"> The ER is not aware of any non-compliances for SSJ during the period. There were no incidents for SSJ reported to the ER under conditions A41 of SSI 7400. There were no minor Class 3 environmental incidents reported to the ER during the period. The ER is not aware of any complaints during December 2022 that could be attributed to the SSJ works. 			
Audits			
No ER involvement in audit activity including Independent Environmental Audits.			



Summary of Environmental Performance

The scope of works conducted during the reporting period was small and low risk. The project is winding down with most project scope complete, with mainly defects remaining. The ER is waiting on the completion of all scope and materials removal from laydown areas before handover and condition completion is finalised. With the non-award of the Bankstown Station and Additional Corridor (BAC) contract, SSJ laydown areas are unlikely to remain in use by JHLOR.

Looking Forward – Core Focus Areas

- Completion of selected Conditions of Approval and Revised Environmental Mitigation Measures
- Completion of the SSJ Compliance Tracking Report (CTR) Q3 2022

3. Line Wide (Tallawong to Bankstown)

Project Approval	Contract Package	EPL	Environmental Representative/s
SSI 7400 (C2S) SSI 8256 (S2B) SSI 5931 (SMTF)	Line Wide (Tallawong to Bankstown) Systems Connect (SC)	#21423 ST #12208 LW	Swathi Gowda
Key Construction Activities During the Period			
Key Construction Activities below -SC Reports: Northern Connection <ul style="list-style-type: none"> Northern Dive – Overhead Wiring (OHW) works Brand St (Drainage Crossing) – Line marking completed Chatswood Dive Site <ul style="list-style-type: none"> Concrete removal works commenced Valetta Lane (possession related use) – Clean-up works completed Artarmon Traction Sub-station (TSS) and BPS Works Site – TSS energised; commissioning works. Blues Point – Streetscaping works: <ul style="list-style-type: none"> FRP works – kerbs and for Tie in Slab Installation of sandstone and cobblestone pavement works Finalising light pole installation Finalising paving works and rain garden installation Site wide electrical works SW Corridor Traction Substation sites: Dulwich Hill TSS <ul style="list-style-type: none"> Internal TSS works – Electrical fit out in progress Remaining Façade Panels and Steel Install planned for 7 and 8 Jan 2023 (under approved OOHWA #278) Canterbury TSS <ul style="list-style-type: none"> GLT installed Internal TSS works – Electrical fit out works in progress Campsie TSS <ul style="list-style-type: none"> Batter trimming and stabilisation works 90% complete Relocation of site shed in progress in preparation for fencing works Bi-access staircases installed Internal TSS works – Electrical fit out works in progress Lakemba TSS <ul style="list-style-type: none"> Site clean-up in preparation for shut down period Punchbowl TSS <ul style="list-style-type: none"> SC Reports site clean-up in preparation for shut down period scheduled Remaining facade installation completed Canterbury to Campsie BPS <ul style="list-style-type: none"> Pat O'Connor (POC) Reserve, Canterbury – No works. Only some tree planting remaining at cable bridge worksite (Ausgrid side). Campsie BPS Joint Bay worksites (Anzac St, Gould St and South Pde) – SC Reports Gould St and South Pde Joint Bay dewatering works continuing, as required during Std Hrs. HV cabling on hold till NY (2023). <ul style="list-style-type: none"> Anzac St Joint Bay - backfilling and site demobilisation works in progress Anzac St Joint Bay - road paving work scheduled on 20 Dec 2022 Southern Dive & SMTF South Marrickville: <ul style="list-style-type: none"> Operational WTP - External electrical connections nearing completion. Floor ceiling works underway Administration Building - Energisation of main switchboard and testing /commissioning works Maintenance Buildings - Interior fit out works continuing Landscaping works continuing Stabling Yard – Platform installation and OHW works Fire Pump Room – Electrical testing and internal fit out SSJ Area – Paver installation works progressing at future carpark 			

- Southern Dive - SC reports Internal fit out works, fencing works, cable terminations
- Sydenham Station – Testing and commissioning works

Surry Hills BPS works – Frog Hollow Reserve, Belmore St and Randle Ln

- Frog Hollow Reserve – Reopening of Joint Bay
- Cable replacement between Ausgrid and Belmore St in progress with anticipated finish date 17/12/2022

Key Construction works/activities Look Ahead

Look-ahead of upcoming activities /works:

- CTR Q3 2022 reporting/ review process.
- Cap and containment remediation works at SMTF South site (in proposed internal access road area).
- Remainder of minor upgrades, maintenance and landscape works at Blues Point.
- SMTF S - Early investigation works of utility services to determine the location of existing underground services, including road excavation and surveying.
- Northern Connection weekend possession works (13 - 16 Jan 2023).
- OOHW for new water and sewer connections to the Chatswood Dive site near the intersection of Mowbray Rd and Hampden Rd (Chatswood), commencing 22 Jan 2023 for approximately 10 nights.
- OOHW (Southwest Corridor) – façade install at Lakemba TSS (10 – 13 Jan 2023), Padmount transformer crane lifts at Dulwich Hill Station (6-7 Jan 2023), remainder of façade install and steelwork at Dulwich Hill TSS (7 and 8 Jan 2023).
- Canterbury to Campsie BPS works – Works scheduled to recommence in January 2023.

ER Inspections

There were three ER inspections conducted by the ER in December (06/12/2022, 13/12/2022 and 20/12/2022). Key new actions/notes raised are summarised below, with SC providing close out for actions/notes raised:

SMTF South and Surry Hills BPS works - ER Inspection #137 (Minimal works on-site due to RDO/Picnic Day)- 06/12/2022 [Tuesday; Total Rainfall (mm) recorded rainfall recorded on 6/12 – 6.6 mm and rainfall prior to inspection day - 0.0mm on 5/12, 4/12 and 3/12]:

- SMTF S - Discussed and raised general housekeeping (removal of waste/litter required around pedestrian walkway (near Gate S2) and in track slab area (Stabling Yard).
- SMTF S - Sydney Steel Rd / Graffiti Ln - Tagging observed on section of unbranded blue shade cloth installed along section of Sydney Steel Road and on Site Shed (along Graffiti Ln) to be addressed and note raised at Sydenham Station for SC to improve previously addressed visible tagging on shade cloth.
- SMTF S - Discussed removal of stockpile of excess concrete waste noted in area. ER further discussed internal reminder to be issued to Site Team of use of appropriate controls for excess concrete waste management/washout.
- SMTF S – note raised to provide ER photos as evidence of rescheduled maintenance (ESC/litter) undertaken on Sydney Steel Road.
- Frog Hollow Reserve – Surry Hills - Noting site set up in progress, ER requested photos post installation of shade cloth and noise blanket gaps being addressed.

Northern Sites - ER Inspection #138 - 13/12/2022 [Tuesday; Total rainfall recorded on 13/12– 22.6mm. Rainfall previous days to inspection: 0.0mm – 12/12, 0.2mm - 11/12 and 0.0mm 10/12]:

- CDS (Site Egress) – Minor material observed to be flaking from pedestrian crossing at the site egress. Discussed with SC to mobilise sweeper in area.
- Valetta Ln - Some tracking on Brand St noted from Valetta Ln Compound – to be addressed by SC.
- Blues Point Road – Streetscaping worksite - Discussed some maintenance required within strip drain and rain garden (removal of silt) near curved feature wall.

SW Corridor Traction Substation sites and BPS works - ER Inspection #139 – 20/12/2022 [Tuesday; Rainfall (mm) recorded prior to inspection day – 0.8mm on 19/12, 7.4mm on 18/12 and 0.0 mm on 17/12]:

- Canterbury TSS: Site Access/Egress and Construction material laydown area (Hutton St): Discussed some general housekeeping required in area (removal of minor leaf and other litter) including minor sediment near site access/egress.
- Campsie TSS: Discussed works remaining post shed relocation and SC informed the ER that area would be tidied up and scraped back to hard stand. Action raised to install sediment controls post works and provide evidence to ER.
- Anzac St Joint Bay - Backfilling and site demobilisation works in progress. SC informed the ER that road paving work is scheduled on Tuesday afternoon – 20 Dec 2022. Action raised to provide evidence of street sweeper deployed post works and site demobilisation.
- South Pde Joint Bay – Noting no works being undertaken till NY 2023, ER raised note for SC to re-install noise blankets to ensure no gaps prior to commencement of works at joint bay worksite.

Photos



CDS (previous Acoustic Gantry Shed area): Concrete surface removal works underway,



CDS (previous Acoustic Gantry Shed area): Observed dust suppression (operator wetting down the works area) during concrete surface removal works.



Northern Dive Building: Façade installation nearly completed.



Northern Dive: Installation of dampeners (acoustic panels) on section of Northern Dive wall and track progressing.



Campsie TSS: Bi-access staircase installed



Campsie TSS: Batter trimming and stabilisation works progressing along the batter (track side).



Punchbowl TSS: Remainder of façade installation scope completed under OOH#269.



Dulwich Hill TSS - Preparatory works on steel roofs for transformers underway.



Henry Lawson Reserve: Example photos of turf laid within previously disturbed areas.



