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Department of Planning Industry and Environment
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PARRAMATTA NSW 2124

7 May 2022
Ref: 170108-ER_DPIE-April 2022

Dear Rob

RE: Sydney Metro City & South West – ER Monthly Reports for April 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), MOD3_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), and MOD8_Blues Point Access Site (25 November 2020); 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 **April 2022**.

Yours sincerely

Jo Robertson
Environmental Representative

Cc: Sydney Metro: Carolyn Riley, Fil Cerone, Ben Armstrong, Dylan Jones, Ann Paterson, Julia Diamond, Candice Somerville
AA: Available on Sydney Metro Website
Contractors: Available to Contractors on Sydney Metro Website
DPIE Compliance: Portal
DPIE Post Approvals: Available on Sydney Metro Website



1.	Central Station	3
2.	Sydenham Station and Junction (SSJ)	6
3.	Line Wide (Tallawong to Bankstown)	9
4.	Train Service Operation and Maintenance (TSOM)	14
5.	ISDs	16
6.	Barangaroo Station (BESIX Watpac)	26
7.	Sydenham to Bankstown Sydney Metro Corridor (SMC) and Bankstown Early Works (BEW)	29
8.	Marrickville, Canterbury & Lakemba Station Upgrades (MCL)	32
9.	Hurlstone Park, Belmore and Wiley Park Station Upgrades (HBW) and Dulwich Hill Campsie and Punchbowl Station Upgrades (DCP) (Downer).....	35
10.	Sydney Metro Retained Obligations (SM) /Other	39
11.	Statement of Limitations	40

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 construction activities for the Chillers and Ventilation Building. Fit out of platform Canopies ongoing. Installation of skylight panels in Platform 14 involving coring and sawing of concrete. Fit out of the Platform and other levels. Various FRP works including mole holes. Ventilation fans operating in Mole Hole 3 with silencers. Ongoing removal of concrete by coring and saw cutting to access rail levels. Construction of ramp at southern end of the platforms. Installation of escalators and fit out within the various levels. ▪ Central Walk – Ongoing installation of new escalators and final panels around the new escalators. Other fit out activities. Works within hoarded work zones on suburban Platforms 16-23 and platform surface excavation during rail possession weekends. Works within hoarded work zones on suburban Platforms 16-23 and platform surface excavation during rail possession weekends. Excavation of spoil from some escalator access points on northern side of Central Walk. ▪ Sydney Yard – Removal of the main Water Treatment Plant with water directed to Line Wide WTP at Marrickville, except where capacity was not available. A small capacity WTP operating to treat surface waters. Truck access; laydown. Stockpiling area now being used for laydown and spoil management. ▪ Northern Concourse – Ongoing works at intersection of Northern Concourse and Metro Box area. ▪ Eastern Entrance – FRP for walls; roof slab and columns inside the shaft. Randle Lane closed. OOHWS for roof slab pour. ▪ Devonshire Street Tunnel - In operation and used by commuters. ▪ CSR works Rail Institute – Barriers remain in place for compound area used to support drilling of bores for CSR between Ghost Platform and Metro Box. ▪ ESR Concourse - Ongoing use of the area for laydown and construction support. Fit out and other construction activities ongoing. ▪ Ghost Platforms (above ESR Platforms 24-25) - Ongoing electrical and other fit out. 		
Key Construction Activities Look Ahead		
<ul style="list-style-type: none"> ▪ Ongoing activities as described above ▪ OOHWS to reinstate the pavement in front of the Rail Institute Building. 		
ER Inspections		
<p>There were two ER inspections conducted during the reporting period on 13th and 27th April. The key issues raised during these inspections were:</p> <ul style="list-style-type: none"> ▪ Management of spill kits; ▪ Secondary containment of small containers of fuel and chemicals; and ▪ Management of exposed soils. <p>Water management continued to be a challenge during the period with continued wet weather; the WTP being de-commissioned; and Line Wide not able to accept water during the whole period. LOR reported that water was pumped to the surface and on to the WTP. It was noted during inspections that there was some pooling of water on the surface where some water has potentially overtopped controls to the environment (ballast). Discharge of water to the environment is covered under the Water Overflow Strategy. The is an ongoing action for LOR to update this document to better reflect the current site arrangement.</p> <p>The project is largely in a building phase, with reduced civil works and hence reduced risks as compared to previous stages of the project.</p>		

Photos



Northern Concourse



New canopy on Platform 12-13



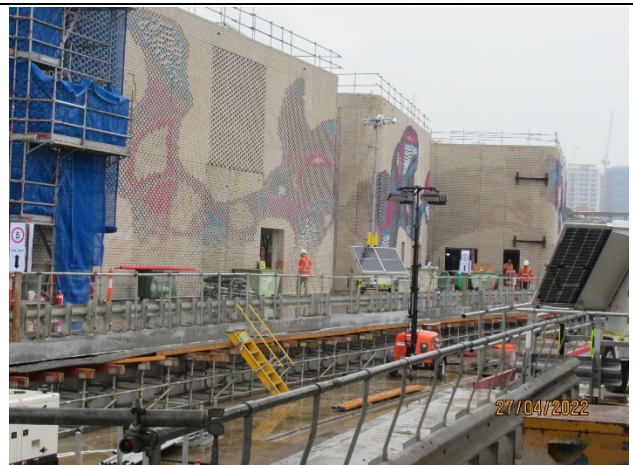
New canopies on Platforms 12-15



Preparation for concrete pour on roof of the Eastern Entrance



Central Walk



Artwork on ventilation building

Endorsed Document/s

- Nil

Non-compliance/ Incidents or Repeat Complaints

Sydney Metro has been providing summaries of complaints to DPIE daily as well as to the ER. There were 2 complaints reported during the reporting period and one for late in the previous period. Two complaints related to noise, with one of these not related to Sydney Metro works. A complaint late in the previous reporting period related to wayfinding at the station.



No non compliances were observed by the ER or reported to the ER during the reporting period. No Incidents were reported that would trigger reporting under Condition A41.

Audits

There were no audits conducted during the reporting period.

Looking Forward – Core Focus Areas

- | |
|---|
| <ul style="list-style-type: none">▪ Water Management▪ Heritage Reporting |
|---|

2. Sydenham Station and Junction (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: Demobilisation and clean-up complete including removal of sites sheds, generators, storage containers and amenities. Geotechnical Area: Completion of boundary fencing ongoing. Development Area: Handed over to Sydney Metro. Main Site (11 Sydenham Road): Minor defect work ongoing. Sydenham Station: Sydney Metro screen door installation on Platforms 1, 2 & 3 by TSOM. Secondary Plaza: Operation of TSOM site compound continued with JHLOR as the Principal Contractor. Sydenham Road: Works complete and landscaping established. Boundary fencing moved back to open the footpath. Garden Street: Landscaping complete and road reopened for public use. To be removed from JHLOR EPL Premise Maps. Sydenham Pit and Pumping Station / Confluence Area: Works complete adjacent to RW4, some materials to be removed. Finalisation of Sydenham Pit and Pumping Station handover to Sydney Water in progress. Way Street Laydown Areas: Materials removal ongoing for handover to Sydney Trains. XPT Laydown: Sydney Trains handover process to be formalised. Carrington Road Laydown: Spoil load-out to Gateway project continued. Sydney Water handover process to be formalised. Bedwin Road: Completion of boundary fencing (including solution for residents at Edgeware Road apartments complete. Defect works ongoing. 			
Key Construction Activities Look Ahead			
<ul style="list-style-type: none"> Geotechnical Area: Final gate design and installation. Bedwin Road and Edgeware Road: Defects. Sydenham Pit, Pump House: Formal handover to Sydney Water. Way Street & XPT Laydown Areas: Preparation for formal handover to Sydney Trains. Carrington Road Laydown: Spoil load-out to Gateway ongoing prior to handover to Sydney Water. TSOM site compound: Continued operation. Ongoing defect work (station, CSR pits). 			
Summary of Environmental Performance			
<p>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 fencing and defects remaining. The project site is being maintained well and the new Sydenham Station structure, plazas, heritage interpretation features, and landscaping are looking very stylish. Waiting on completion of all scope and spoil load-out from laydown areas before handover and condition completion is finalised.</p>			
ER Inspections			
<p>There was one ER inspection conducted by the ER in April 2022 (19/04/22). The key issues raised at the inspection were:</p> <ul style="list-style-type: none"> the removal of graffiti the Bedwin Road footbridge, Sydenham Pit Pump House and on the confluence structure. Handover of the site and various compounds and condition completion. 			

Photos



Landscaping and public art installations were being maintained in good condition



Stabilisation of the development area was complete and was handed over formally to Sydney Metro

Landscaping at the end of Garden Street was complete and the road and parking reopened to the public



Installation of security fencing along the main site boundary was ongoing.

