

Mr Rob Sherry
Team Leader Compliance – Government Projects
Department of Planning Industry and Environment
Locked Bag 5022
PARRAMATTA NSW 2124

7 September 2020
Ref: 170108-ER_DPIE-AUG-20

Dear Rob

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for August 2020

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), and MOD7_ Administrative Changes (29 June 2020); and
- Condition A26(j) of the Sydney Metro Sydenham to Bankstown Upgrade SSI_8256 Approval (12 December 2018).

The attached summaries detail the key activities undertaken by Environmental Representatives for Sydney Metro – City and South West Chatswood to Sydenham for the following work packages for the month of **August 2020**.

- Tunnel and Station Excavation (TSE)
- Central Station (CSMW)
- Sydenham Station and Junction (SSJ),
- Line Wide (LWW)
- Train Service Operation and Maintenance (TSOM)
- Integrated Station Developments (ISDs)
- Sydenham to Bankstown (S2B) Enabling Works (SMEW)
- Relevant Sydney Metro Retained Obligations and Activity

Yours sincerely

Jo Robertson
Environmental Representative

Cc:

Sydney Metro: Carolyn Riley, Fil Cerone, Ben Armstrong, Hugh Chapman, Pam Tummers, Simon Fisher, Andrew Hendy, Tim Solomon
Ann Paterson, Julia Diamond, Chris Berg
Contractors: Rob Muir (TSE), Jason Ambler (MPISD and VCISD), Sally Reynolds (WLISD), Andrew Zvirzdinas (Pitt St ISD)
DPIE: Elizabeth Williamson, Matthew Todd-Jones, Erica Van Den Honert
cc. IEA: Larry Weiss, Julie Dickson



Summary of Contract Packages	Environmental Representative/s
Tunnel and Station Excavation (TSE)	Michael Woolley
Key Construction Activities	
TSE	<p>Chatswood site:</p> <ul style="list-style-type: none"> ▪ Works in the dive continued including steel fixing and concrete pours ▪ Water treatment plant (WTP and night spoil shed, handed over to Line Wide contractors 1-8-20). ▪ Ongoing works in the northern corridor and dive area including excavation; drainage; slab preparation and wall support ▪ Installation of pre-cast beams to roof of the dive using a very large crane. Construction of Nelson Street Cul-de-sac <p>Victoria Cross North site:</p> <ul style="list-style-type: none"> ▪ Ongoing access for concrete pouring of adit lining ▪ WTP decommissioned and transported to Barangaroo with silo's still to be transported <p>Victoria Cross South site:</p> <ul style="list-style-type: none"> ▪ Ongoing excavation and rock hammering of the shaft using multiple excavators ▪ Stockpiling spoil on site and load out of spoil onto trucks on Denison Street ▪ Lining (FRP) of pedestrian adits ▪ Tree removal <p>Blues Point site:</p> <ul style="list-style-type: none"> ▪ Preparation for lining of floor and around tunnels ▪ Water from site collected in sumps and pumped to shaft for treatment at Barangaroo <p>Barangaroo Station:</p> <ul style="list-style-type: none"> ▪ Ongoing operation of the existing water treatment plant ▪ Ongoing FRP for slabs and walls in the station box and sharks' fin ▪ Laydown areas for steel and equipment ▪ Construction/installation of WTP from Victoria Cross North <p>Martin Place Station-South:</p> <ul style="list-style-type: none"> ▪ Ongoing lining of pedestrian adit, ESR shaft and other adits ▪ Completion of excavation of shaft in southern portion of site ▪ Formwork being assembled and put in place for pour of lining ▪ Excavation of rock in the vicinity of the former tower crane <p>Pitt Street North:</p> <ul style="list-style-type: none"> ▪ Ongoing excavation of sandstone and installation of wall support ▪ Spoil movement through Pitt Street South due to Bligh street access temporarily closed due to tunnel lining works <p>Pitt Street South:</p> <ul style="list-style-type: none"> ▪ Excavation of sandstone mostly complete ▪ Construction of blinding layers ▪ Loading out of spoil from Pitt Street North ▪ Lining of adits to the shaft <p>Marrickville dive site:</p> <ul style="list-style-type: none"> ▪ Construction of slabs over Dive complete ▪ Ongoing Transgrid works ▪ WTP operational ▪ Local Area Utility Works around site on Edinburgh Street and Railway Parade ongoing with stormwater pipes and pits installed ▪ WTP operational with newly installed bunding around the filter press and on boundary with Linewide area ▪ Piling works along road to Railway Parade <p>Marrickville stabling yard</p> <ul style="list-style-type: none"> ▪ Backfilling of soil above placed culverts ▪ Works within the culvert near Sydney Steel Road Bridge ongoing. Water from existing culverts now diverted to new culverts and sections of old culverts removed for construction of new culverts ▪ Stockpiling of soils to be removed