Henry Lawson Reserve: Example photos of turf laid within previously disturbed areas.



Blues Point Road – Streetscaping worksite - Paving works being finalised with minor section of paving underway (near Blues Point Rd/Henry Lawson Ave – second Image).







Blues Point Road – Streetscaping worksite: Finalising raingarden installation.



SMTF S - Future Carpark Area: Paver installation works, road surfacing and landscaping works progressing.



SMTF S: Internal Road works progressing.

	
SMTF S: Stabling Yard – OHW works continuing.	SMTF S: Landscaping works progressing.
	
Surry Hills BPS Works – Frog Hollow Reserve reopened to undertake essential cable replacement work. Cable extraction works scheduled.	Surry Hills BPS Works - Belmore St Joint Bay remains open, o complete cable replacement works.
Endorsed Document/s	
<ul style="list-style-type: none"> OOHWA #278 Dulwich Hill TSS Façade and Steelwork OOHWA #277 - Dulwich Hill Padmount Transformers OOHWA #273 - Lakemba TSS - Façade Lift and Install 	
Non-compliance/ Incidents or Repeat Complaints	
Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for the respective projects.	
Nil non-compliances reported to the ER in this reporting period. There were no incidents for Line Wide reported to the ER under conditions A41 to A44 of SSI 7400 or A36 of SSI 8256. No minor Class 3 events reported to the ER, for this reporting period.	
Complaints during this reporting period are summarised below:	
<ul style="list-style-type: none"> 09/12/2022 –Southwest corridor (LWW) – Canterbury - Noise & Vibration (OOHW); Respite & AA – Respite - Resident raised concerns about noisy work in the middle of the night on Charles St, Canterbury. The resident said they had not been notified of the work and the work was noisy. 23/12/2022 -Campsie to Canterbury power upgrade (LWW) – Property - Access; Worker behaviour - LWW - Complaint regarding the joint bay work on Gould St, Campsie. Complainant raised concerns about the length of time the work was ongoing, the access to the front of his property with limited street parking, and rubbish left by contracted security. 	
Complaints during this reporting period unrelated to SC/SM activities:	
<ul style="list-style-type: none"> Nil 	

Audits
<ul style="list-style-type: none"> ▪ Nil this reporting period
ER Closing Comments and Looking Forward
<p>Key Points:</p> <ul style="list-style-type: none"> ▪ Complaints received in reporting period are summarised above. ▪ Significant reduction in complaints in comparison to previous month. Surry Hills BPS construction works completed (17/12/2022), with no further complaints from works at Belmore St – Surry Hills (BPS works) in the reporting period. ▪ Overall, the Project continues to generally perform well, with ER Inspections across this month identifying generally minor actions and improvements. ▪ The Project Team continue to be responsive to queries/comments raised in document reviews/discussions and any recommendations made by the ER.
<p>Looking forward:</p> <ul style="list-style-type: none"> ▪ Cap and containment remediation works at SMTF South site (in proposed internal access road area). ▪ Northern Connection weekend possession works (13 - 16 Jan 2023). ▪ OOHW for new water and sewer connections to the Chatswood Dive site near the intersection of Mowbray Rd and Hampden Rd (Chatswood), commencing 22 Jan 2023 for approximately 10 nights. ▪ OOHW (Southwest Corridor) – façade install at Lakemba TSS (10 – 13 Jan 2023), Padmount transformer crane lifts at Dulwich Hill Station (6-7 Jan 2023). ▪ Canterbury to Campsie BPS works – Works scheduled to recommence in January 2023. Contingency OOHW for dewatering (weather dependant) BPS joint bays with anticipated completion in mid- February 2023. SC reports no OOHW dewatering undertaken till date.

4. TSOM

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S) SSI 8256 (S2B) SSI 5931 (SMTF)	Train Service Operation and Maintenance (TSOM)	Swathi Gowda
Key Construction Activities During the Period (December 2022)		
<ul style="list-style-type: none"> ▪ Tunnels: Ongoing installation of cables and trackside equipment in tunnels and Cross Passages (XPs). ▪ SMTF-North: Dynamic train testing between SMTF North and Chatswood and mixed fleet operations ▪ SMTF-South: <ul style="list-style-type: none"> ○ Cable tray, cables and cabinet installation in Administration Building ○ Installation of signalling equipment in the yard ▪ Southwest Substations: Site inspection and survey works ▪ Southwest Corridor: No works planned ▪ Northern Corridor: Cable pulling and termination at Chatswood Station ▪ Stations: <ul style="list-style-type: none"> ○ Martin Place, Victoria Cross, Crows Nest, Pitt Street and Barangaroo: Installation of Platform Screen Doors (PSDs), communications and signalling equipment and cables ○ Sydenham: Platform Edge Barrier (PEB) defect work, testing and commissioning (T&C) of communications equipment ○ Central and Waterloo: T&C of PSDs and ongoing installation of communications and signalling equipment 		
Key Construction Activities Look Ahead – January 2023		
<ul style="list-style-type: none"> ▪ Tunnels: Ongoing installation of cables and trackside equipment in tunnels and XPs ▪ SMTF-North: Dynamic train testing between SMTF North and Chatswood and mixed fleet operations ▪ SMTF-South: <ul style="list-style-type: none"> ○ Cable tray, cables and cabinet installation in Administration Building ○ Installation of signalling equipment in the yard ▪ Southwest Substations: <ul style="list-style-type: none"> ○ Cabinet works in service equipment building (Marrickville to Bankstown) ○ Campsie radio mast install ○ Cabinet works in station equipment rooms at Lakemba and Belmore ▪ Southwest Corridor: No works planned ▪ Northern Corridor: Cable pulling and termination at Chatswood Station ▪ Stations: <ul style="list-style-type: none"> ○ Martin Place, Victoria Cross, Crows Nest, Pitt Street and Barangaroo: Installation of PSDs, communications and signalling equipment and cables ○ Sydenham: PEB defect work, T&C of communications equipment ○ Central and Waterloo: T&C of PSDs and ongoing installation of communications and signalling equipment 		
ER Inspections		
<ul style="list-style-type: none"> ▪ No ER inspections conducted in December. 		
Photos		
<ul style="list-style-type: none"> ▪ N/A 		
Endorsed Document/s		
<ul style="list-style-type: none"> ▪ Nil 		
Non-compliance/ Incidents or Repeat Complaints		
<p>Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for the respective projects.</p> <ul style="list-style-type: none"> ▪ The ER is not aware of any complaints or non-compliances. There were no incidents for TSOM reported to the ER under conditions A41 to A44 of SSI 7400 or A36 of SSI 8256. 		
Audits		
<ul style="list-style-type: none"> ▪ No audits proposed 		
Looking Forward – Core Focus Areas		
<ul style="list-style-type: none"> ▪ Nil 		

5. ISD – Crows Nest

Project Approval		Environmental Representative/s
SSI 7400 (C2S) No EPL	Crow's Nest ISD (CN-ISD) AW Edwards	Rui Henriques / Brett McLennan
Key Construction Activities During the Period		
<ul style="list-style-type: none"> Demolition of the capping beams at site C Steel fixing and shuttering (Sites A - C). B4 OTE cladding and fit out Concrete pours Girder deliveries for B1/Level 0 Level 1/Level 0 form, reo and pour (FRP) Concrete pumping and pouring on Pacific Highway/Clarke Lane. Services, finishes and fit out of B5 platform, B4 OTE, B3 ,B2plant room. Line Wide Fit-out works on B6 Potholing, service investigations and removing the Gantry Installation Tower Crane 3 Disassembly of Tower crane 1 Tree removal on Oxley and Clarke Streets Installation of Class B hoarding around Site C Public domain work at Clarke + Oxley Street Escalators installation 		
Key Construction/Activities Look Ahead		
<ul style="list-style-type: none"> Demolition of the capping beams Steel fixing and shuttering (Sites A - C). B4 OTE cladding and fit out B2 to B1 and ground Perimeter walls FRP and concrete pours Girder deliveries for B1/Level 0 Level 1/Level 0 form, reo and pour (FRP) Concrete pumping and pouring on Pacific Highway/Clarke Lane. Services, finishes and fit out of B5 platform, B4 OTE, B3 plant room. Line Wide Fit-out works on B6 Potholing, service investigations and removing the Gantry Tree removal on Oxley and Clarke Streets Installation of Class B hoarding around Site C Public domain work at Clarke + Oxley Street Piling works Site C Concrete Pours on Oxley St 		
ER Inspections		
<p>There was one ER inspection on 14 December 2022 (ER inspections are on a fortnightly cycle weather and health permitting). The following issues were raised:</p> <ul style="list-style-type: none"> Noted continued improvement relating to active and collaborative engagement across all facets of the project, including the construction, communications, and environment teams. This commendable effort on the part of the project to improve coordination and environmental performance is very encouraging. 		

Photos



Oxley St west of Clark St – Screening and information required under CoA B10 installed.



Clark Lane North – Used for craning of materials into the site.



Clarke Lane South - Clarke Lane South, used under ROL for concrete pump, with new Tower crane 3 on the right



Site C view northeast: Excavation and capping beam removal continue.