Graffiti scheduled for removal on the Bedwin Road bridge

Endorsed Document/s

- SSJ CEMP Rev17
- SSJ CNVMP Rev10
- SSJ AQMP Rev11
- SSJ CSWMP Rev13



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 SSJ.
<ul style="list-style-type: none">▪ The ER is not aware of any non-compliances for SSJ for 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 April 2022 that could be attributed to the SSJ works.
Audits
No ER involvement in audit activity including Independent Environmental Audits.
Looking Forward – Core Focus Areas
<ul style="list-style-type: none">▪ Completion of selected Conditions of Approval and REMMs▪ Completion of the SSJ CTR 2022 Q1

3. Line Wide (Tallawong to Bankstown)

Project Approval/ EPLSs	Contract Package	Environmental Representative/s
SSI 7400 (C2S) SSI 8256 (S2B) SSI 5931 (SMTF)	Line Wide (Tallawong to Bankstown)	Swathi Gowda (North /South) George Kollias (Alternate ER)
Key Construction Activities During the Period		
<p>Key Construction Activities below, as reported by Systems Connect (Contractor) for Line Wide Works:</p> <p>Northern Hub (Incorporating Chatswood Dive Site Northern Connection, Hopetoun Ave and Valetta Lane)</p> <p>Chatswood Dive Site (CDS)</p> <ul style="list-style-type: none"> Northern dive building - FRP works ongoing Northern dive building - Mechanical and electrical works ongoing in Plant/Fan Rooms <p>Northern Connection</p> <ul style="list-style-type: none"> Base slab concrete pours completed Preparatory works underway for track slab concrete pour Breakout of concrete; Pre-pour survey inspection Form Reo Pour (FRP), welding and continuity testing works (Area 7) <p>Hopetoun Ave and Valetta Lane</p> <ul style="list-style-type: none"> Hopetoun Ave – worksite demobilised. Valetta Lane - no works and site closed– inspected from externally only. <p>Artarmon BPS Works Site – Carlotta St</p> <ul style="list-style-type: none"> Cable pulling completed; backfilling and demobilisation from site on 12 Apr 2022 <p>Blues Point</p> <ul style="list-style-type: none"> Trimming and compaction works Site hoarding removed <p>Operation of compound and laydown at Belmore Compound</p> <p>SW Corridor Traction Substation sites</p> <ul style="list-style-type: none"> Punchbowl TSS <ul style="list-style-type: none"> FRP works and steel fixing Preparatory works underway for last wall pour Installation of handrail around perimeter of TSS walls Lakemba TSS – RDO; site closed – not inspected Campsie TSS (no external works at time of inspection; works limited to TSS buildings): <ul style="list-style-type: none"> Steel rectification Installation of control, earthing cables, 125V batteries Canterbury TSS <ul style="list-style-type: none"> FRP works continuing on Retaining Wall 1 (RW1) Preparatory works underway for concrete wall pour Dulwich Hill TSS <ul style="list-style-type: none"> Core drilling and grouting work Install of structural steel <p>Canterbury to Campsie BPS</p> <ul style="list-style-type: none"> Pat O'Connor (POC) Reserve, Canterbury: <ul style="list-style-type: none"> Cable bridge works completed Restoration works scheduled to occur (weather permitting) Campsie BPS Joint Bay worksites (Anzac St, Cooks Ave and Gould St) <ul style="list-style-type: none"> Excavation of joint bay (JB) worksites Extent of damaged cables removed from all three JB worksites Dewatering and cable pulling scheduled <p>Barangaroo Laydown Area</p> <ul style="list-style-type: none"> Loading/unloading of deliveries; sorting and moving of materials in yard to increase storage space 		

Southern Dive & SMTF South Marrickville:

- Operational WTP – structural steel works, roof installation, mesh installation on drainage completed
- Administration Building – cladding, electrical cable installation and mechanical works ongoing
- Maintenance Building – structural steel, roof mesh installation and cable containment works ongoing
- Bin Area – blockwork progressing
- Stabling Yard - capping and grading works ongoing
- FRP works - track slab, platform/walkway
- Southern Dive Services Building – gutter installation works
- Southern Dive Services Building - blockwork largely completed with infilling works underway
- Southern Dive Transformer Yard – structural steel installation underway
- Southern Dive Ridge Room and DC Links Room – roof installation works underway

Key Construction works/activities Look Ahead

Look-ahead of upcoming activities /works:

- Campsie BPS Joint Bay cable removal cable pulling and dewatering works (Standard Construction Hours)
- OOHW Campsie BPS Joint Bay dewatering works (contingency OOHW for dewatering, dependant on wet weather – mid April to mid-May)
- Compliance Tracking Report (CTR) - Q1 2022 CTR reporting and review process for LWW
- General focus on ERSED maintenance/ any additional improvements required to controls in wet weather
- Midyear shutdown possession, scheduled from 2 July 2022 to 14 July 2022 and associated OOHWAs/noise modelling including cumulative impacts.

ER Inspections

There were four ER inspections conducted by the ER in April 2022 (05/04/22; 12/04/22; 19/04/22 and 26/04/22). Key notes/issues raised are summarised below:

Southern Dive, SMTF South, BPS and Barangaroo Laydown Area:

ER Inspection #105 - SMTF S, BPS and Barangaroo Laydown Area – 05/04/22 (Tuesday) and ER Inspection #108 - SMTF S and BPS works– 26/04/22 (Tuesday)

Canterbury to Campsie BPS - Pat O'Connor (POC) Reserve (Canterbury):

- Cable bridge worksite (Ausgrid side) – batters remain covered and sediment controls remain in place. Some maintenance required to remove accumulated sediment in drain (Ausgrid side), along the toe of the batter. Action raised and closed out by SC.
- POC Reserve restoration works – ESC remains in place with additional cover installed, since last ER inspection. Some maintenance required to remove sediment at low point of sediment fence and additional stake recommended to support sediment load/fence. Action raised and closed out by SC.
- POC Reserve – Cable Bridge Worksite (Ausgrid side) - Batters remain covered and sediment controls remain in place. Some evidence of erosion on geofabric protecting the batter; noting that additional sediment controls are in place alongside Cup and Saucer Creek. Discussed with SC to monitor and address/refresh batter controls. Ongoing monitoring required to address/refresh controls.
- POC Reserve (near Anzac St) - Discussed temporary fencing /material storage (jute mesh, pallet) in area with SC and consolidation into existing worksite compound. Action raised and closed out by SC.
- POC Reserve – near Anzac St - Topsoil stockpile remains in previous Anzac St Compound, for restoration works scheduled to occur (weather permitting). Damaged gravel bags to be replaced. Action raised.

Campsie BPS Joint Bay worksites (Anzac St and Cooks Ave)

- Discussed set-up of both JB worksites with SC regarding project signage requirements and shade cloth installation, following further discussion and confirmation with SM Comms. Action raised and closed out by SC.

Southern Dive & SMTF South Marrickville:

- WTP discharge point - refreshing of geofabric and maintenance required of accumulated sediment around discharge point. Action raised.
- ESC noted along the kerb drain and gutter. SC informed the ER that scheduled maintenance is on Saturdays. ER requested photos, post scheduled maintenance. Note raised and closed out by SC.
- Tagging observed on signage at Gate S2 and on section of recently installed shade cloth. SC to address graffiti in accordance with the VAMP. Action raised.
- Administration Building – Damaged sediment bags noted with geofabric (some rips) protecting drain requiring refreshing. Action raised.

Barangaroo Laydown Area

- Discussed with SC regarding investigating and implementing option for sediment control (minor fine material observed) around main stormwater drain within (predominantly) hardstand and trafficable area. Action raised and closed out by SC.

ER Inspection #106 - Northern Hub, Artarmon – TSS and Blues Point Access Site 12/04/22 (Tuesday)

Valetta Lane

- Temporary stockpile area - discussed with SC re stockpiling of spoil / concrete in proximity to trees (not significant / regrown vegetation) on batter and whether delineation flagging or other physical controls are in place. SC informed the ER that stockpiling is temporary following recent possession works and is scheduled to be removed by trucks over next few days (weather permitting). Following ER inspection, SC investigated options with Site Team and informed the ER that barriers will be installed once spoil is removed and prior to WE43 possession. Action raised and closed by SC.

Northern Hub

- WTP Chemical Storage – It was noted that label on IBC was faded, with label on bund in place. Remainder of IBCs including bunds were observed to have labels in place. Discussed faded label replacement with SC and action raised.
- Northern Connection - new minor tagging noted on concrete walls. Action raised.
- Northern Connection - Stormwater pit grate to be cleaned out/protected further with geofabric. Controls noted around pit. Action raised.