	<ul style="list-style-type: none"> ▪ Importation of spoil for backfill ▪ Ongoing excavation of other areas for culvert construction and slab construction ▪ Completion of the connection to SSJ works with stormwater now directed to SSJ's constructed viaduct ▪ Removal of soils to clear contaminated soils at the southern portion of the site
ER Inspections	
TSE	<p>There were four ER inspections carried out during the month. Issues identified during the inspections included:</p> <ul style="list-style-type: none"> ▪ Marrickville Dive: The stormwater drain near Railway Parade entrance could not be identified ▪ Marrickville Dive: Install sediment controls along interface boundary with Linewide down slope from water treatment plant. Ensure area is cleaned of silt and dirt on the hardstand ▪ Marrickville Dive: Maintenance of sediment controls on the bridge above the culvert ▪ Marrickville Stabling Yard: Some sediment staining was observed on the footpath on Sydney Steel Road having come from the site. The sediment fence on site was in need of maintenance and in places repair. JHCPBG to ensure controls are adequate along this boundary ▪ Barangaroo: An IBC containing acid was observed without secondary containment ▪ Victoria Cross North: In the process of removing the WTP, some chemicals in IBCs were being stored outside without secondary containment ▪ Victoria Cross South: Some minor dust was being generated in the SW corner of the site during rock hammering activities. JHCPBG stopped the works at the time and advised after the inspection, that the misting cannon was repositioned to provide additional dust suppression to the works <p>The large, open disturbed areas at Marrickville Stabling Yard continue to represent challenges in ERSED management and as conditions change ERSED controls will need to change. Various notes were made in the inspection reports reflecting commitments made by the TSE Contractors and risks identified during inspections. ER Inspection reports have been prepared and issued to Sydney Metro and the TSE Contractor.</p>
Endorsed Document/s	
TSE	<ul style="list-style-type: none"> ▪ VCS and VCN SEP Rev 5 ▪ CTR 2020 Q1 TSE ▪ Site Environment Plan (SEP) Chatswood Rev 8 covering Linewide contractor on site ▪ Marrickville SEP Rev 7 ▪ Chatswood SEP Rev 9 ▪ Close out of Conditions for Clyde Barging Facility REF.
Complaints / Incidents / Non-compliance	
TSE	<p>It is understood that Sydney Metro has been providing summaries of complaints to DPIE daily. Responses to each complaint have been noted in each complaint report provided to the ER, with follow up actions often defined in revised reports.</p> <p>Two minor hydrocarbon spills that were contained on site were reported by JHCPBG to have occurred during the period.</p> <p>JHCPBG reported that vibration monitor located in the basement carpark at 105 Miller Street registered an exceedance of the vibration criteria at 3.30pm on 14 August with a maximum level of 7.9mm/s. Upon receiving the alert works were ceased and a review of the work practices was undertaken. JHCPBG reported that works recommenced with no further exceedances recorded.</p> <p>There were no incidents reported by JHCPBG as defined by the project approval definition for incidents under condition A41.</p>
Audits (specific to packages reported in this report)	
Nil	
Looking Forward – Core Focus Areas	
TSE	<ul style="list-style-type: none"> ▪ Water and ERSED management at the Marrickville stabling yard generally and specifically at the interfaces with live culverts ▪ Noise and vibration impacts at Victoria Cross South during excavation activities ▪ Tracking of dirt onto roads at sites with disturbed ground ▪ Landscaping works soon to start on wharf areas at Barangaroo