Site A view north: Level 1 FRP and Level 0 pre-cast interior walls



Clarke St looking southwest - Utility and public domain works c under traffic control



Site A looking south - FRP underway on Level B0



Site A B1 to L1 elevation looking north: Concourse area pre-assembled steel trusses in place



Platform (B5): Platform sliding doors and screen installation



Site B platform level – Southern escalators B2 concourse fit out.

Endorsed Document/s

- Consistency Assessment for Extension of Hume Street Occupancy to completion of construction.
- OOHW 25 – Revised extended work hours for January to March 2023

Complaints / Incidents / Non-compliance

Sydney Metro has been providing summaries of complaints to DPE daily and a summary to the ER. Responses to complaints have been noted in each complaint report, with follow up actions often defined in revised reports. Complaints are discussed where relevant for each package below.

There were no incidents for any of the ISDs reported to the ER under conditions A41 to A44 of SSI 7400. Where the ER is aware of minor events and non-compliances, these are as documented below.

One (1) potential or actual non-compliances was reported to or identified by the ER:

- 19 October – The AA noted that the use of a concrete saw on Clarke Lane south observed during the 16 November 2022 inspection was not captured in the most recent CNVIS Rev K published on the AWE website. Discussions are ongoing in respect of potential non-compliance with AWE, either against A8 or E33.

There were seven (7) complaints during the period, as follows:

- 7 December– Noise and Vibration relating to capping beam demolition in Site C in standard hours.
- 8 December – Noise and Vibration relating to demolition in Site C in standard hours.
- 9 December – Safety - Construction; Worker behaviour relating to subcontractor on Oxley St working without PPE on and smoking a cigarette.



- 12 December – No access to building carpark off Clark Lane on 11 December. AWE indicated that one access to the carpark was maintained all.
- 14 December – Water and soil management compliant in relation to AWE subcontractors tapping into their building's water.
- 15 December – Noise and Vibration relating to capping demolition in Site C in standard hours. Additional respite offers made.
- 16 December – Complaint in relation to electric outages throughout the morning. Tracked to planned Ausgrid outages for the area unrelated to the project

Audits (specific to packages reported in this report)

No ER involvement in audit activity including Independent Environmental Audits.

Looking Forward – Core Focus Areas and ER Closing Comments

Core Focus Areas

Monitor new cut-down regime of extended hours OOHW and adjust as required.

ER Closing Comments:

More active and collaborative engagement continues to be observed across all facets of the project, including the construction, communications and environment teams. This is reflected in the absence of non-compliances and the considerable decline in complaints relative to the previous reporting period.

6. ISD – Pitt Street

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S) No EPL	Pitt Street ISD (PS-ISD) CPB Contractors	Rui Henriques / Brett McLennan
Key Construction Activities During the Period		
<p>Pitt Street North</p> <ul style="list-style-type: none"> Stripping completed in escalator void Structural steel monorail beam installed Blockwork to Level 00 ongoing and Level 01 to commence Concrete pours for Level 3 – Level 5 including walls and slabs <p>Pitt Street South</p> <ul style="list-style-type: none"> Installation of Façade Precast & GRC Panels to the Southern Elevation (Princeton Apartments & Princeton Courtyard) on levels 5 – 6. Blockwork construction completed in basement levels with block-work progressing between levels 00 - 05. Fit-out works progressing throughout to FOH Zones on B04 i.e., FOH ceilings in paid concourse zone and fit-out of bathrooms. Sandstone and glazing works commenced on level B04 and within the atrium zone. Services and utilities works progressing throughout basement levels and services risers progressing up to level 04. Level 01 & 04 LWW monorails completed with level 05 monorails close to completion. <p>Adits and Platform Caverns</p> <ul style="list-style-type: none"> GRC (lower internal cladding) panel installation Installing cladding subframes above GRC panels Platform Screen door cladding Platform Screen door installation Services containments install to platforms Ceiling cladding installation 		
Key Construction/Activities Look Ahead		
<p><u>Pitt Street North</u></p> <ul style="list-style-type: none"> Escalator installation ongoing Level 5 and 6 FRP Blockwork to Level 00 ongoing and Level 01 to commence <p><u>Pitt Street South</u></p> <ul style="list-style-type: none"> Installation of Façade Precast & GRC Panels to the Southern Elevation (Princeton Apartments & Princeton Courtyard) on levels 5 – 6. Block-work between levels 00 - 05. Fit-out works on B04 i.e., FOH ceilings in paid concourse zone and fit-out of bathrooms. Sandstone and glazing works on level B04 and within the atrium zone. Services and utilities works throughout basement levels and services risers up to level 04. Level 05 monorails completion. Adits and Platform Caverns <p><u>Adits and Platform Caverns</u></p> <ul style="list-style-type: none"> Terrazzo paver installation HV Cable pulling GRC (lower internal cladding) panel installation Platform Screen door cladding ongoing Platform Screen door installation ongoing Ceiling cladding installation 		

ER Inspections

There was one ER inspection on 20 December 2022 (ER inspections are on a three weekly cycle weather and health permitting). The following issues were raised during the inspection:

- Nil this period.

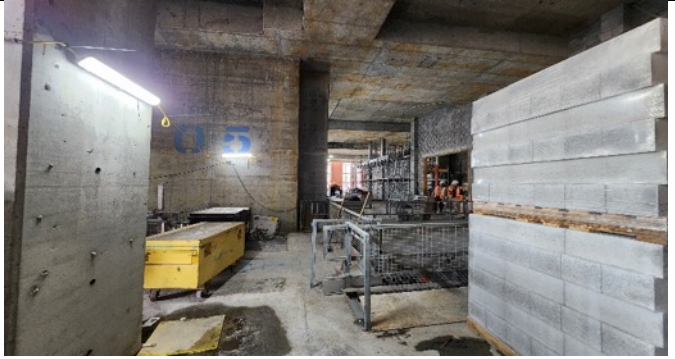
Photos



Pitt St South (PSS): Level 5 podium/Level 6 façade walls adjacent to Princeton Apartments.



PSS: Level 5 podium/Level 6 façade walls adjacent to Princeton Apartments



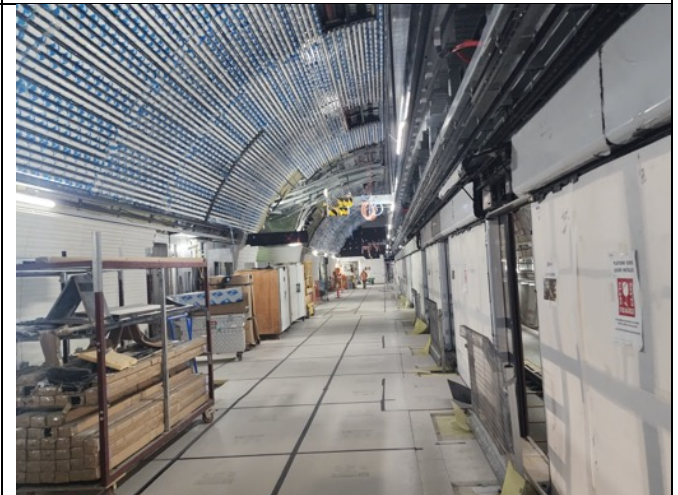
PSS Level 5 - Blockwork.



PSS: Escalator installation.



Adits: Ceiling Insulation and cladding installation.



East Adit: Cladding installation continues. PSD installed.



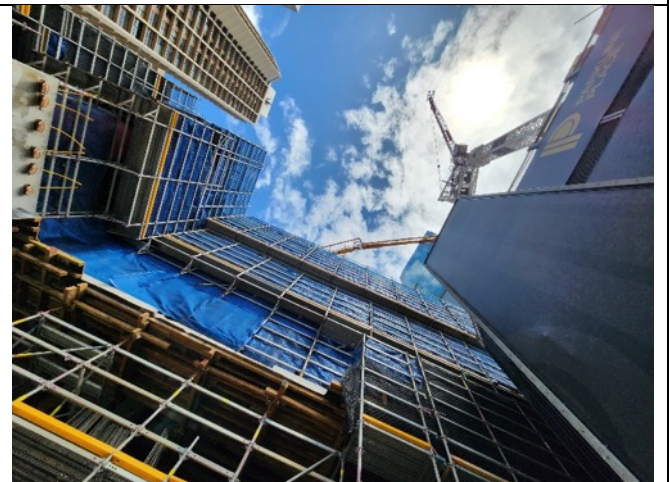
Pitt Street North (PSN): Level 00 Station Atrium.



PSN: Southern L6 FRP



PSN south-eastern side view east: OSD level 6/7



PSN south looking west: OSD works

Endorsed Document/s

- OOHW 050 – Long term OOH project works January to March 2023
- CEMP revision 2.07 – Revisions to reflect SSI 7400 Mod 9 and outcomes of internal reviews and audits.

Complaints / Incidents / Non-compliance

Sydney Metro has been providing summaries of complaints to DPE daily and a summary to the ER. Responses to complaints have been noted in each complaint report, with follow up actions often defined in revised reports. Complaints are discussed where relevant for each package below.