SW Corridor Traction Substation sites

ER Inspection #107 - 19/04/2022 (Tuesday)

Canterbury TSS

- Some sediment observed on Hutton St (opposite the site access/egress – refer photo below). Discussed with SC regarding cleaning up material from road surface. Action raised and closed out by SC.

Punchbowl TSS

- Site access/egress (South Terrace) – Site access/egress (South Terrace) – tracking marks from site observed with minor material, near site entry. SC informed the ER that sweeping is scheduled to occur and ongoing monitoring in place if material load out activities are being undertaken. ER requested clean-up photo and was provided by SC.

Photos



Blues Point Access Site - Trimming and compaction works underway (lower end of site, near Harbour side).



Northern Hub - Tunnel (Up) - Sound proofing, services (temporary/permanent), HV cabling, walkway installation and extent of track installed upto Victoria Cross Station.



SMTF – S Maintenance Building - structural steel, roof mesh installation and cable containment works ongoing.



SMTF S – Rail and sleeper install ongoing.



POC Reserve - ESCs remain in place. Awaiting improved weather for restoration works to commence.



Canterbury to Campsie BPS - Joint Bay worksite (Anzac St)



SMTF – S - Track slab FRP works ongoing.



Dulwich Hill TSS - Steel installed for future façade panels.

Endorsed Document/s

- OOHWA- 215- Campsie BPS Joint Bay Dewatering
- OOHWA -216 - Campsie BPS Traffic Control and Joint Bay Dewatering on South Parade
- OOHWA – 221- Lakemba TSS - WE45 Structural Steel
- OOHWA- 217 WE45 Dulwich Hill TSS Civil Works

- OOHWA - 219 Punchbowl TSS WE45 Delivery and Lift
- OOHWA- 222 Artarmon TSS Facade Works
- OOHWA- 220 Artarmon TSS Kerb, Guttering and Landscaping
- OOHWA-218 - Campsie TSS WE45 Transformer and Façade Installation
- LWW CTR Q4 2021

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.

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 non-compliances were reported to the ER in this reporting period.

The following minor incidents (Class 3 events) reported to the ER, for this reporting period.

- 1/4/22 INC – Northern Connection (NC) Dive Area – Class 3- Oil leak from flex drive motor, dripped <100ml of engine oil onto concrete surface in dive area. Equipment removed and spill kit contents deployed to clean the leak
- 20/4/22 INC – Chatswood Dive (Down Side Track Slab at Chatswood Portal) – Class 3 -Whilst releasing air brakes for Manco 123, the Operator heard a loud bang and ceased operation immediately. Upon investigation, differential oil spill (approx. 50 L) had begun to discharge onto the track slab. Spill kit materials deployed to successfully clean up spill. The spill was fully contained within the hard stand and did not enter any drains in the dive structure (noting that the dive structure drains to the WTP). There was no risk in any time of the differential oil escaping the site boundary or being discharged off site. Further spill clean-up photos provided by SC, on request.
- 20/4/22 INC – Gould St JB, Canterbury– Class 3 - Whilst loading a skip bin, hydraulic hose disconnected momentarily from the truck and leaked hydraulic oil (<2 L) onto the asphalt road. Spill kit materials were deployed to clean up the leak. The hydraulic hose was reattached to rectify the issue

LW Northern Sites - Complaints:

- Two complaints (2/4/22 and 23/04/22) - NC (Chatswood) - related to lighting from same complainant (day maker shining into complainant's kitchen from site). ER further queried resolution of second complaint with SC to understand if anything further could be done to address/prevent complaint in the future. SC confirmed that the day maker had already been moved over the possession weekend and would never be put back there again.
- Five complaints unrelated to SM (24/4/22 and 25/04/22) – NC (Chatswood)/Artarmon Power Upgrade - related to OOHWA noise /notification

LW Southern Sites - Complaints:

- One Complaint unrelated to SM (19/4/22) - Marrickville Dive Site & SMTF South – related to property damage

Audits

- Nil this reporting period

ER Closing Comments and Looking Forward – Core Focus Areas

- Reduction in total number of Project related complaints received in April 2022 (2) compared to complaints received in March 2022 (7 complaints); with no complaints related to Blues Point site in April 2022 (potentially due to works ramping down to park reinstatement works). Refer ER note above within the complaint section related to 2 x lighting complaints.
- Current works at LWW sites are being managed appropriately; with some sites transitioning to low environmental risk (for example: Artarmon TSS and Campsie TSS).
- Overall, environmental performance is good. ER Inspections across this month identified minor actions - generally additional improvements or maintenance to existing controls.
- The Project Team continue to be responsive to queries/comments raised in document reviews and any recommendations made/actions raised by the ER.

Looking forward:

- Ongoing Campsie BPS Joint Bay cable removal cable pulling and dewatering works (Standard Construction Hours).
- OOHWA Campsie BPS Joint Bay dewatering works (contingency OOHWA for dewatering, dependant on wet weather – mid Apr- mid May). As per the ER's OOHWA condition, SC is required to provide a weekly progress report of any OOHWA for dewatering. SC reported no OOHWA undertaken for dewatering in April; actual OOHWAs undertaken to be monitored in May through weekly progress report updates from SC to the ER.
- Midyear shutdown possession, scheduled from 2 July 2022 to 14 July 2022 and associated OOHWAs/noise modelling including cumulative impacts.

4. Train Service Operation and Maintenance (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 (North /South) George Kollias (Alternate ER)
Key Construction Activities During the Period (April 22)		
<ul style="list-style-type: none"> ▪ SMTF North: Dynamic train testing between SMTF North and Chatswood (4– 8 Apr 22; 11 – 29 Apr 22) ▪ SMTF South: Cable fit out in the Administration Building ▪ Artarmon Substation: Testing and commissioning works ▪ Northern Corridor: Site inspections ▪ Tunnels: Installation of cables and trackside equipment in tunnels and cross passages 		
Tunnels		
<ul style="list-style-type: none"> ▪ Southern Dive - Waterloo Station to Pitt Street Station: Installation of cross passage (XP) equipment and cables ▪ Southern Dive - Pitt Street Station to Victoria Cross Station: Installation of trackside equipment, signalling cables, XP equipment and communications cabling ▪ Victoria Cross Station to Crows Nest: Site inspections ▪ Northern Dive to Crows Nest Station: Cable and cable tray installation, fibre splicing and termination of radio cables 		
Stations		
<ul style="list-style-type: none"> ▪ Victoria Cross Station: Installation of cables and communications equipment ▪ Crows Nest Station: Inspections and site visits ▪ Martin Place Station: Inspections and survey, and cable installation ▪ Waterloo Station: Installation of PSD, cable trays in station rooms and cables ▪ Central Station: Installation of PSD, cabinets, cables and communications equipment ▪ Sydenham Station: Installation of Platform Edge Barriers, communications equipment, testing and commissioning ▪ Pitt Street Station: Inspections and site visits; installation of cables and communications equipment. 		
Key Construction Activities Look Ahead – May 2022		
<ul style="list-style-type: none"> ▪ SMTF North: Dynamic train testing between SMTF North and Chatswood ▪ SMTF South: Cable fit out in Administration Building ▪ Artarmon Substation: Testing and commissioning works ▪ Northern Corridor: WE45 possession – asset relocation ▪ Southwest substations: Installation of communication equipment and cables at Campsie Traction Substation ▪ Tunnels: Installation of cables and trackside equipment in tunnels and XPs 		
Stations		
<ul style="list-style-type: none"> ▪ Central: Installation of Platform Screen Doors (PSD) and communications equipment ▪ Waterloo: Installation of PSD and communications equipment ▪ Sydenham: Installation of Platform Edge Barriers and communications equipment, testing and commissioning work ▪ Crows Nest: Access - End of May or early June (TBC). First activity: Fit out in equipment rooms ▪ Victoria Cross: Installation of PSD and communications equipment and cables ▪ Martin Place & Pitt Street: Survey, delivery of materials, installation of PSD and communications equipment and cables 		
ER Inspections		
<ul style="list-style-type: none"> ▪ No ER inspections conducted in April 2022. 		
Photos		
<ul style="list-style-type: none"> ▪ Not Applicable 		
Endorsed Document/s		
<ul style="list-style-type: none"> ▪ Nil this reporting period 		
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
Development of TSOM Internal Compliance Tracking Register (CTR) by the Contractor for three planning approvals (progressing).