Summary of Contract Packages		Environmental Representative/s
Central Station		Michael Woolley
Key Construction Activities		
Central Station	<ul style="list-style-type: none"> ▪ Metro Box - Truck movements; spoil excavation; metro box ventilation using scrubbers. Ongoing excavation and construction activities. Steel fixing and concrete pours in lower sections. Use of Metro Box for storing concourse canopy prior to installation ▪ Central Walk – Works on various platforms removing concrete slabs and installing new concrete; excavating for Central Walk, shotcreting, loading out of excavated materials and installing new concrete beams underneath suburban Platforms 16-23 (24/7); Excavating within hoarded work zones on suburban Platforms 16-23 and platform surface excavation during rail possession weekends ▪ Sydney Yard - Water Treatment Plant Operation; truck access; laydown. Stockpiling, processing and loadout of excavated material from other areas of site such as Eastern Entrance ▪ Northern Concourse - Excavating, concreting, installing steel posts, props and demolition within hoardings on upper and lower Northern Concourse.; Installation of new steel roof sections during weekend possessions.; Ongoing construction of new escalators ▪ Eastern Entrance: Excavating, loading out of excavated materials, concreting, lifting and installing ground support; Installing canopy tubes (horizontal piles) and wall support below Chalmers Street ▪ CSR works: Rail Institute - Installing sheet piles using vibratory attachment on an excavator at the new compound set up near station entrance at Chalmers Street. Excavation in area commenced ▪ CSR works: Mortuary Station - Small compound remaining inside an ATF fence for laydown/equipment storage. Cable pulling is main activity in the area remaining ▪ ESR Concourse - Temporary walkway installed and in use by pedestrians 	
ER Inspections		
Central Station	<p>There were two ER inspections conducted in August 2020 . The key issues raised at these inspections were:</p> <ul style="list-style-type: none"> ▪ Silt/slurry had accumulated adjacent the Water Treatment Plant ▪ A bunded pallet was full of water from recent rain and should be emptied to retain capacity ▪ It was agreed LOR were to investigate an exceedance of predicted noise levels from works on Platform 23 during the possession on 22 August to determine appropriate actions; and whether additional mitigation measures should be applied to future similar works 	
Endorsed Document/s		
Central Station	<ul style="list-style-type: none"> ▪ Air Quality Management Plan – Revisions as part of an Annual Review ▪ Visual Amenity Management Plan – Revisions as part of an Annual Review 	
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>		
Central Station	<p>Complaint aspects for this site during the period have been provided to DPIE and included complaints relating to daytime and night time noise from various activities.</p> <p>LOR reported that on 24 August while drilling to install new water monitoring bores, a redundant HV cable was hit. This required Ausgrid to conduct remedial emergency works to remediate. One complaint was received relating to these works conducted by Ausgrid.</p> <p>As noted above, at 6:45 am on 22 August an exceedance of predicted noise levels occurred during saw cutting works on platform 23. LOR are to investigate this exceedance to minimise the risk of further exceedance. It is noted Platform 23 is closest to adjacent residents and the same activity on Platform 22 was within predicted levels.</p> <p>There were no incidents for Central reported to the ER under conditions A41 to A44 of SSI 7400.</p>	
Audits		
Central Station	<p>No audits conducted within the reporting period.</p>	
Looking Forward – Core Focus Areas		
Central Station	<ul style="list-style-type: none"> ▪ Noise and vibration management during works on platforms during possessions and generally at the Eastern Entrance during excavation ▪ Construction of the canopies at the Northern Concourse ▪ Ongoing operation of the Water Treatment Plant 	