There were no incidents for any of the ISDs reported to the ER under conditions A41 to A44 of SSI 7400. Where the ER is aware of minor events and non-compliances, these are as documented below.

There were one non-compliance/incident reported to the ER this period:

- 14 and 19 December– Non-compliance with Condition E33. Hand-held jackhammer works were conducted within the station agreed respite hours of 7am to 8am.

There were two (2) complaints during the period:

- 10 December– Complaint about noise generated from work during standard hours. CPB confirmed work that was taking place included general structural work (formwork and steel fixing) and scaffolding. CPB also checked the on-site noise monitor and confirmed that the monitor was not triggered during the day. CPB informed the resident accordingly.
- 19 December– Resident complained about jack hammering noise at the South site at 7:30 am on the day and on 14 December. Following investigation, CPBG determined that a hand-held jack hammer was being / had been used on these dates during the agreed respite hours (Refer to non-compliance described above). CPB CPM called the resident to advise that the jack hammering work has been stopped and will recommence within outside the respite hours. Appreciated the resident taking the time to discuss the matter and for also sending through the videos.



Audits (specific to packages reported in this report)

No ER involvement in audit activity including Independent Environmental Audits.

Looking Forward – Core Focus Areas and ER Closing Comments


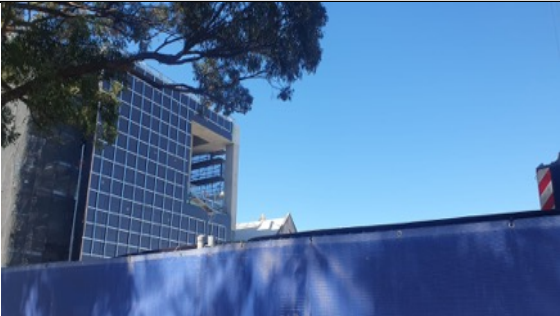
Core Focus Areas



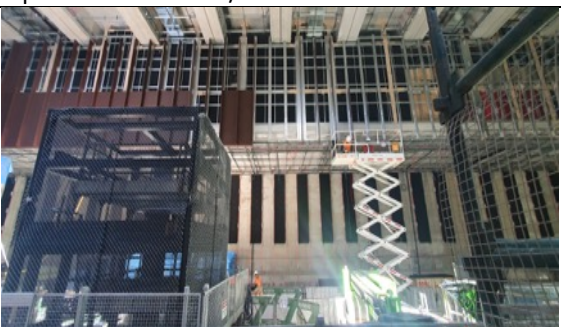
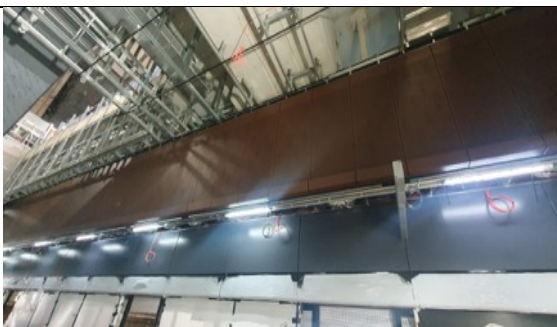
Out of hours planned to continue, including utilities installation in surrounding streets.

ER Closing Comments:

Project has performed very well throughout the period, with frequency of complaints related to project remaining low despite the level of activity in surrounding public domain areas. The project is continually investigating alternative construction sequencing and approaches to ensure impacts from out of hours works are minimised.

7. ISD – Waterloo

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S) (Does not include associated SSDs)	Waterloo ISD – John Holland	Swathi Gowda
Key Construction Activities During the Period		
Update provided by Contractor on 15/12/22: <ul style="list-style-type: none"> Utility works ongoing - Sydney Water scope Cranage works from Cope Street and internal site ongoing General deliveries ongoing FRP conducted from Surface Level to Level 2, Northern end and plaza Block work install and fill occurring across B3 and Level 1 (Southern side) Fit out works and service installation across B5, B3 and Level 1 (North/South) ongoing Electrical cable pulling in the station ongoing Capping beam removal – Northern end Demobilising site sheds and setting up new site sheds (North of the Church) 		
Key Construction/Activities Look Ahead		
<ul style="list-style-type: none"> Utility investigation and works ongoing in local roads around site, including OOH Capping beam removal – Northern end 		
ER Inspections		
ER inspections are on a three weekly cycle weather permitting. One ER inspection was conducted by the ER on 15 December 2022 [Thursday; Rainfall (mm) recorded prior to inspection day - 0.0mm (14/12) (12/12) and 22.6mm (13/12)]. Following issues/actions were raised: <ul style="list-style-type: none"> Cope St: Some maintenance required around stormwater drains on either end of Cope St- removal of leaf and other litter and minor sediment build-up. Cope St Site Compound / near the Northern Building: Observed chemicals in delivery phase, stored with plastic wrapping on pallets (not in use) within Cope St Site Compound and on-site near the Northern Building. Discussed with JHG re installing further protection in trafficable areas and to investigate if locations were temporary /permanent and ensuring appropriate chemical storage if permanent. Cope St Site Compound: Tree protection/delineation to be established around tree within Cope St Site Compound. Near Construction Water Treatment Plan (WTP): Sand and sediment bags to be tidied up/removed. 		
Photos		
<div>   </div>		
WL ISD: Above Ground Service Building 1 - Blockwork and internal fit out works continuing.		WL ISD: Above Ground Service Building 1: View from Cope St - preparatory works progressing for façade installation (on northern side of the Above Ground Service Building 1).

	
WL ISD - Northern Building: Waterproofing works on Level 2 completed and internal/external fit out works underway.	WL ISD - Cope St Plaza: Plaza FRP works progressing.
	
WL ISD - Concourse - Level B3: Facade installation works progressing.	WL ISD - Platform - Level B5: Facade installation works above trackways progressing.
Endorsed Document/s	
<ul style="list-style-type: none"> OOHWA #46 - Botany Road Hydrant Works Rev 01 OOHWA #47 - Lighting Install Rev C OOHWA #48 - December 2022, January & February 2023 (Utilities) OOH Work (Rev C) CTR Q3 2022 	
Complaints / Incidents / Non-compliance	
<p>Sydney Metro has been providing summaries of complaints to DPE daily and a summary to the ER. Responses to complaints have been noted in each complaint report, with follow up actions often defined in revised reports. Complaints are discussed where relevant for each package below.</p> <p>There were no incidents reported to the ER under conditions A41 to A44 of SSI 7400. Where the ER is aware of minor events and non-compliances, these are as documented below.</p>	
<p>No minor (Class 3) events and non-compliances (NC) were reported to the ER during this reporting period.</p>	
<p>Complaints during reporting period are summarised below:</p>	
<ul style="list-style-type: none"> 17/12/2022 – WL ISD - Worker behaviour – Complaint from resident regarding worker swearing 	
<p>Complaints unrelated to WL ISD/SM activities during reporting period:</p>	
<ul style="list-style-type: none"> 21/12/2022 - Noise & Vibration - OOHV – complaint regarding radio/music playing very loud and coming from within the working site. Further investigation by Contractor deemed complaint was not related to WL ISD/SM activities. 	
Audits (specific to packages reported in this report)	
<p>No ER involvement in audit activity including Independent Environmental Audits.</p>	



Looking Forward – Core Focus Areas and ER Closing Comments

Core Focus Areas

- Continue to review/monitor OOHWs planned and approved and promote the inclusion of noise mitigation wherever practicable.
- Continue to review/monitor complaint numbers and issues.


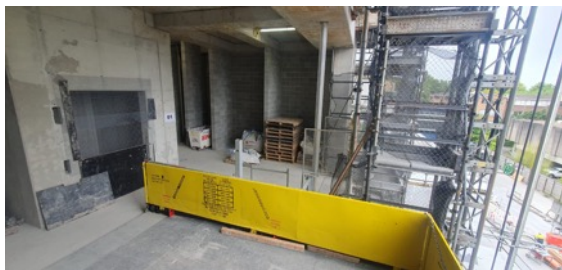
ER Closing Comments:

- One Project related complaint relating to worker behaviour received in reporting period, with complaint numbers remaining consistent with previous month.
- Contractor's Community and Stakeholder Manager continued providing complaint details/follow-up and close-out as requested, to ER and AA.
- Project has performed generally well throughout the period and has been responsive to queries/comments raised in document reviews and any recommendations made by the ER.

ER notes community engagement sessions/initiatives reported and discussed by JHG below:

- Quarterly Community Connect Session held on 13 December 2022.