5. ISDs

Project Approval	Contract Package	Environmental Representative/s
SSI 7400 (C2S) (Does not include associated SSDs)	Martin Place ISD Macquarie Bank/Lend Lease	Michael Woolley / Rui Henriques
	Victoria Cross ISD (VC-ISD) - Lend Lease	Swathi Gowda / Michael Woolley
	Crows Nest ISD – AW Edwards	Rui Henriques / George Kollias
	Pitt Street ISD – CPB Contractors	Rui Henriques / Michael Woolley
	Waterloo ISD – John Holland	George Kollias / Swathi Gowda
Key Construction Activities During the Period		
MP-ISD		
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 Jump form use Other general construction activities. Pumping of water to MPN WTP. Utilities and hoarding works (OOHWs) 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 well above street level. 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. 		
VC-ISD (update from Contractor)		
Construction Activities: VC North: <ul style="list-style-type: none"> Structural works within shaft, concrete pours/steel fixing/formwork (up to B06) Waterproofing Station Cavern: <ul style="list-style-type: none"> East trackway handed over to Line Wide Blockwork and GRC panels installation Station fit-out VC South: <ul style="list-style-type: none"> Carpark slab (up to B02)/station slabs concrete pours (B05), steel fixing and formwork. Jump form pours and lift Waterproofing Blockwork 		
CN-ISD		
<ul style="list-style-type: none"> Waterproofing, steel fixing and shuttering (Sites A - C) Surplus materials excavation of Site C completed Concrete pumping and pouring Services, finishes and fit out of B5 platform, B4 OTE, B3 plant room. Line Wide works on B6 (Platform) including concrete pouring on Clarke Lane Girder Deliveries Disassembling and reassembling of gantry on Hume Street. 		

PS-ISD
Pitt Street North <ul style="list-style-type: none"> Concrete pours on Ground floor in east Complete Shotcreting to B03 – North and East walls. Capping beam demolition along Park Street – ongoing. Depending on progression of slabs overhead. Complete Infill slabs – tidying up Stretcher scaffold being dismantled Pitt Street South <ul style="list-style-type: none"> Tunnel ventilation jump form dismantle Central jump form dismantle Level 3 slab pours - ongoing Blockwork on Levels B02 and B1. Continue with services works on Level B04 and B03 B04 – Front of house fit out ongoing. Installation of precast façade elements to level B2 Adits and Platform Caverns <ul style="list-style-type: none"> GRC (lower internal cladding) panel installation ongoing. Installing cladding subframes above GRC panels Dismantling temporary accommodation sheds in south adit and installation in north adit (ongoing)
WL-ISD
<ul style="list-style-type: none"> Electrical utility and water utility works ongoing in local roads around site by subcontractors Continued use of Cope St Closure for crane activities Ongoing FRP and beam install for Ground Level slabs Ground level blockworks Delivery of columns via jinkers and crane into position at south end of site B2 / B3 blockwork and back of house electrical and hydrant fit out Platform Level fit out with cladding and escalator commissioning Platform screen doors and track works by Others
Key Construction/Activities Look Ahead
MP-ISD
<ul style="list-style-type: none"> Activities as described above ongoing. OOHs relating to utilities and hoarding
VC-ISD
<ul style="list-style-type: none"> Victoria Cross South - OOH (night works) stormwater upgrade works on Miller Street continuing (Mar –May 22) Victoria Cross North site – OOH works (evening/ weekend day OOH) - structural and fit-out works within the north shaft, with supporting activities at the north yard (now extended to continue across May – Jun 22) CTR Q1 2022 reporting and review process
CN-ISD
<ul style="list-style-type: none"> Waterproofing, steel fixing and shuttering (Sites A - C). B4 OTE Concrete pumping and pouring. Services, finishes, and fit out of B5 (platform), B4 OTE, B3 and B4 plant rooms. Interface- Line Wide works on B6 (Platform) including concrete deliveries on Clarke Lane Oversize over mass (Precast Girders) delivery. Disassemble jump form on Site B

PS-ISD
<p>Pitt Street North</p> <ul style="list-style-type: none"> Formwork, steel fixing and slab pours on Floors 1 and 2 Complete Shotcreting to B03 – North and East walls. Capping beam demolition along Park Street – ongoing. Depending on progression of slabs overhead. Installation of precast façade elements Utilities Works on surrounding streets <p>Pitt Street South</p> <ul style="list-style-type: none"> Ventilation shaft jump form disassemble Level 3 slab pours - ongoing Blockwork on Levels B02 and B1. Continue with services works on Level B04 and B03 B04 – Front of house fit out ongoing. Installation of precast façade elements Utilities Works on surrounding streets <p>Adits and Platform Caverns</p> <ul style="list-style-type: none"> GRC (lower internal cladding) panel installation ongoing. Installing cladding subframes above GRC panels Dismantling temporary accommodation sheds in south adit and installation in north adit (ongoing)
WL-ISD
<ul style="list-style-type: none"> Use of Cope Street closure by both ISD and Linewide Contractors Ongoing utility works ongoing in local roads around site, including OOH Ground Level FRP and fit-out
ER Inspections
MP-ISD
<p>There was one ER inspection conducted by the ER on 29th April 2022 (ER inspections are on a four-week cycle). One issue relating to lack of secondary containment for a 205L drum was raised during the inspection.</p> <p>Lend Lease reported that water treatment plant operations had kept up with the elevated rainfall received during the month.</p>
VC-ISD
<p>One ER inspection conducted by the ER on 12 Apr 2022 (Tuesday) (ER inspections are on a three weekly cycle weather permitting). The following issues were raised including actions for the Contractor to address:</p> <ul style="list-style-type: none"> Spill kit (located near Alimak access) noted to contain minor rubbish. Action raised. North Yard Area and Site Access/Egress: Some cement dust spill (potentially from bin removal) observed on the hardstand area of the North Yard, with sand applied to contain it. Minor tracking observed on McLaren St and at the site access/egress. It is noted that the surface catch drain at the front of the site would contain run-off from the site; with a sump arrangement and underground storage tank below the driveway, prior to being pumped to the Project Water Treatment Plant (WTP). Action raised and closed out by Contractor. VC North - Minor tagging observed on small section of hoarding. Action raised.
CN-ISD
<p>There were two ER inspections conducted by the ER and the Alternate ER on 5 April 2022 (during precast guider deliveries) and 27 April 2022 respectively (ER inspections are on a fortnightly cycle weather permitting). The following issues were raised:</p> <ul style="list-style-type: none"> Stormwater pit ERSED protections on Clark Lane South required coir log installation to direct runoff into drain warden. Maintenance clean of sediment accumulated behind the speed humps required at Clark Lane required Appropriately dewater hazardous substances bund at B3. Consider moving bund further under cover. Polystyrene foam waste to be cleaned up at Level B3. Implement measures to control foam degradation and waste generated after use <p>Discussion about fans implemented onsite to attempt to improve air circulation and perceived air quality. Set of 4 fans generating a significant amount of noise. Set of 2 fans placed in horizontal arrangement are not discernible amongst noise of site. Investigations continuing regarding noise attenuation and/or barriers for noisy fans from an occupational noise perspective, and prior to any use Out of Hours (OOH)</p>

PS-ISD

There was one ER inspection conducted by the ER on 5 April 2022 (ER inspections are on a 3 weekly cycle weather permitting). There were no issues raised during the inspection.
Discussed second relocation of real-time noise monitor on south site with Acoustic Advisor. Monitor to be relocated by acoustic consultant as appropriate.

WL-ISD

One informal ER Drive-by Inspection undertaken by ER during rainfall event on 06/05/22. No issues were observed outside the site boundaries or site gates.

There was one ER inspections conducted by the ER on 21/04/2022 (ER inspections are on a 3 weekly cycle weather permitting). The key points raised at this inspection were:

- Sweeping of internal pavements required at Wellington St Gate, where movements are generating dust. Remove pothole which holds water to mitigate dirt tracking from this gate
- Some wetting down the internal access to suppress dust on Internal Access and Botany Rd gates. Sweeping of internal pavements required where movements are generating dust and to mitigate dirt tracking from these gates
- Utility works undertaken through Botany Rd / Henderson Rd Intersection during the Easter weekend, with only one complaint regarding alternative accommodation. No complaints regarding the works
- Improvement in slurry control / sedimentation of adjacent stormwater pit required where water draining to pit from saw-cutting activity on Raglan St

MP-ISD



Platform Caverns – Fit out and block wall construction for back of house operations



Bligh Street ramp



Martin Place South – Ongoing FRP works



Martin Place South – Ongoing FRP works



Martin Place North – FRP for concrete slab and beams.



Martin Place North – Jump form

VC-ISD



Victoria Cross South (VCS) - Carpark (Level B2) - FRP works on wall progressing



Victoria Cross South (VCS): Access ramp works underway (leading to Level B2 of carpark)



Victoria Cross South: Waterproofing works progressing along on the Western side of Station and adits.



Cavern: Lift framework installation progressing



Cavern: Installation of cladding and GRC panels progressing on Cavern roof.