Summary of Contract Packages		Environmental Representative/s
Sydenham Station and Junction (SSJ)		Jo Heltborg
Key Construction Activities		
SSJ	<ul style="list-style-type: none"> ▪ Geotechnical Area – Retaining wall construction and service installation; building refurbishment. ▪ Burrows Ave – Construction of the waste building on Platform 6. Station works including Installation of lift canopy cladding and handrails and preparation for lane closure and crane lifts during possessions ▪ Bolton St / Hogan Ave – Preparation for excavation for Drainage Line 50 and gas main from Sydenham triangle. Groundwater investigations ongoing for underbore from Sydenham triangle ▪ Platforms 1, 2 & 3 –Headstocks complete and aerial pedestrian concourse lifted into place by 450T crane. Re-fit of heritage station building on Platform 2/3 ongoing ▪ Sydenham Rd triangle area – Cutover of eastern Culverts 1 and 2 to the existing system complete. Ongoing works for future cutover of western Culverts 3 and 4 ▪ 11 Sydenham Rd - Backfilling of precast culverts continuing. Excavation and construction of weir continued; significant spoil movement and stockpiling. Services installation. ▪ Sydenham Pit and Pumping Station – Reinstatement of open central drainage channel in Sydenham Pit complete ▪ Confluence Structure & Temporary Upstream Connection – Construction of the confluence structure complete and in service; external completion works ongoing. Bulkhead in place along western channel and temporary bypass live ▪ Way Street Laydown – Equipment Storage ▪ XPT Laydown – Stockpiling and vacuum truck slurry storage ▪ Bedwin Rd – Excavation for installation of drainage slab and drainage along the rail corridor 	
ER Inspections		
SSJ	<p>There were two inspections conducted by the ER in August 2020. The key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Stockpile management including the application of soil binder and the maintenance of ERSED controls and water management at 11 Sydenham Rd and the XPT Laydown ▪ Inappropriate concrete washout ▪ Improvements to the management of vacuum truck slurry at the XPT Laydown; post-incident investigation (overspill of slurry, 11 July 2020) ▪ Installation and maintenance of tree protection measures at the Way Street Laydown ▪ Hazardous chemical storage ▪ Correct storage of heritage items 	
Endorsed Document/s		
SSJ	<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>		
SSJ	<p>There were no incidents for SSJ reported to the ER under conditions A41 to A44 of SSI 7400.</p> <p>There were two Class 3 environmental incidents reported during August 2020:</p> <ol style="list-style-type: none"> 1. 5/8/20: A subcontractor van leaked a small volume of diesel onto the ground of an internal haul road at Bedwin Road. Geofabric and black plastic was placed underneath the vehicle to prevent more spill to ground. The Environmental Co-ordinator was contacted and a spill kit used and a mechanic employed to assess cause of damage. Once vehicle is safely removed from site, clean-up of material directly under the vehicle will be completed at this time. 2. 7/8/20: A street sweeper was observed to be discharging water into Sydenham Pit from the new ramp on a Friday afternoon (15:00). The JHLOR Environment Manager attended site and observed about 200-300mm of water in the pit. Water sampling for turbidity was conducted at the ramp and at a reference location, which found there was no evident change to water quality as a result of the release. <p>The following Monday, the Area Supervisor was questioned about the event. He relayed the following information;</p> <ul style="list-style-type: none"> ▪ The vacuum truck had turned up to site and as it had been raining throughout the day there were minimal works occurring 	



	<ul style="list-style-type: none"> ▪ A Sydney Water water main on Garden Street had been leaking for a while. Rainwater running down the kerb in Garden Street was combining with the leak ▪ The street sweeper decided to vacuum up this water ▪ Works had finished for the day. The Street Sweeper had a small amount of liquid stored within the holding tank from the puddle. ▪ The Street Sweeper operator contacted the Supervisor about releasing the captured water as he believed it was clean ▪ The Area Supervisor agreed that the water could be released into the pit. He believed this was appropriate on the basis that water within the kerb on Garden Street, enters a downstream stormwater drain that conveys water to the pit <p>The Environment Team was not consulted prior to the discharge occurring, and the water was not tested in accordance with the Sydney Metro water discharge procedure. Actions to brief supervisors on discharge requirements, including the street sweeper operator, remain open. A non compliance will be recorded in the Quarterly compliance tracking program for breach of a hold point under the CEMP. There were no complaints received for SSJ during August 2020.</p>
Audits	
SSJ	Nil
Looking Forward – Core Focus Areas	
SSJ	<ul style="list-style-type: none"> ▪ The potential to encounter groundwater during excavations for an under bore from the Sydenham Rd triangle to Hogan Ave & Sydenham Rd ▪ Channel diversion works at the SSJ/TSE interface during culvert tie-in works at the Sydenham triangle ▪ Management of ERSED controls generally, including stockpile management at 11 Sydenham Rd ▪ Completion of station structures and noise impacts during OOHW and possessions ▪ Implementation of the tree replacement strategy