8. ISD – Victoria Cross

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S) No EPL	Victoria Cross ISD (VC-ISD) Lend Lease	Swathi Gowda Michael Woolley
Key Construction Activities During the Period		
Construction Activities VC North (VCN): <ul style="list-style-type: none"> Structural works within plenum, concrete pours/steel fixing/formwork (up to ground level) Façade blockworks Fit out and services works within the shaft Station Cavern: <ul style="list-style-type: none"> Blockwork and GRC panels installation Station fit-out VC South (VCS): <ul style="list-style-type: none"> Stormwater works on Miller St Carpark slab (up to B00 – Ground Level)/station slabs concrete pours (B00), steel fixing and formwork Concrete works on Level 4 Station Jumpform Level 4 Jumpform pours and lifts Blockwork Service and fit out below the top deck 		
Key Construction/Activities Look Ahead		
<ul style="list-style-type: none"> Denison Street stormwater work Review and endorsement of management plans (scheduled review) Victoria Cross South site – Ongoing OOH (evening & weekend) extended to Jan 2023 Victoria Cross North site – Ongoing OOH works (evening/ weekend OOH) extended to Jan – Mar 2023 		
ER Inspections		
ER inspections are on a three weekly cycle weather permitting. One ER inspection was conducted on 7 December 2022 [Wednesday; Rainfall (mm) recorded prior to inspection day - 6.6 mm - 06/12; 0.0 mm on 05/12 and 04/12]. The following new actions were raised: <ul style="list-style-type: none"> VCN – North Yard Area: General housekeeping /tidy up of waste and litter required in the North Yard. Denison St - Stage 3 stormwater worksite: Area requires to be tidied up from concrete waste and ESC refreshed where impacted; with reminder to ensure appropriate controls in place for concrete washout. 		
Photos		
		
VCN – Level 2: Façade blockwork progressing on Level 2.		VCN – Level 1: Façade blockwork on Level 1.



VCN – Level 4: Concrete Pour and Vertical Walls completed on Level 4.



VCN – Level 4: Concrete Pour and Vertical Walls completed on Level 4.



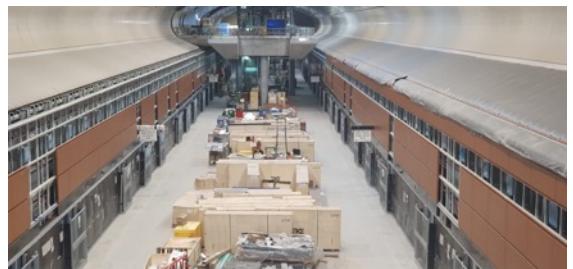
VCN: View of plenum area from Level 4 of VCN. Structural works within plenum, concrete pours/steel fixing/formwork (up to ground level).



VCN: View of Slip form from Level 4 of VCN. Slip form (currently) at Level 3.



Station Cavern: Façade installation works progressing.



Station Cavern: Façade installation works progressing above trackway.




VCS – Miller St: Hoarding removed and view of stormwater worksite on Miller St.



VCS – Miller St: Noise blankets installed appropriately around stormwater worksite on Miller St. No works at the time of inspection.

Endorsed Document/s
<ul style="list-style-type: none"> CA Denison St Stormwater Upgrade Version 4 CTR Q3 2022 VC ISD OOHWA #11 – Station Cavern Rev 5 OOHWA #17 - South evening & weekend site works Rev 11 (approved till 31 January 2023) OOHWA #24 - North site utility investigations Rev 1 OOHWA #15 VCISD - VCN evenings Rev 19 (Jan – Mar 2023) OOHWA #20 VCISD- VCN weekends Rev 10 (Jan – Mar 2023)
Complaints / Incidents / Non-compliance
<p>Sydney Metro has been providing summaries of complaints to DPE daily and a summary to the ER. Responses to complaints have been noted in each complaint report, with follow up actions often defined in revised reports. Complaints are discussed where relevant for each package below.</p> <p>There were no incidents for any of the ISDs reported to the ER under conditions A41 to A44 of SSI 7400. Where the ER is aware of minor events and non-compliances, these are as documented below.</p>
<ul style="list-style-type: none"> Nil incidents and non-compliances reported to the ER during this reporting period. Project related complaints during the reporting period are summarised below: <ul style="list-style-type: none"> 15/12/2022 – VCS - Noise & Vibration (OOHW) - Complaint received from resident regarding noise throughout the night, stating noise was continuing to 2:30am. Resident stated being able to hear the teams entering and exiting the site all throughout the night and can hear them arriving back at 6:30am to start works at 7am. Complaints unrelated to SM activities for this reporting period: <ul style="list-style-type: none"> Nil
Audits (specific to packages reported in this report)
No ER involvement in audit activity including Independent Environmental Audits.
Looking Forward – Core Focus Areas and ER Closing Comments
<p>Core Focus Areas</p> <ul style="list-style-type: none"> Denison Street stormwater work Investigation of capping beam removal methodology continuing (potentially using wire saw, where feasible). Continue to review/monitor complaint numbers and issues. Continue to review/monitor OOHWS planned and approved and promote the inclusion of noise mitigation wherever practicable – particular example for the reporting period is OOHW for Victoria Cross South Site following complaints in Nov/Dec 2022 Victoria Cross South site – Ongoing OOH (evening & weekend) extended to Jan 2023 (and proposed to be extended to Mar 2023 subject to further review/approval by ER/AA) Victoria Cross North site – Ongoing OOH works (evening/ weekend OOH) extended to Jan – Mar 2023 <p>ER Closing Comments:</p> <ul style="list-style-type: none"> One project related OOH noise complaint received during the reporting period. Project has performed generally well throughout the period and has been responsive to queries/comments raised in document reviews/discussions and any recommendations made by the ER during the reporting period.






9. ISD – Martin Place

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S) No EPL	Martin Place ISD (MP-ISD) Macquarie Bank/Lend Lease	Michael Woolley / Rui Henriques
Key Construction Activities During the Period		
Bligh Street: <ul style="list-style-type: none"> Concrete deliveries and pumping. Various other deliveries Ongoing operation of the Water Treatment Plant (WTP) and discharge of water to stormwater Martin Place South (MPS) <ul style="list-style-type: none"> Ongoing construction (FRP) of walls; columns, beams and floor slabs well above street level Other general construction activities Utilities and hoarding works (OOHWs) Ongoing use of new temporary pedestrian crossing of Martin Place between Elizabeth and Castlereagh Streets under B Class Hoarding Works in the area of the former temporary pedestrian crossing bridge Martin Place North (MPN) <ul style="list-style-type: none"> Various building work activities ongoing such as FRP for columns; lift shafts; walls; floor slabs and other various items. Various works within the SSD well above the SSI level Tower crane operating adjacent Elizabeth Street Façade and glass installation on Hunter and Elizabeth Streets Station Caverns and Adits <ul style="list-style-type: none"> Installation of ventilation/exhaust systems Other fit out activities including installation of panelling, services and fire safety systems Line Wide works in the station caverns – separated from Lend Lease activities Works to access the Martin Place station on the ESR. 		
Key Construction/Activities Look Ahead		
<ul style="list-style-type: none"> Activities as described above ongoing General OOHWs including ongoing utility works on Elizabeth Street 		
ER Inspections		
There was one ER inspection conducted by the ER on 20 th December 2022. One issue was raised during the inspection relating to maintenance of a spill kit. Site activities continue to be repetitive in nature and are building related works rather than civil works.		
Photos		
		
Martin Place North: Views from street level on Castlereagh and Hunter Streets. SSI works extend up to Level 7. Installation of glass façade ongoing.		Martin Place North: View from street level on Elizabeth Street. SSI works top out at Level 7. Use of work zone on Elizabeth Street to deliver materials using the tower crane attached to the building.

	
Martin Place north: Escalator Installation	Martin Place: Ongoing works in the location of the former bridge footpath. Site sheds above temporary walkway.
	
Stations: Tiling completed and covered for protection on the Platforms.	Martin Place South: Concreting works ongoing
Endorsed Document/s	
<ul style="list-style-type: none"> Groundwater Management Plan Rev 10.1 OOH 96 Rev 4 Utility Works Castlereagh Street (Rev 4a) OOH 92 Utilities Investigations (Rev 4) OOH 93 OOH Deliveries (Rev 3) 	
Complaints / Incidents / Non-compliance	
<p>One complaint was reported to have been received during the reporting period relating to workers sitting on the monument near Martin Place. It was not established that the workers were from the Martin Place worksite. No non-compliances were reported to or observed by the ER during this reporting period for the Martin Place site. There were no incidents reported to the ER under conditions A41 to A44 of SSI 7400 for Martin Place.</p>	
Audits (specific to packages reported in this report)	
<p>No ER involvement in audit activity including Independent Environmental Audits.</p>	
Looking Forward – Core Focus Areas and ER Closing Comments	
<p>Nil</p>	