Victoria Cross North – North Yard Area - No concrete deliveries in enclosure at time of inspection. Cleaning in progress, post concrete pour.

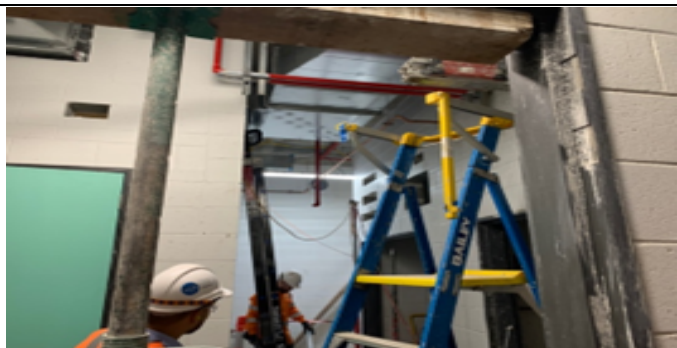
CN-ISD



Level B3 – Hazardous Substances bund



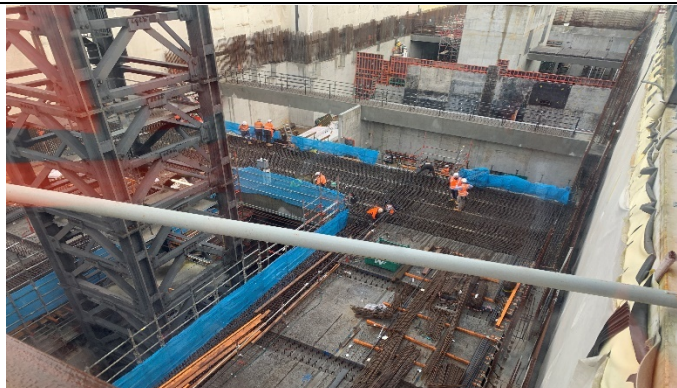
Level B3 – Polystyrene foam waste to be cleaned up



Painting, hydrants and HVAC install activities Level B5



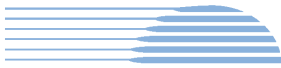
Clarke Lane - coir log to need direct to runoff into drain



Site A view North - B2 Slab steel fixing and formwork



Level B2 view South – Slab Steelfixing and formwork



HBI

Healthy Buildings International Pty Ltd



Pacific Highway logistics lane Mobile crane onsite assisting with lifting activities



South Level 3/2 perimeter wall formwork

PS-ISD



Pitt St South (PSS): Pre cast façade elements to Level 2.



PSS: Various steel fixing and formwork activities Level 2.



PSS - Formwork Level 3



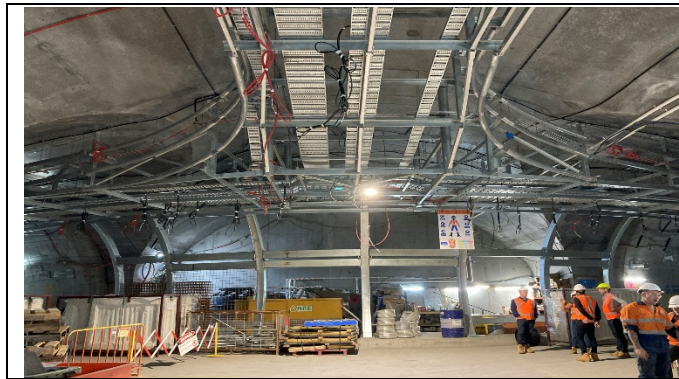
PSS B4 Services installation



Western Platform, lower GRC cladding



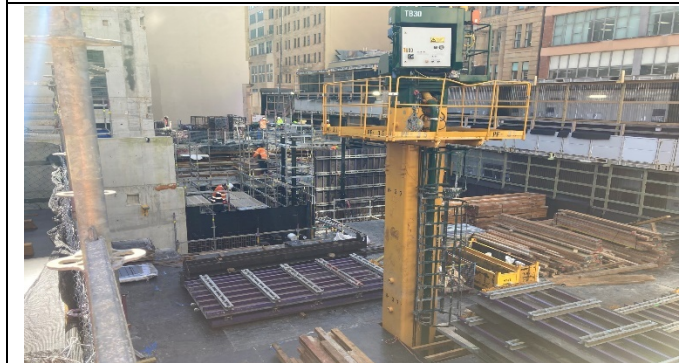
Eastern cavern: Structure for upper cladding panels



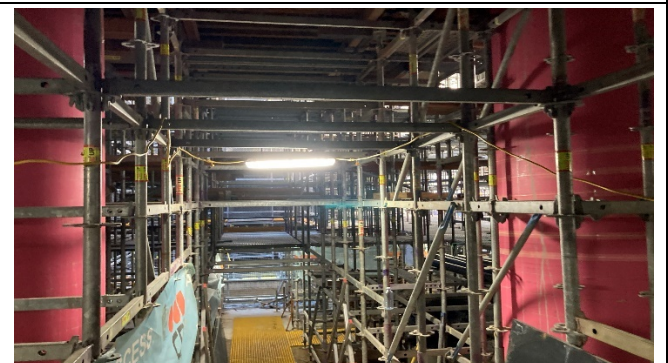
Pitt St North (PSN): Adit services installation.



PSN western side: FRP at level 2



PSN south-eastern side: FRP at Level 1



PSN: Internal view of Level 0 Mega columns.

WL-ISD



Ongoing FRP and recent commencement of blockworks (including block cutting) on Ground Level



Utility works undertaken through Botany Rd / Henderson Rd Intersection during the Easter weekend. Alternative accommodation offers implemented, few taken up. Works completed early. One complaint received during the weekend regarding alternative accommodation, no complaints regarding the works

Endorsed Document/s

MP-ISD

- OOHW 092: Utility Investigations April-May Rev 2

VC-ISD

- VCISD - OOHW15 Rev 11 and 12 - Victoria Cross North site May-June evenings
- VCISD - OOHW20 Rev 3 and 4 - North site May-June weekend

CN-ISD (all by ER)
<ul style="list-style-type: none"> Extension of approval of Clarke Lane minor Ancillary Facility to 2 June 2022 to align with extension to ROL
PS-ISD (all by ER)
<ul style="list-style-type: none"> Extension of OOHWA 037 - Hoarding Waterproofing Works North Site approval to accommodate additional rectification requirements from City of Sydney OOHW 040 – Façade Installation to 1 June 2022.
WL-ISD
<ul style="list-style-type: none"> OOHWA #31 Capping Beam Removal – Works proposed for weekend and public holiday OOH of Easter and ANZAC Weekends not supported by ER / AA / SM OOHWA #32 Botany Rd Crossing Rev A OOHWA #28 Ausgrid Outage 2 Rev E OOHWA #32 Botany Rd Crossing Rev B OOHWA #33 May, June & July General Rev A OOHWA #34 May Utilities Rev A
Complaints / Incidents / Non-compliance
<ul style="list-style-type: none"> ALL <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>
MP-ISD
<p>Nil incidents or non-compliances were reported or observed during the reporting period.</p> <p>There were no complaints reported to have been received by Lendlease during April. One complaint was received late in the previous reporting period however was identified to not be related to Sydney Metro works.</p>
VC-ISD
<p>Nil incidents or non-compliances reported to the ER during this reporting period. There were four Project related complaints (summarised below) during the reporting period relating to:</p> <ul style="list-style-type: none"> 1/4/2022 - Noise & Vibration – OOHWA (complaint relating to the OOH AusGrid kiosk works undertaken the previous week – in relation to the third and final night of works (completed), which were expected to be the fairly quieter night, in terms of noise). 4/4/2022 - Noise & Vibration – OOHWA - deemed unrelated to SM works as resident from Kirribilli called re OOHWA noise 12/4/2022 - Worker behaviour// Noise – Std Construction Hours - related to worker singing
CN-ISD
<p>There were no non-compliances/incidents reported to the ER. There were five complaints during the period relating to:</p> <ul style="list-style-type: none"> 6 April - Stakeholder called to express dissatisfaction with mobile crane parked outside premises at about 5:15am left idling and they could hear worker. Stakeholder has been contacted to inform them of the course of action and that corrective actions will be communicated with the relevant contractor. 8 April - Stakeholder called to express dissatisfaction with Stakeholder expressed overnight deliveries are waking her up during the night. Upon investigation, the stakeholder was informed that noise levels from the girder deliveries were within those approved. 12 April - Stakeholder informed that several of the same notification were placed in their letterbox. Project contacted stakeholder, discussed letterbox drop protocols and removed stakeholder from distribution list as requested. 14 April - Stakeholder approached traffic controller to discuss concerns on placement of traffic signage behind her place of work at 10-12 Clarke Street. Place Manager discussed TMP/Clarke Lane with traffic team and contacted stakeholder to inform them of ongoing investigation to improve signage. 29 April - Stakeholder expressed concerns with placement of fencing on Clarke Lane blocking access to fire exits. Upon investigation it was found that clearance from exits was only 0.6 m when it should have been 1 m and had not been relocated appropriately after crane use. Fencing moved back 1 metre from fire exits.