Summary of Contract Packages		Environmental Representative/s
Line Wide (Tallowong to Bankstown)		Peter Hatton / George Kollias
Key Construction Activities		
Line Wide	<p>SMTF (North)</p> <ul style="list-style-type: none"> ▪ Water monitoring prior to discharge ▪ Inter track drainage ▪ Overhead wiring installation ▪ Ongoing service building installation works <p>Northern Connection</p> <ul style="list-style-type: none"> ▪ Track construction for access to alignment final alignment of Sydney Trains down track ▪ Pile trimming works ▪ Access track construction ▪ Piling pad construction <p>Chatswood Dive site</p> <ul style="list-style-type: none"> ▪ Site establishment activities including handover of existing TSE Water treatment plant and tunnel excavation material storage shed ▪ Site preparation for site sheds <p>Artarmon BPS works</p> <ul style="list-style-type: none"> ▪ No construction activities <p>Crows Nest Station site</p> <ul style="list-style-type: none"> ▪ Site establishment activities including handover of existing TSE lunchrooms, amenity and office sheds ▪ Preparing site for delivery of rail segments and flash-butt welding <p>Waterloo Station Box</p> <ul style="list-style-type: none"> ▪ Out of hours (OOH) delivery of rail ▪ Preparation of rail including rail grinding on surface of site ▪ Wheeled excavator and crane shifting rail into Station Box ▪ Flash-butt welding and rail grinding down within Station Box <p>Southern Dive (Marrickville)</p> <ul style="list-style-type: none"> ▪ Site establishment including fencing and basic ERSED controls ▪ Sheds / Amenities established <p>Canterbury to Campsie – Bulk Power Supply Works</p> <ul style="list-style-type: none"> ▪ Trenching and conduit installation ▪ Hand dig services where required ▪ Backfill and resurfacing ▪ Traffic control and detours ▪ OOH night cable laying on Canterbury Road 	
ER Inspections		
Line Wide	<p>There were a number of <i>pre-construction inspections</i> in August 2020 for Chatswood Dive, Crows Nest, the Artarmon BPS site, the Southern Dive Site (Marrickville) and the Waterloo Station Line wide site. Key issues discussed at the Chatswood and Crows Nest site inspections were:</p> <ul style="list-style-type: none"> ▪ The works comprise site establishment activities generally around the site compound and general supervision of site ▪ Systems Connect Principal Contractor since 01/08 following site handover from TSE contractor ▪ A number of Pre-construction and Planning Approval related items discussed whilst onsite. These included requirement for Site Environmental Plan (SEP) to be available on site and waste bins to be provided ▪ The site is being maintained in a clean and tidy condition by the contractor, and dust suppression is occurring <p>For the Artarmon BPS works, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Area adjacent to the BPS alignment is commercial / light industrial. No residential areas within the noise catchment ▪ Tree management and parking management Appropriately worded and directed business and 	