10. Barangaroo Station (BESIX Watpac)

Project Approval	Contract Package	EPL	Environmental Representative/s
SSI 7400 (C2S)	Barangaroo Station (BESIX Watpac)	N/A	Jo Heltborg
Key Construction Activities During the Period			
<p>Civil:</p> <p>Zone 1 (Main Site):</p> <ul style="list-style-type: none"> Christmas Shutdown 24 Dec-3 Jan, with Linewide access on 28, 29 & 30 Dec for interface works Installation of precast western civil pit and trench to harbour connection complete and backfilled; awaiting connection of final outlet to harbour Stockpiling of imported tunnel spoil from Rozelle Interchange and Virgin Excavated Natural Material (VENM) from other import sites including Balgowlah Water Treatment Plant (WTP) operation. <p>Zone 2 (Shark's Fin):</p> <ul style="list-style-type: none"> Backfill continued; Form Reo Pour (FRP) of condensed water pits FRP for retaining walls for Street D; Excavation of HV pit near Dalghety House. <p>Zone 4 (Hickson Road wall):</p> <ul style="list-style-type: none"> Construction of ventilation pods along Hickson Road including completion and testing of waterproof membrane; Concrete pours ongoing. <p>Zone 5 (The Cutaway):</p> <ul style="list-style-type: none"> First stage of condensed water pipe complete and backfilled; Pressure testing complete Excavation of pipe trench to continue to the south under archaeologist supervision. <p>Zone 6 (Hickson Road, under bridge):</p> <ul style="list-style-type: none"> Excavation out of hours (OOH) for installation of stormwater system along Hickson Road complete during December, adjacent to the acoustic shed and under heritage bridge. <p>Station Box:</p> <ul style="list-style-type: none"> Blockwork and FRP ongoing Escalator and lift installation ongoing (paid concourse lifts B3-B5 glazed) Installation of sandstone and aluminium cladding / architectural finishes Hoarding built around un-tanked wall on Level B3 (ongoing management of groundwater under discussion with Sydney Metro) Services, ductwork and containment installation (electrical, fire, hydraulics) Interface works with Linewide; Platform Screen Doors (PSDs) installed and scheduled for commission, rail, sleepers and dewatering infrastructure Energised HV rooms with all service room scheduled to be energised before Christmas (major milestone). 			
Key Construction Activities Look Ahead			
<p>Zone 1 (Main Site):</p> <ul style="list-style-type: none"> Asbestos contaminated soil to be transported offsite early January 2023 Clean out (by divers) of outlet to harbour and final connection of western civil pit. <p>Zone 2 (Shark's Fin):</p> <ul style="list-style-type: none"> Continuation of backfilling of the shark's fin; Installation of NBN services. Condensed water works <p>Zone 4 (Hickson Road wall):</p> <ul style="list-style-type: none"> Strip remaining scaffolds and our screeds to protect membrane. <p>Zone 5 (The Cutaway):</p> <ul style="list-style-type: none"> Preparation for pedestrian diversion over Nawi Cove and extension of hoarding for second stage of condensed water installation and HV and stormwater works; Removal of cables and lighting poles. <p>Zone 6 (Hickson Road, under bridge):</p> <ul style="list-style-type: none"> HV installation works at night subject to out of hours works (OOHW) approval. <p>Station Box:</p> <ul style="list-style-type: none"> Continue GRC installation of finishes Lift installation including glazing ongoing Services, ductwork and cable containment installation ongoing (electrical, fire, hydraulics, security) Headland Park carpark works 			

ER Inspections	
<p>There were two inspections conducted by the ER in December 2022 (7/12/22 & 22/12/22). Issues raised and discussed were as follows:</p> <ul style="list-style-type: none"> Stockpile management including the covering of stockpiles and the maintenance of controls around the base of the VENM and ENM import stockpiles. The placement of noise blankets around machinery during night works (ensure they are installed around the right way). 	
Photos	
	
Noise blankets installed around the WTP compressor	Ongoing storage of sandstone removed from Zone 5
	
FRP for retaining walls for future internal roads	Asbestos impacted spoil management ongoing
	
Installation of precast Western civil pit (H01-02) by divers and subsequent backfill and removal of sheet piles	



Completion and backfill of condensed water system in Zone 5 (Nawi Cove)



Stockpile and dust suppression via water cart ongoing; maintenance of controls required



Site access/ heavy vehicle egress in good condition



Backfill of the Shark's Fin and connection of condensed water system ongoing



Construction of ventilation pods almost complete; scaffold removal and waterproofing ongoing

Endorsed Document/s

- OOHWA-011 - Hickson Road Night Works for Stormwater Installation Extension Dec 2022, 16/12/22
- TfNSW 67 - Consistency Assessment - Barangaroo Additional Temporary Land, 21/12/22
- BR-OOHW-002.6 Station Works Jan - Apr 2023 Rev00, 21/12/22

Non-compliance/ Incidents or Repeat Complaints

Sydney Metro has been providing summaries of complaints to DPE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow-up actions often defined in revised reports. Key or repeat items of note are discussed below for Barangaroo Station.

There were no incidents for Barangaroo Station reported to the ER under condition A41 of SSI 7400 for the period.

There was one potential incident for Barangaroo Station reported to the ER for the period (which was later reported as a Class 3 environmental incident on 6 January 2023):

- **24/12/22:** At approximately 2pm on Saturday 24th December 2022 an INSW ranger noticed that there was a sediment in the water to the west of Dukes Pier and Nawi Cove was discoloured and appeared brown. An investigation was conducted and concluded the discolouration was due to a combination of a very low tide and the discharge of the WTP at 16.5l/s in the shallow water locally disturbing the sediment on the seafloor at the discharge point.

Actions required for closure are related to the reduction of WTP discharge velocity to reduce the disturbance of the sea floor during very low tide events to prevent a recurrence. The contractor has also been advised to review the Water Discharge Impact Assessment to ensure compliance with the nominated flow rates.

There were no non-compliances reported to the ER for Barangaroo Station for the period.

The ER is not aware of any complaints reported during December 2022 related to BESIX Watpac works.

Audits

No ER involvement in audit activity including Independent Environmental Audits.

Summary of Environmental Performance

The management of stockpiles and waste classification remained an ongoing issue and in December 2022, with the ER and Sydney Metro still awaiting records requested to verify compliance with waste classification and hazardous waste transport and disposal requirements, as well as compliance with the National Environmental Protection Measure (NEPM).

Conditions of approval and legislative requirements associated with site contamination and remediation are reportedly still in the process of being reviewed by the contractor's contamination consultant, though the results of the review and remediation approach has still not yet been communicated to Sydney Metro or the ER.

The following general observations were made during the period:

- WTP and surrounds including hardstand, filter cake and IBC storage well maintained
- Western civil pit installed using crane and diver successfully without any discharge to harbour required
- Dust mitigation is ongoing and improvements in dust suppression controls have been noted
- Out of hours works in Zone 6 Hickson Road have been managed well with very few complaints; which is thought to be attributed to good communications as well as good on site management by the project team
- Confirmation of the remediation approach for the site remains outstanding; awaiting advice from contamination consultant



- Proposed plans to relocate the WTP were discussed at the end of 2022; this may involve interim measures to comply with the planning approval, meet water quality objectives for discharge to harbour etc. Potential update or addendum to the WDIA required
- EPA attended site on 16/12/22 to sight the implementation of measures post-incidents raised in relation to discharge to harbour reported to the EPA. The EPA has since closed the investigation and is understood to have been satisfied with the information provided to them.

Looking Forward – Core Focus Areas

- Relocation of the WTP and the design and implementation of water management requirements associated with this process
- Compliance with water quality parameters in the WDIA during discharge from the WTP
- Options considered for the ongoing treatment and discharge of B3 groundwater
- Dust control, particularly across the hardstand and stockpiles
- The management of works in zones with high-moderate archaeological potential and the reporting of unexpected finds
- The management, storage and disposal of coal tar and asbestos-contaminated spoil
- Completion of the Compliance Tracking Report (CTR) Q1 and Q2 2022.