PS-ISD
<p>There were no non-compliances or incidents reported to the ER. There were two complaints during the period relating to noise.</p> <ul style="list-style-type: none"> 27 April - Stakeholder called about noise generated over the weekend which lasted about 5-10 minutes each night. As the ISD work sites had been closed during the period CPB comms consulted with Line wide. CPB comms contacted stakeholder and advised that Sydney Metro sites were closed during the long weekend. 29 April - Stakeholder called about alarm noise from the Pitt Street North site. Upon contact from the project the stakeholder providing a recording of the noise and the project consulted with team and traffic controllers at the Pitt Street North site. It was determined that the alarm sound came from hoarding works at the building across from the Pitt Street site. Project informed stakeholder of outcome of investigation and provided photos of works responsible.
WL-ISD
<p>There were no non-compliances reported to the ER this reporting period. There were no incidents related to site. There was a notification to the EPA and Council regarding green dye in stormwater, linked to complaint 3547 (04/04/22). Reported to EPA (Ref 0105300) and City of Sydney. EPA advised fluid is a vegetable based green dye to see if there are any blockages. S&CLM called resident and advised green fluid was not related to WISD.</p> <p>Complaints for March 2022:</p> <ul style="list-style-type: none"> 04/04/22 Complaint Water & soil management 3547 - Green fluid notification 13/04/22 Complaint Alternative Accommodation 3575 21/04/22 Complaint Noise OOH 3588 - Stakeholder complaining about noise from out-of-hours work 21/04/22 Complaint Noise OOH and Respite 3589 - Resident requesting double glazing due to noise impacts at night <p>OOH Noise and Alternative Accommodation complaints are few relative to amount of works being approved and undertaken in accordance with the OOHW Protocol</p>
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
MP-ISD
<ul style="list-style-type: none"> Nil
VC-ISD
<p>Core Focus Areas</p> <ul style="list-style-type: none"> Victoria Cross South – Ongoing OOH (night works) stormwater upgrade works on Miller Street (Mar –May 22), including contingency in case of inclement weather delays. Victoria Cross North site – OOH works extended for May- Jun 22 (evening/ weekend day OOH) - structural and fit-out works within the north shaft, with supporting activities at the north yard. Continue to review OOHW noise monitoring, any associated complaints and issues. <p>ER Closing Comments:</p> <p>Reduction in total number of Project related complaints received in April 2022 (2) in comparison with March 2022 (4 complaints). Overall, environmental performance is good. ER Inspection for the month identified generally minor actions. The Project continues to be responsive to queries/comments raised in document reviews and any recommendations made by the ER.</p>
CN-ISD
<ul style="list-style-type: none"> Significant out of hours planned to continue with emphasis on monitoring to validate CNVIS predictions. <p>ER Closing Comments:</p> <p>Project has performed generally well throughout the period with only minor actions identified during inspections. Complaints generally and noise complaints specifically remained stable, at low numbers.</p>
PS-ISD
<ul style="list-style-type: none"> Significant out of hours planned to continue. <p>ER Closing Comments:</p> <p>Project has performed well throughout the period, with frequency of complaints remaining low.</p>
WL-ISD
<ul style="list-style-type: none"> Significant out of hours planned to continue Monitor complaint numbers and issues. Contractors Community and Stakeholder Manager providing a greater amount of detail / follow-up to ER & AA now

6. 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			
Civil: <ul style="list-style-type: none"> Stormwater works, including sheet piling, trenching, pipe installation and backfill (on hold due to rain) Backfilling and compaction on top of waterproofed station box Stockpiling of imported tunnel spoil from Rozelle Interchange Stockpiling and management of asbestos contaminated spoil Water Treatment Plant (WTP) operation Out of Hours (AOOH) Utility works on Hickson Road. Station Box: <ul style="list-style-type: none"> Installing structural steel, concrete and blockwork Deliveries to the northern shaft Overhead Track Exhaust (OTE) ongoing Preparation for handover of Level B6 and the Northern Shaft to Metro (for Line Wide) Escalator installation (B5-B3). 			
Key Construction Activities Look Ahead			
<ul style="list-style-type: none"> Continue sheet piling and excavation for stormwater trunk relocation Blockwork and services installation to continue in the station box, station fit-out works OOH-006 Services installation (utilities) continuing on Hickson Road Preparation for demolition of Hickson Road and road switch Station fit out works – doors, painting services rooms etc Escalator installation (B5-B3) Trenching and tree removal at Nawi Cove for the seawater cooling system works. 			
Summary of Environmental Performance			
<p>Works have been disrupted due to the series of significant rainfall events experienced over the last few months. The rain has increased environmental risk (due to the location of the site adjacent to Sydney Harbour) and resulted in an increase in the number of environmental issues to be managed. The Water Treatment Plant (WTP) is currently handling the volume of water required for treatment and a detailed monthly and quarterly water monitoring program has been designed and is being implemented (though not required by the planning approval or Staging Report). Exceedances in water quality objectives (groundwater and discharge water) identified in the Q1 2022 WQ Monitoring event are currently being investigated.</p> <p>The process involved with the import of tunnelling spoil from the Rozelle Interchange has been assessed and all relevant documentation was able to be verified and the process found to be compliant.</p> <p>An assessment of compliance with archaeological heritage requirements has also been undertaken and the process was found to be managed well. An archaeologist has been present during excavation in all medium to high risk areas (as identified in the Construction Heritage Management Plan (CHMP)) and works have been conducted in accordance with the Archaeological Method Statement (AMS).</p> <p>Compliance with waste classification and management practices, including following the Unexpected Finds Protocol is currently being explored.</p>			
ER Inspections			
<p>There was one ER inspections conducted by the ER in April 2022 (28/04/2022). The key issues raised at the inspections were:</p> <ul style="list-style-type: none"> Discussion of proposed OOH service installation works on top of the station box / temporary Hickson Road Potential issues with water management between Linewide and BESIX Watpac sites / interface between PCs during future handover Water discharge issues need to be resolved soon to allow the completion of the stormwater trunk relocation scope Landowner (INSW) consent for proposed seawater cooling system scope Consistency assessment for the use of additional land on the western side of the site / extension of site boundary for pipe investigation works Tidy up of the site including ERSED controls around stockpiles and scraping up of mud from the hardstand surface across the site 			

Photos



Stockpiled spoil was overtopping coir logs in some locations



A layer of mud had built up across the hardstand, increasing the risk of sediment-laden runoff and tracking offsite



Stormwater installation works ongoing; partial backfill after archaeological monitoring



A consistency assessment is being drafted for the use of this additional land (refer previous action ACT0008373).



Controls were in place around the base of the Rozelle interchange tunnelling spoil stockpile.

Endorsed Document/s

- Nil

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 was one non-compliance reported to the ER for Barangaroo Station for the period:

- The construction site hoarding at Barangaroo Station site was extended to cover an additional area at the harbour foreshore without a Consistency Assessment approval in place. Landowner's consent from Infrastructure NSW for the use of this area was provided on 17 February 2022, prior to works commencing.

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

The ER is aware of six complaints received during March 2022 related to the BESIX Watpac works:

- 1/4/2022: Complaint regarding out of hours utility works. Resident thinks Hickson Road closure could be earlier. Works approved under OOHWA-006 and monitoring within predicted levels.
- 5/4/2022: Bolts protruding from speed hump on Hickson Road, potential for car damage. Bolts were removed.

More complaints are anticipated once the demolition of Hickson Road commences in late early May.

Respite has been offered in the form of 2Hrs daytime respite, and no noisy works after midnight during OOH. OOH works are also scheduled so works are not conducted in the same location for more than two consecutive nights. Alternative Accommodation has not been triggered, though is available to be offered if required on a case-by-case basis.

Audits

An Independent Audit is scheduled for 11th May 2022, which will be attended by the ER.