	<p>community notifications will be key to maintaining good relationships with adjoining businesses which will be adversely affected by the works</p> <ul style="list-style-type: none">▪ Access to the substation site will require well managed erosion and sediment controls because of close proximity to stormwater drains in Whiting Street▪ Bus layover parking area on southern side of Carlotta St will require particular management due to location of BPS works▪ It is noted that a SEP for the Artarmon Substation site has been provided. It is recommended that this is complemented by a SEP for the BPS works.▪ The trenching alignment crosses a signalised intersection. The works involve trenching through bitumen and concrete pavements which will result in a range of noise impacts <p>For Line Wide Area – Southern Dive Site (Marrickville), the key issues discussed were:</p> <ul style="list-style-type: none">▪ Access to the Line Wide site is through the TSE access gate on Sydney Steel Rd, Marrickville▪ Line Wide site is adjacent to the Metro southern dive site / portal▪ As at inspection date there were no Line Wide facilities on site▪ Areas of sludge adjacent to the TSE water treatment plant had not been removed from site prior to handover from TSE <p>For Line Wide Area – Waterloo Station, the key issues discussed were:</p> <ul style="list-style-type: none">▪ Line Wide area comprises a small area at the northern end of the broader Waterloo ISD site▪ Waterloo ISD Contractor, John Holland is the designated Principal Contractor (PC) for the site▪ The Water treatment plant (WTP) was observed to be operating for Commissioning Activities undertaken by John Holland▪ Various waste bins and spill kit wheelie bins had been left on site by TSE▪ Sediment fences had been left on site by TSE. These continue to be operationally effective▪ No activity on site by Line Wide, with a crane expected to be delivered during after hours the same night and the flash butt welder to be lowered into the box within the next few days▪ It was identified that the OOH delivery schedule may generate complaints from surrounding residents▪ The site has potential for dust generation from hard surfaces during windy conditions <p><i>Construction Inspections</i></p> <p>For SMTF North, the key issues discussed were:</p> <ul style="list-style-type: none">▪ Turbid water was overflowing from the temporary sediment basin following 35.0 mm rain in the previous 4 days. Systems Connect advised water monitoring was underway prior to treatment and completion of Permit to Dewater. Dewatering must be completed prior to further anticipated rain next weekend.▪ Removal of geofabric from area above and to north of sediment basin has commenced. It was noted that the surface under the geofabric has been compacted. Light ripping and watering may be required to enable and regeneration of vegetation on the site. This is ongoing.▪ Several sediment fences in the SMTF expansion area have experienced recent damage and require reinstallation.▪ Rubble and ballast had been tracked from the SMTF expansion site onto the MTS area. The contractor advised that a street sweeper was active on the site and would attend to the problem later in the afternoon.▪ Plants of a species of burr were observed, which occupy the recently vegetated area between the Snake Mountain haul road and the northern boundary of the site.▪ Construction of the SER building and installation of additional rail track is continuing.▪ SMTF expansion area has expanded into MTS rain storage area.▪ TSOM site office has been erected on Snake Mountain adjacent to the Line Wide office and additional parking area has been provided for TSOM vehicles.▪ Construction of new access road from MTS to SER building completed and the road has been <p>For Southern Dive (Marrickville) and Waterloo Station, the key issues discussed were:</p> <ul style="list-style-type: none">▪ Trenching Works inspected were located in High Street/ Cooks Ave and trenching and cable laying
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	<p>activity seems well managed</p> <ul style="list-style-type: none"> ▪ Noise monitoring at the school (as discussed last ER Inspection) will now be done over next day or so ▪ South Dive Site, Marrickville continuing to be established. ▪ System Connect to discuss source of potential off-site dirt tracking with TSE Contractor, where silts accumulated over existing culvert bridge in the middle of the Shared Access ▪ Ongoing OOH Rail Deliveries at Waterloo site. Flash-butt Welding and Rail Grinding occurring down inside Station Box ▪ A bunded storage solution needs to be implemented where jerry can stored amongst the Welding/Grinding worksite in Station Box ▪ Dust generated by movements of Wheeled Excavator. Site Supervisor called area wet down to prevent dust generation ▪ Noise Monitoring Record requiring further detail on measured construction noise level raised by Acoustic Advisor <p>For the Northern Connection, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Recent heavy rains have disturbed some of the site stabilisation works and resulted in silt deposition in drainage channels ▪ Tree protection panels around mature lemon scented gums require regular inspection to ensure that tree trunks are not being damaged by the panels; ▪ Flows from off-site are piped into the drainage system maintained by Systems Connect. ▪ Graffiti on hoarding adjacent to Valetta Lane. <p>For the Canterbury to Campsie – Bulk Power Supply Works, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Works inspected were located in Anzac Street / High Street / Cooks Ave and Canterbury Rd Canterbury. The works comprise trenching, installation of cables, backfilling and resurfacing. ▪ Feedback from workers on site indicated that the project has established very good relationship with nearby residents – as at the time of the inspection there had been no community complaints ▪ The site is being maintained in a clean and tidy condition by the contractor. ▪ Arborist present when excavation is undertaken within Tree Protection Zone of designated trees (Bird Tree Consultancy March 2020) ▪ The site is well sign posted and traffic controllers are on site to ensure vehicles and pedestrian do not encroach within the construction area ▪ Metal covers over excavations in Canterbury Rd generated banging noise when run-over by heavy vehicles. Investigations have been undertaken by Systems Connect to reduce noise levels. Modifications seem to have resulted in some reduction in noise levels ▪ Detritus in drain on southern side of Anzac Street to be removed before rain event due this week and road plates to be relocated so that stormwater flow in the drain is not impeded
Endorsed Document/s	
Line Wide	<ul style="list-style-type: none"> ▪ Consistency Assessment - BPS Routes to Artarmon and Waterloo ▪ OOHWA LWW-034-SMTF WE Possession 5-6 September ▪ OOHWA LWW-032-SMTF WE Possession 22-23 August ▪ LWW-OOH-021 Campsie BPS Trenching Works Area A4 Canterbury Road Rev A.05b ▪ LWW-OOH-028 Campsie BPS Trenching Works Area A2 Beamish Street Rev A.05
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>	
Line Wide	<p>Several complaints were received for OOH Works Rail Delivery at the Waterloo Site. SC responded to residents to apologise, and notify them the noise levels were within the predicted levels. Contact information was provided to the residents to contact SC as required</p> <p>There were no incidents for Line wine reported to the ER under conditions A41 to A44 of SSI 7400. There were 2 minor class 3 incidents:</p> <ul style="list-style-type: none"> ▪ Waterloo Site – Class 3 Incident Minor oil leak from Flash-butt Welder on 11/08/20. During the operation of the flash-butt welder, a hydraulic hose was under pressure and the cap on the hydraulic