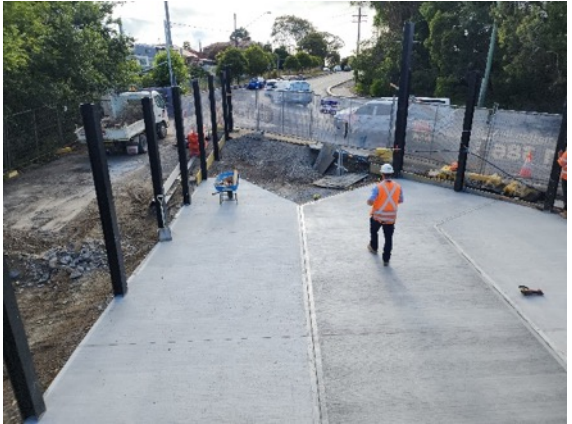


11. Sydenham to Bankstown Sydney Metro Corridor (SMC) and Bankstown Early Works (BEW) & Additional Corridor (BAC)

Project Approval	Contract Package	EPL	Environmental Representative/s
SSI 8256 (S2B)	Southwest Metro Corridor (SMC), Bankstown Early Works (BEW), and Bankstown Station & Additional Corridor (BAC)	#21147	Jo Heltborg
Key Construction and Low Impact Works Activities - During the Period			
<p>Southwest Metro Corridor (SMC):</p> <ul style="list-style-type: none"> Crews moved to close out CSR snag list - GST transitions, GLT dividers and droppers at various locations, e.g. Belmore, Hurlstone Park and Punchbowl Close-out of previous issues in relation to erosion and sediment control stemming from complaints at Melford Street, Hurstone Park including final letter to resident Culvert relining works at Hutton Street Hurlstone Park, Lakemba and Rosemount Street Punchbowl Livingstone Road Bridge, Marrickville: Parapet removal CSR Pit dewatering throughout the corridor (approx. 40 pits) Pre-Christmas Shutdown inspection by JHLOR Planning for WE32 Possession (3-5th February 2023) Canterbury Compound: Site offices and amenities, fuel and gas storage. Quenos pipe relocation to Canterbury compound Ewart Street, Dulwich Hill: Re-design of access to hi-rail Melford Street Bridge, Hurlstone Park: Materials storage pending commencement of segregation fencing and drainage works <p>Bankstown Early Works (BEW):</p> <ul style="list-style-type: none"> JHLOR scope complete <p>Bankstown Station & Additional Corridor (BAC):</p> <ul style="list-style-type: none"> JHLOR scope complete 			
Key Construction Activities Look Ahead			
<p>Out of Hours Work:</p> <ul style="list-style-type: none"> Weekend 32 Possession (WE32) 3-5th February 2023; Scope TBC <p>Other:</p> <p>SMC:</p> <ul style="list-style-type: none"> Marrickville: Continue with brick parapet removal on west side., Livingstone Road bridge Dulwich Hill: Recommence construction of new access design for hi-rail, Ewart Street Hurlstone Park: Church Street bridge piles redesign approved; works scheduled to commence (pile installation and FRP of cap) Canterbury: (possession): Culvert and drainage works, Hutton Street Lakemba: Pit installation and pipe lining Punchbowl, Stansfield Ave: SW pipe lining to continue on this system during the second week in December <p>BEW:</p> <ul style="list-style-type: none"> Nil. JHLOR scope complete. <p>BAC:</p> <ul style="list-style-type: none"> Nil (contract not awarded). 			

ER Inspections
<p>There were no ER inspections conducted in December 2022 due to very limited activities and low environmental risk, as determined by JHLOR and Sydney Metro in consultation with the ER.</p> <p>A Pre-Christmas Shutdown inspection was conducted by JHLOR with a copy provided to Sydney Metro and the ER on 23/12/22. A summary of the inspection outcomes was also provided as follows:</p> <ul style="list-style-type: none"> Soil Surface being stabilised at Wairoa Street bridge with Jute Mesh (under the bridge) and Turf (outside the bridge) Soil Surface being stabilised at Belmore T by Spraygrass Soil Surface being stabilised at Punchbowl by Spraygrass Livingstone Road Bridge and Marrickville Avenue, site area secured and no bare soil. <p>Ewart Street new site entrance:</p> <ul style="list-style-type: none"> Inside the fence, soil surface covered with DGB Outside the fence, bare soil covered with Jute Mesh and seeded. <p>Stacy Street Bridge,</p> <ul style="list-style-type: none"> Site area secured and bare soil area covered with Geofab Coir-logs installed along the fence Site entrance was secured with ballast. <p>Bankstown</p> <ul style="list-style-type: none"> East of new service building, soil surface covered with Geofab South and west of new service building, soil surface covered with DGB Along the open culvert, soil covered with dense vegetation.
Photos
Nil
Endorsed Document/s
<ul style="list-style-type: none"> Sydney_Metro_Upcoming_Compliances_SWM-Corridor-2022-Q3_Rev01_20/12/22
Non-compliance/ Incidents or Repeat Complaints
<p>Sydney Metro has been providing summaries of complaints to the Department of Planning and Environment (DPE) daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow-up actions often defined in revised reports. Key or repeat items of note are discussed below for SMC.</p> <p>There were no non-compliances reported to the ER during the period.</p> <p>There were no incidents reported to the ER under Condition A41 of SSI 7400.</p> <p>There were no Class 3 environmental incidents reported to the ER during the period.</p> <p>The ER is not aware of any complaints received during December 2022 related to the SMC works.</p>
Audits
No ER involvement in audit activity including Independent Environmental Audits.
Summary of Environmental Performance
<p>Planning is underway for the WE32 Possession. The possession scope is anticipated to be limited, though the full scope is to be determined and confirmed with the Sydney Metro enviro team and the ER.</p> <p>Environmental risks on site are generally low and mostly confined to erosion and sediment (ERSED) control at site accesses, and the stabilisation of batters and site surfaces.</p> <p>The Bankstown Station and Corridor Works (BAC) contract was not awarded to JHLOR so all scope under the DPE approved CEMP and Sub-plans has been cancelled, this includes all plans for the establishment of ancillary facilities and track slab installation.</p> <p>Tree removal within station precincts and compliance with tree numbers in the SPIR remains an ongoing focus, particularly in relation to security fencing design. The scope and details for construction of this element is also pending.</p>
Looking Forward – Core Focus Areas
<ul style="list-style-type: none"> Management of ERSED controls generally Management of noise during OOH Work, e.g. WE32 Possession Completion of the Q3 2022 Compliance Tracking Report (CTR) Condition completion and close-out of environmental issues and sites for BAC and BEW utilising the ER inspection process.

12. Marrickville, Canterbury & Lakemba Station Upgrades (MCL)

Project Approval	Contract Package	Environmental Representative/s
SSI 8256 (\$2B)	Marrickville, Canterbury & Lakemba Station Upgrades (MCL) (HSEJV)	Brett McLennan
Key Construction Activities During the Period		
<p>Marrickville:</p> <ul style="list-style-type: none"> Anti-throw screens station side mostly completed (pending possession) MSB fit-out ongoing, drainage works completed, landscaping commenced MSB driveway pour completed, security fencing install commenced Construction of the shared user path ongoing Station secondary containment installation ongoing <p>Canterbury:</p> <ul style="list-style-type: none"> MSB - continuation of service installation and utility connections, blockwork ongoing MSB substations installed Platform 0 and 2 fences are mostly complete Platform 2 CSR and stormwater are mostly complete GST brackets and containment city and country end ongoing. Installation of Lift 1 and 2 equipment ongoing HV pit installation ongoing Paver installation Canterbury Road completed Plaza works are mostly completed and re-opened to the public <p>Lakemba:</p> <ul style="list-style-type: none"> MSB internal fit-out and utility installation continued GST Installation continued Landscaping works near the station entrance ongoing 		
Key Construction Activities Look Ahead		
<p><u>All sites</u></p> <ul style="list-style-type: none"> Planning, coordination and monitoring the OOHWE WE30 (21-22/01/2023), Wk31 (30/1/2023-2/2/2023) and WE31 (4-5/02/2023). Continuation of high-level containment at all stations Continuation of MSB construction and/or fit-out at all stations Landscaping works <p><u>Marrickville</u></p> <ul style="list-style-type: none"> Temporary finish of SUP to allow re-opening (Final design pending) Radio mast earthing Minor LCR works Completion of anti-throw screens Station Street re-grading Landscaping <p><u>Canterbury</u></p> <ul style="list-style-type: none"> Station precinct works finalisation MSB cladding Lift commissioning works Complete fencing works Landscaping <p><u>Lakemba</u></p> <ul style="list-style-type: none"> MSB fit-out and cable pulling Landscaping works Installation of hearing loops Ticket office upgrades GST installation Station roller shutter installation Fencing works 		

ER Inspections	
Two ER inspections were conducted for MCL on 7 and 21 December 2022. The key issues raised during the inspections were:	
All Stations:	
Noted that housekeeping (rubbish) needed to be improved.	
Marrickville:	
<ul style="list-style-type: none"> Minor updates of ESC where drainage works had been installed at the MSB Noted deteriorated banner mesh required replacement 	
Canterbury:	
<ul style="list-style-type: none"> Reinstall metro-approved signage to compound and work areas on Broughton Street Minor ESC maintenance and update ESC for new potential flow paths after reshaping MSB batters/ramps 	
Lakemba	
<ul style="list-style-type: none"> Re-cover the relocated accessible parking marking within the compound gate 	
Photos	
	
Marrickville MSB landscaping and drainage works	Marrickville MSB driveway and security fence installation
	
Canterbury MSB blockwork and substations installed	Canterbury plaza tiling works completed



Lakemba MSB, transformers and chillers

Lakemba GST

Endorsed Document/s

- MCL CTR Q3-4 2021
- MCL CTR Q1 2022
- MCL CTR Q2 2023

Non-Compliance/ Incidents or Repeat Complaints

Sydney Metro has been providing summaries of complaints to the Department of Planning and Environment (DPE) daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow-up actions often defined in revised reports. Key or repeat items of note are discussed below for MCL.

The ER is aware of one new NCRs for the month and three complaints relating to MCL works. There were no incidents for MCL reported to the ER under condition A36 of SSI 8256.

The NCR is summarised as follows:

NCR045 – Unapproved OOH work area (Broughton Street Compound) at Canterbury (SM ID Evt-0001520). The area was not included in the approved OOHWA for the Canterbury Road works. Note due to the shutdown period, this has been raised by Sydney Metro during their January Report. Actions taken in response to the NCR included:

- There was a toolbox undertaken to ensure that the HSEJV environmental team are informed of all work areas and plant to be used earlier in the planning process. This also included timeframes for OOHWA to be submitted (internally 4 weeks prior to works), location maps matching scope maps, updated ECMs, TCP's and justification for the OOH work in accordance with the period prioritisation list.
- Specific to this NCR, the Toolbox raised that internal communication had not occurred for the work area to be included in the OOHWA and that no areas are to be used that are not in the OOHWA.