Looking Forward – Core Focus Areas

- The management of water in the deep excavation for the stormwater trunk main
- Compliance with water quality parameters in the Water Discharge Impact Assessment (WDIA) during discharge from the Water Treatment Plant
- Management of noise during planned out of hours work, and during standard construction hours, particularly in relation to demolition of the bridge deck, then Hickson Road. Management of potential noise cumulative impacts. Noise modelling for next scope of noisy works (demolition of Hickson Road)
- Investigations and predictions for vibration prior to demolition works in the vicinity of the heritage-listed Hickson Road wall
- Fuel and chemical storage and waste management
- Consistency assessments, landowner consent and tree management for planned seawater cooling water installation
- The transfer of water from Line Wide to BESIX Watpac site
- The ongoing management of groundwater from the station box and Northern Shaft, Level B6 after handover to Line Wide
- The management of works in zones with high-moderate archaeological potential and the reporting of finds.
- The management, storage and disposal of asbestos-contaminated spoil
- Completion of the CTR Q4 2021

7. Sydenham to Bankstown Sydney Metro Corridor (SMC) and Bankstown Early Works (BEW)

Project Approval	Contract Package	EPL	Environmental Representative/s
SSI 8256 (S2B)	Sydenham to Bankstown Sydney Metro Corridor (SMC) and Bankstown Early Works (BEW)	#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"> Canterbury Compound: Site offices and amenities, fuel and gas storage. Ewart Street, Hurlstone Park: Drain and drainage protection works complete. Planned works for new hi-rail access and gate. Melford Street Bridge, Hurlstone Park: Preparation for handover to Linewide. Wairoa Street Bridge, Campsie: Pile cap on city side of Wairoa Street complete. Embankment works under the bridge complete. Country-side pile cap and crash beam to be installed. Swale to be reestablished on country side of Wairoa Street. Duke Street, Campsie: Works on hold pending Traffic Plan approval. Belmore Triangle, Redman Parade: Dewatering of Pit 5 underway. Stockpile and slurry storage. Wiley Park, Urunga Parade, Gate WP3: GST installation, vegetation protection for identified TEC. Punchbowl Hi-rail access: Construction of the new access to the hi-rail access pad ongoing. <p>Bankstown Early Works (BEW):</p> <ul style="list-style-type: none"> North Terrace Compound: Site offices and amenities. Metro Services Building (MSB): Building construction ongoing. Southern Down Platform: Minimal works due to RDO. Canopy installation scheduled for WE45. Stacey Street Bridge (Country-side, Bankstown): GST defects work. Preparation for handover to Linewide in early April. 			
Key Construction Activities Look Ahead			
<p>Out of Hours Work:</p> <ul style="list-style-type: none"> WE 45 (7 & 8 May 2022): <ul style="list-style-type: none"> JHLOR confirming scope, noting isolations will likely be provided. BAC early works – ground investigations. <p>Other:</p> <ul style="list-style-type: none"> Marrickville: Piling for crash beams and RW1A & RW3, works within AMZ at Victoria Road Bridge (on hold pending flood design). WE45 investigation works. Dulwich Hill: Access for piled abutments (UP) during an ARTC possession (WE 45) and coordinated with Ausgrid. Hi-rail pad and access prep works incl ERSED works. Hurlstone Park: Installation of throw screens (Church Street footbridge). Replacement of redundant troughing during the next possession (Melford Street bridge). Canterbury: Piling works planned during WE45 as part of segregation fence works. Campsie: Removal of Quenos gas pipe; GST installation at Lillian Lane and Loch Street ongoing. Wairoa Street crash beam works. Belmore: GST installation on the country-side of Moreton Street Bridge adjacent to TEC, continuing toward Lakemba Station. Belmore triangle: Water discharge from Pit 5 / 9 ongoing. Lakemba: GST installation. Wiley Park: GST to continue in WE45 (section closest to track). Ongoing. Punchbowl: CSR installation; HV pit 22 rectification. ULX and GST transition. Bankstown: Stacey Street bridge screens over next possessions; Investigation works planned for WE45 (via BAC). <p>BEW:</p> <ul style="list-style-type: none"> Ongoing construction of the MSB. WE45 canopy installation including x2 cranes. Cable pulling and utility installation. 			
Summary of Environmental Performance			
<p>The project has performed well during the reporting period, which is consistent with JHLOR's performance for the duration of works. Innovative solutions have been devised to manage environmental issues that have arisen, e.g. the dewatering of high-voltage pits at the Belmore Triangle, and solutions to ERSED issues in sensitive areas such as Melford Street Hurlstone Park and Ewart Street Dulwich Hill.</p>			

Planned works have been identified in areas mapped as Threatened Ecological Communities (TECs) and a Consistency Assessment is being prepared to reflect the change in impact after ground truthing was conducted. All TEC areas inspected during ER walks have been appropriately barricaded and sign-posted and workers tool-boxed at pre-start as required. Some issues have been raised in relation to unapproved damage to vegetation, with evidence of actions raised and closed-out provided to the ER.

ER Inspections

There was one ER inspection conducted by the ER in April 2022 (19/04/2022). There were no actions raised during the inspection.

Photos



Ewart Street, Dulwich Hill: Establishment and improvement of ERSED controls



Wairoa Street, Campsie: Crash beam installation and under bridge stabilisation works



Belmore Triangle, Redman Parade: Vacuum truck slurry storage (to be disposed offsite as liquid waste), and dewatering of Pits 5 & 9 to land under a water monitoring program



Wiley Park, Gate WP3: GST installation in close vicinity of mapped Threatened Ecological Community (TEC)



BEW – MSB Site: Construction of the MSB and Southern platform

Endorsed Document/s

■ Nil

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 SMC & BEW.

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

There were no incidents for SMC_BEW reported to the ER under conditions A41 of SSI 7400.

There were four Class 3 environmental incidents reported to the ER during the period:

- SMC-INC-017 (22/4/2022): Approximately 150L of Soil binder (non-toxic) was spilt on the city side of Punchbowl during plant maintenance. The binder did not leave site and did not enter stormwater system. It was immediately cleaned up and disposed off.
- SMC-INC-018 (22/4/2022): Close-out of ongoing investigation (commenced in January 2022) in relation to potential damage within a TEC at Moreton Street, Belmore. Minimal impact occurred and was assessed by an ecologist to have a *“non-significant negligible impact on the TEC vegetation present”*.
- SMC-INC-019 (22/4/2022): Issue raised on 22/3/2022. Parking at Bankstown Bus overflow area used by project vehicles Not permitted by CTMP or bus operator.
- SMC-INC-020 (29/4/2022): During GST installation at Punchbowl country-side a number of wattles were damaged by a plant operator. The trees remain viable, and will need to be pruned.

The ER is aware of one complaint received during April 2022 related to the SMC_BEW works:

- 5/4/2022: Night-time construction noise at Bankstown Station. Notification was conducted and AA offered. Stakeholder did not see the notification but accepted the offer for the next nights' AA.

Audits

No ER involvement in audit activity including Independent Environmental Audits.

Looking Forward – Core Focus Areas

- Management of ERSED controls generally
- Maintenance of tree protection measures, particularly in the vicinity of TECs and threatened species *Acacia pubescens*
- Implementation of the Tree Report during vegetation pruning and removal
- Management of noise during OOHs, e.g. WE45 and the Mid-Year Shutdown

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

Project Approval	Contract Package	Environmental Representative/s
SSI 8256 (S2B)	Marrickville, Canterbury & Lakemba Station Upgrades (MCL) (HSEJV)	Brett McLennan
Key Construction Activities During the Period		
<p>Marrickville:</p> <ul style="list-style-type: none"> Station building electrical fit out continued. MSB fit out commenced. MSB - ULX launch pit excavations completed and backfilling with DGB commenced. Dewatering of the ULX launch pit commenced. <p>Canterbury:</p> <ul style="list-style-type: none"> MSB – Construction of structural concrete supports and excavations of OSD continued. Station building electrical fit out continued. <p>Lakemba:</p> <ul style="list-style-type: none"> MSB – service connections and formwork installation continued, concrete pours for strip footing retaining wall commenced. GST works continued. Service installation works in the platform buildings continued. 		
Key Construction Activities Look Ahead		
<ul style="list-style-type: none"> WE 45 possession – High impact noise mitigation monitoring. It is noted that permits have been provided and construction works would be significantly busier than recent possessions. OOHWA's have been assessed and mitigation proposed. Continuation of construction of the MSB's at all stations. Demolition and reconstruction of Canterbury Stairs, and installation of lifts. ULX Marrickville. Planning for two-week shutdown (Shutdown 3) in July. 		
ER Inspections		
<p>There were two ER inspections on 06/04/2022 and 21/04/2022. The key issues raised at the inspections were:</p> <p>All Stations:</p> <ul style="list-style-type: none"> It was noted that site documentation (ECP and ESC) on display was out of date and required updating. <p>Marrickville:</p> <ul style="list-style-type: none"> It was noted that groundwater discharge was to the Sydney Trains Cess in compliance with the GWMP. Notifications to Sydney Trains and SSJ (PC for the area) was pending. The groundwater discharge may have contributed to water pooling at the site and is under investigation as a potential NCR. <p>Lakemba:</p> <ul style="list-style-type: none"> It was noted that a truck had parked across two accessible car spaces. This was raised as an NCR. It was noted that site barriers had been placed onto Railway Parade prior to approval of a Consistency Assessment and ROP was not provided on request. This was raised as an NCR. It was noted that adequate ESC was not in place during the start of a rainfall event, with sediment laden water exiting the site. Due to increased rainfall, material harm was not able to be determined. This was raised as an NCR. Compliance with approved compounds, consistency assessments and compliance with conditions was discussed in detail with the contractor and proponent. This included impacts from requests for car park removal, timing of works and community notifications. The ER requested several times for ROL/ROP and standing plant permits to be provided throughout the previous two months. As the permits were not supplied it was raised as an NCR. 		