	<p>tank had popped off, resulting in a spill of hydraulic oil. The operator immediately replaced the cap on the hydraulic tank. Spill kit contents were deployed. Used spill kit materials were disposed of, and a new spill kit has been placed on site</p> <ul style="list-style-type: none"> ▪ 14/08/20 Northern Connection Class 3 hydraulic oil leak. During the sorting of spoil to recycle ballast from Northern Connection, a hydraulic hose on an excavator has burst, causing a minor spill of < 20 L of hydraulic fluid into the stockpile. The daily pre-start check of the excavator had been done. The operator immediately turned off the machine to stop the flow of fluid. A fitter was called to fix the hose. Once the machine was operable, it was moved out of position and the contaminated material was side cast to enable correct disposal. <p>Items of note (not incident or non-compliance):</p> <ul style="list-style-type: none"> ▪ Canterbury to Campsie BPS Works – Unexpected Heritage Find: Cooks Ave, Canterbury 27/08/20. A section of old roadside kerbing was found beneath the current road surface during excavation work for construction of the Canterbury to Campsie Bulk Power Supply. The find comprised two parallel kerbs approximately 3m apart, constructed of rough-cut sandstone blocks. AMBS Heritage Consultant gave approval for the two fully exposed sandstone kerbing blocks to be removed so that works could proceed. AMBS Director Historic Heritage issued Clearance Certificate for Unexpected Heritage Find – Cooks Avenue Canterbury (AMBS Ref: 19683 CC1). The Clearance Certificate states that: <ul style="list-style-type: none"> ○ The identified remains do not meet the definition of a ‘relic’ under the Heritage Act 1977 ○ There are no heritage constraints and as such, works may proceed
Audits	
Line Wide	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
Looking Forward – Core Focus Areas	
Line Wide	<ul style="list-style-type: none"> ▪ SMTF (North) construction site works, especially dust management ▪ Cumulative impacts from adjacent projects ▪ Noise and vibration management during OOH for construction of portal between Chatswood and Artarmon ▪ Stakeholder engagement during transition/ handover between construction contractors ▪ Noise and vibration management during construction of 33 kV BPS from Campsie to Canterbury as well as resident access disruption and traffic management ▪ Waterloo – Management of groundwater and construction water discharges at the Waterloo ISD WTP

Summary of Contract Packages		Environmental Representative/s
TSOM (Train Service Operation and Maintenance)		Peter Hatton
Key Construction Activities		
TSOM – SMTF(N)	<ul style="list-style-type: none"> ▪ Cable pulling through conduit on trackside ▪ Continued Installation of trackside signalling and communication equipment ▪ Fit out activities 	
ER Inspections		
TSOM	ER inspection conducted on the 14 August 2020. Site was found to be in good order.	
Endorsed Document/s		
TSOM	Nil this inspection period	
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.		
TSOM	No complaints, incidents or NCRs	
Audits		
TSOM	No audits proposed	
Looking Forward – Core Focus Areas		
TSOM	Nil	