The complaints are summarised as follows:

- One noise and light spill complaint at Canterbury for OOH noise at the Broughton Street Compound (raised as NCR045)
- One complaint at Canterbury for OOH noise and request for RO for Canterbury Road works (note that RO was not triggered, and noise monitoring supported this)
- One complaint at Canterbury for OOH noise that was not related to Sydney Metro works

Audits

No ER involvement was requested in audit activity including Independent Environmental Audits.

ER Closing Comments and Looking Forward – Core Focus Areas

The ER has continued to hold meetings with HSEJV and Sydney Metro to discuss the ongoing issues and has closed out all outstanding ER actions during December. Focus on noise, ESC and site shutdown was the focus throughout the month, at Canterbury Station.

Looking forward:

- Continued implementation checks for CEMP and sub plans, focusing on noise and ESC
- CTR Q3 2022 review and endorsement
- OOHWA approvals.

13. Hurlstone Park, Belmore, and Wiley Park Station Upgrades (HBW) and Dulwich Hill Campsie and Punchbowl Station Upgrades (DCP) (Downer)

Project Approval	Contract Package	Environmental Representative/s
SSI 8256 (S2B)	Hurlstone Park, Belmore, and Wiley Park Station Upgrades (HBW) (Downer) Dulwich Hill Campsie and Punchbowl Station Upgrades (DCP) (Downer)	Brett McLennan
Key Construction Activities During the Period		
<u>Hurlstone Park</u> <ul style="list-style-type: none"> ▪ Metro Services Building (MSB) –Cladding for MSB roof, south and north walls was completed, west wall commenced. ▪ MSB chiller piling works ~50% completed ▪ Steel fixing for OSD tank completed; concrete pour pending ▪ High-level containment works ~25% completed (possession dependent) ▪ Segregation fencing works descope <u>Belmore</u> <ul style="list-style-type: none"> ▪ MSB fit out continued, and drainage works were completed. Landscaping commenced ▪ MSB – transformers installed <u>Wiley Park</u> <ul style="list-style-type: none"> ▪ MSB drainage works completed; fit out and landscaping ongoing ▪ Security fence and segregation fence installation ongoing ▪ Platform and concourse building refurbishment works continued; high-level containment works continued ▪ Platform Balustrade works ongoing ▪ Concourse glazing ongoing ▪ Plaza brickwork for planter boxes completed; landscaping works commenced ▪ Alternate south and north access paths to platforms installed, fencing commenced. <u>Dulwich Hill:</u> <ul style="list-style-type: none"> ▪ Precinct FRP for walkway commenced ▪ Kiss and ride work was completed ▪ Footbridge fit out continued ▪ Footbridge stairs FRP works completed ▪ MSB chiller and transformer installation work continued <u>Campsie:</u> <ul style="list-style-type: none"> ▪ MSB asphalt works completed ▪ Concourse MEP, Rough-In Works - 90% completed ▪ GST at MSB - Ongoing ~20% completed (pending possession) ▪ Hydraulic Connections and works at platforms and in the rail corridor ~30% - complete (pending possession) ▪ Concourse Structural Steel New Canopy Works ongoing (on hold pending design approval) ▪ Station room aircon, bike room and shop 3 ~30% completed (on hold pending design approval) ▪ Canopy containment works ~95% completed ▪ Lillian Lane footpath ~75% completed ▪ Security fencing works ongoing ▪ Platform 2 PID and DEC footing ~90% completed ▪ Platform 1 footings ongoing ~50% completed <u>Punchbowl:</u> <ul style="list-style-type: none"> ▪ MSB fit out continued ▪ MSB landscaping works descope, temporary ESC installed. ▪ Concourse roof electrical works ~85% completed ▪ Platform fit out ongoing ▪ Southern plaza landscaping works commenced ▪ Elevator commissioning continued ▪ MSB transformer installation pending ▪ GST accessories ~80% completed (Pending design approval) ▪ Cable pulling ~80% completed (Pending design approval) 		
Key Construction Activities Look Ahead		

- Landscaping for station Plaza(s) and MSB areas
- Transformer installation (Punchbowl and Dulwich Hill)
- Chiller installation (Dulwich Hill and Hurlstone Park)
- Planning, coordination and monitoring the OOHWE30 (21-22/01/2023), Wk31 (30/1-2/2/2023) and WE31 (4-5/02/2023).

ER Inspections

Two ER inspections were conducted for HBW and DCP on 7 and 21 December 2022. The key issues raised during the inspections were:

All Stations

- Site shutdown procedures
- Reminder of dust mitigation as sites dried out during windy conditions
- Minor ERSED updates to controls
- Unapproved sub-contractor signage to be removed from the rail corridor

Punchbowl

Several trees had died back in the PAD. All but one was previously scheduled for removal and Downer's arborist is to inspect the trees in early January 2023.

Campsie

It was noted that the location for relocated bike facilities was not provided on public signage and it was suggested that the relocation location be included on signage.

Photos



Dulwich Hill: Pedestrian bridge, stairs and lift shaft.



Campsie: Concourse works (on hold)



Punchbowl: Dieback of several trees (arborist to assess)



Hurlstone Park: MSB cladding installation



Belmore: MSB transformer installed and landscaping works



Wiley Park: MSB turf laying and landscape works

Endorsed Document/s

- HBW CEMP
- DCP CEMP
- HBW CTR Q1 2022
- HBW CTR Q2 2022
- DCP CRT Q1 2022
- DCP CTR Q2 2022

Non-compliance/ Incidents or Repeat Complaints

Sydney Metro has been providing summaries of complaints to the Department of Planning and Environment (DPE) daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow-up actions often defined in revised reports. Key or repeat items of note are discussed below for DCP and HBW.

The ER is aware of no non-compliances for the month and five complaints relating to DCP and HBW works. There were no incidents reported to the ER under condition A36 of SSI 8256.

The complaints are summarised as follows:

- There were two complaints from Campsie Station related to the reduced commuter seating on the platform.
- One complaint from Wiley Park relating to noise during standard construction hours.
- Two complaints from Hurlstone Park relating to worker behaviour and one scheduling of noisy work during standard construction hours.

Audits

No ER involvement was requested in audit activity including Independent Environmental Audits.

ER Closing Comments and Looking Forward – Core Focus Areas

The ER discussed potential environmental issues with Downer throughout the month, in particular in preparation for the upcoming shutdown period over the New Year. Community and contractor construction fatigue is an ongoing issue for the project. Landscaping works continued and the environmental risks of the site continue to reduce as areas are stabilised. Ongoing discussions have occurred with Downer, Sydney Metro and the ER to improve community consultation.

Looking forward:

- Continued implementation checks for CEMP and sub plans, focusing on ESC and community impacts
- Compliance Tracking Q3 2022 review and endorsement, commence Q4 2022 review.
- Coordination meetings with Sydney Metro and contractors for OOHW.
- Review site risks and evaluate ER surveillance frequency.

14. Sydney Metro Retained Obligations (SM) /Other

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S) SSI 8256 (S2B)	Sydney Metro Retained Obligations (SM) /Other	Jo Robertson
Key Construction Activities		
SM	Activities were reduced for most packages over the Xmas/New Year break. The ER is not aware of any CSW related SM construction activities other than as referred to on a package basis above.	
ER Inspections		
SM	▪ Nil	
Endorsed Document/s		
SM	<ul style="list-style-type: none">▪ Compliance tracking reviews for Q3 and Q4 2021 for both Chatswood to Sydenham; and Sydenham to Bankstown have been verified by the ER in December 2022.▪ Sydney Metro have advised the ER that Construction Compliance Report was submitted to DPE on 13 December.▪ The ER was provided an updated SM CSW Construction Monitoring/Tracking and Program Reporting Report (Rev 4, 19 December 2022) for consideration and endorsement as appropriate.	
Non-compliance/ Incidents or Repeat Complaints		
Sydney Metro has been providing summaries of complaints to DPE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for the respective projects. There were no non compliances or incidents raised by the ER against Sydney Metro for the period.		
Audits		
SM	The ER is yet to be updated on the Audit program for 2023.	
Looking Forward – Core Focus Areas		
SM	Sydney Metro is planning an OOHW Lessons Learnt / forward planning workshop with the Southwest Metro PCs, in response to recent observations of highly conservative noise models used in applications. As reported in November, the timing of this is now likely to be in the New Year.	

15. Statement of Limitations

Healthy Buildings International (HBI) has prepared this report in accordance with the requirements of Condition A24(l) of the Sydney Metro Conditions of Approval (CSSI 15_7400) and Condition A26(j) of the Sydney Metro Conditions of Approval (CSSI 17_8256). The report is for the sole purposes of Department of Planning Industry and Environment (DPIE) and Sydney Metro. It has been prepared based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this Report. This report did not assess any aspects relating to safety.

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