Photos


Marrickville ULX pit excavation –21/04/22



Marrickville MSB – 21/04/22



Canterbury MSB – 21/04/22



Canterbury MSB structural support installation – 06/04/22



Lakemba Railway Pde compound and MSB at commencement of rain event - 06/04/22



Lakemba – MSB water barriers and pressure cleaner outside approved boundary – 06/04/22

Endorsed Document/s

- Minor update of Lakemba Railway Pde Compound A17 approval.

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 MCL.

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

The NCRs were related to the activities raised for Lakemba during the ER inspections as follows:



- Truck blocking access to accessible carparks
- Water filled barriers and water pump outside approved boundary
- Erosion and sediment controls not installed appropriately
- Working without permits

The complaints are summarised as follows:

- Property damage complaints (one at Marrickville and one at Lakemba). Property damage was investigated and found to be not related to Sydney Metro works.

There was one incident for MCL reported to the ER under conditions A36 of SSI 8256, for potential material harm from sediment laden water at Lakemba, which was later withdrawn.

Audits

- No ER involvement in audit activity including Independent Environmental Audits

ER Closing Comments and Looking Forward – Core Focus Areas

The works are experiencing continued delays due to rainfall events and access to external permits. Staff turnover has occurred at Lakemba and the requirements of the Conditions of Approval are not particularly well understood by new staff. Due to previous NCR's and ER actions for works within approved areas, the ER conducted several meetings with Sydney Metro and HSEJV and recommended that training on the CSSI and approvals be provided.

A reduction of ER actions at the Marrickville and Canterbury sites was noted. Construction fatigue is an ongoing issue. Environmental performance overall is generally good, with some site-based improvements at Lakemba.

Looking forward:

- Continued implementation checks for CEMP and sub plans, focusing on ESC and parking / traffic impacts.
- WE45 inspection, focusing on noise mitigation, working within approved boundary and worker behaviour.
- Review and endorse Sub-plans.
- Compliance Tracking Q3/Q4 review and endorsement.
- Shutdown 3 review and endorsement.
- Internal audit of contamination management.
- Internal audit of work approvals compliance.

9. 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		
<p><u>Hurlstone Park</u></p> <ul style="list-style-type: none"> MSB – CTR excavations, formwork and concrete pours for blinding slab in the MSB commenced. GST installation continued. Concourse and platform building refurbishing works continued. <p><u>Belmore</u></p> <ul style="list-style-type: none"> MSB- fit out works continued. GST and OSD construction continued. Platform building refurbishing works continued. <p><u>Wiley Park</u></p> <ul style="list-style-type: none"> MSB –MSB construction continued. Platform building refurbishing works continued. Elevator commissioning trials commenced. <p><u>Dulwich Hill:</u></p> <ul style="list-style-type: none"> MSB – No works noted during the month pending permits. <p><u>Campsie:</u></p> <ul style="list-style-type: none"> MSB – Construction on hold pending permits. CSR route works continued. Concourse installation works continued. Platforms – Station fit out continued. <p><u>Punchbowl:</u></p> <ul style="list-style-type: none"> Works between Urunga and MSB gate, service and drainage works completed MSB – Fit out continued. Concourse installation works continued. Platforms – Station fit out continued. 		
Key Construction Activities Look Ahead		
<ul style="list-style-type: none"> WE 45 possession – High impact noise mitigation monitoring. It is noted that permits have been provided and construction works would be significantly busier than recent possessions. OOHWA's have been assessed and mitigation proposed Construction / fit-out of the MSB's at all stations. Construction of the pedestrian bridge, lift shaft, and stairs at Dulwich Hill. Demolition and reconstruction of stairs, and construction of lift shafts at Hurlstone Park. Landscaping for station Plaza(s) and MSB areas. Review and endorse Shutdown 3. Internal audit of management plans and work approvals compliance. 		

ER Inspections

There were two ER inspections conducted for HBW and DCP on 13/04/2022 and 27/04/22. And additional inspection of Hurlstone Park was undertaken on 21/04/22 to inspect CTR works.

The key issues raised at these inspections were:

Hurlstone Park

- It was discussed that ESC protection would be reinstated in work zones prior to an upcoming rain event.
- It was noted that noise mitigation (noise blankets and 2 hours construction with 1 hour respite) and equipment choice (20t excavator with silenced hammer) for the CSR hammering was reasonable. It was discussed if community communication was suitable for the works, noting that the monthly notifications were not specific to the timing of the works. It was also noted that the works commenced during school holidays, which was likely to have a greater impact on stakeholders with children. The ER recommended that specific notifications would be more appropriate for high impact works and recommended that additional mitigation measures be implemented such as respite offers or alternate accommodation.
- The NDD investigations and impacts on tree roots was discussed with Downer and Sydney Metro. It is noted that arborist reports are pending issue.

Belmore

- Reinstatement of a tree protection zone was required in the construction compound.

Wiley Park

- Minor ESC maintenance was required in the MSB.
- The location of a brick cutter near receivers was discussed and the cutter moved to a more suitable location.

Dulwich Hill

- Minor ESC maintenance and clean-up of minor sand from overtopped controls after a rain event was required at Ewart Lane.
- Maintenance of potholes on Ewart Lane adjacent to the lower MSB gate was required.

Campsie:

- No issues raised.

Punchbowl:

- Minor ESC maintenance and clean-up of minor tracking was required from the MSB and compound.

Photos



Hurlstone Park CTR works 21.04.22 and 27.04.22



Wiley Park MSB works noting brickworks almost completed 27.04.22.



Belmore MSB showing GST and OSD installation
13.04.22



Punchbowl MSB 27.04.22



Campsie Concourse 27.04.22



Dulwich Hill MSB minor sediment and potholes requiring
maintenance 27.04.22

Endorsed Document/s

- Hurlstone Park MAF (A19).
- Wiley Park MAF relocation (A19).
- Concreting works overrun at Hurlstone Park MSB.

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 HBW.

The ER is aware of two new non-compliances raised in April, and nine complaints for DCP/HBW related to Downer's work for the period

Non-Compliances

NCR 021 – Wiley Park MAF setup without approval.

NCR 022 – Dulwich Hill (Bedford Crescent) Standing Plant Order Lapsed

Complaints:

The complaints are summarised as follows:

Belmore

- One complaint relating to worker behaviour driving and using a mobile phone.

Hurlstone Park

- One complaint relating to worker behaviour (smoking).
- One complaint relating to odour and visual appearance of amenities block.
- Four complaints relating to noise and vibration from CTR installation



- Two complaints on design and work notifications.

There was one incidents for HBW reported to the ER under conditions A36 of SSI 8256, for potential damage of tree roots at Hurlstone Park, which was later withdrawn.

Audits

No ER involvement in audit activity including Independent Environmental Audits (IEA Program).

ER Closing Comments and Looking Forward – Core Focus Areas

Works were generally slow during the month due to continued delays due to rainfall events and access to external permits. It was noted a reduction of ER actions are generally minor in nature for Downer, however construction fatigue is an ongoing issue for the community. Discussions were undertaken with Downer and Sydney Metro regarding notification of works, in particular specific notifications for high impact work and work scheduling.

Looking forward:

- Continued implementation checks for CEMP and sub plans, focusing on ESC and community impacts.
- Review and endorse CEMP Sub-plans.
- Compliance Tracking Q1 2022 review and endorsement.
- OOHW and Shutdown 3 review and endorsements.

10. 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	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	▪ The ER has been provided with the Overarching Community Communications strategy for review and updated endorsement. The changes proposed are: <ul style="list-style-type: none">○ Change to the frequency of review of the document. As this document hasn't required any substantive change for some time now the ER supports this approach.○ Change of name from DPIE to DPE.	
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. There were no non compliances or incidents raised by the ER against Sydney Metro for the period.		
Audits		
SM	Nil	
Looking Forward – Core Focus Areas		
SM	▪ Review of minor changes proposed to the Compliance Tracking Monitoring and Reporting Program	

11. 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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