Summary of Contract Packages		Environmental Representative/s
Martin Place ISD Macquarie Bank/Lend Lease		Michael Woolley/Jo Robertson
Victoria Cross ISD (VC-ISD) - Lend Lease		Michael Woolley/Jo Robertson
Crows Nest ISD – Sydney Metro		Michael Woolley
Waterloo ISD – John Holland		George Kollias
Key Construction Activities		
MP-ISD	<ul style="list-style-type: none"> ▪ Completion of bulk excavation. ▪ Loadout platform completed for loading out spoil. ▪ Second Tower Crane installed in the south of the site. ▪ Detailed works including footing construction; and detailed excavation. 	
VC-ISD	<ul style="list-style-type: none"> ▪ No works reported to the ER as having been undertaken 	
CN-ISD	<ul style="list-style-type: none"> ▪ During the month there were works by both Utility providers (works conducted under third party approvals) and ASP works contracted by Sydney Metro (to remove redundant gas/water mains) 	
WL-ISD	<ul style="list-style-type: none"> ▪ Site establishment activities including handover of existing TSE lunchrooms, amenity and office sheds ▪ Commissioning of Water Treatment Plan (WTP) ▪ General supervision of the site by John Holland (Principal Contractor) ▪ Interface with Linewise works: Lifting rail into station box, rail grinding surface and station box; flash-butt welding in station box, OOH deliveries of rail 	
ER Inspections		
MP – USP/ ISD	ER Inspection at the Martin Place site was carried out on 20 August 2020. No new issues were identified during the inspection.	
VC-ISD	No inspections conducted.	
CN-ISD	No inspections conducted.	
WL-ISD	<p>Two pre-construction inspections with John Holland Environment Team (Waterloo ISD Contractor) and Sydney Metro. Aspects discussed:</p> <ul style="list-style-type: none"> ▪ The works comprise site establishment activities, water sampling for WTP Commissioning and general supervision. ▪ A number of pre-construction and planning approval related items discussed ▪ The site is being maintained in a clean and tidy condition by the contractor, and dust suppression is occurring ▪ OOH noise complaints regarding rail deliveries (Linewise Contractor’s works) have not been shared with JH environmental team ▪ A spill kit along the pedestrian path should be swapped for a waste bin or re-stock and secured if intended to be spill kit 	
Endorsed Document/s		
USP/ ISD- Martin Place	<ul style="list-style-type: none"> ▪ OOH50 Removal of Plant off site ▪ OOH49 Installation of second Tower Crane ▪ OOH51 Hoarding Works 	
VC - ISD	<ul style="list-style-type: none"> ▪ Nil this reporting period 	
CN - ISD	<ul style="list-style-type: none"> ▪ ASP1 OOHs Application for Utility works 	
PS-ISD	<ul style="list-style-type: none"> ▪ Consistency Assessment - Pitt Street South – OSD integration: Retail, Storage and Bicycle Parking 	
WL-ISD	<ul style="list-style-type: none"> ▪ OOHW #03 - Pavement Testing (FWD) 	
Complaints / Incidents / Non-compliance		
USP/ ISD- Martin Place	<p>No complaints were reported to the ER that related to the MP-ISD project. The ER is not aware of any non compliances. There were no incidents reported by Lend Lease as defined by the project approval definition for incidents under condition A41.</p>	
VC-ISD	No complaints, incidents or non compliances were reported to the ER during the reporting period.	
CN-ISD	No complaints, incidents or non Compliances were reported to the ER during the reporting period.	
WL-ISD	No complaints, incidents or non compliances were reported to the ER during the reporting period.	



Sydney Metro	Complaints received for Sydney Metro works are included in complaint summaries provided to DPIE daily. There were no incidents reported by Sydney Metro for Sydney Metro conducted works as defined by the project approval definition for incidents reported to DPIE under condition A41.
Audits (specific to packages reported in this report)	
Nil	
Looking Forward – Core Focus Areas	
MP – USP/ ISD	<ul style="list-style-type: none"> ER Audit of EHS Management Plan as per condition of Approval of the document.
VC - ISD	<ul style="list-style-type: none"> Nil
CN - ISD	<ul style="list-style-type: none"> Noise from Out of Hours works for utilities along the Pacific Highway.
WL-ISD	<ul style="list-style-type: none"> Completion of pre-commencement approval requirements Management of groundwater discharge; Interface with Line Wide

Summary of Contract Packages	Environmental Representative/s
Sydenham to Bankstown Sydney Metro Early Works (SMEW)	Jo Robertson
Key Construction Activities	
SMEW	<ul style="list-style-type: none"> Ewart Street and Laydown, Garnet Street, Ness Avenue: Post Possession minor works to CSR Foord Avenue, Keir Avenue, Metford Street: Preliminary works to prepare for a footing construction to the eastern side of the culvert (Metford Avenue access point). Loose ground and perched water had been encountered so works were on hold as JHLOR developed a solution Retaining Wall 2 (RW2), Batter stability tests and civil work underway at Cooks River end of the site. Some civil work underway on the batters at the Wairoa end of the site. Fill being placed behind the retaining wall Retaining Wall 3 (RW3), Wairoa Street, North and South Parade: Batter civil works had extended towards the Campsie end of the RW3 work site
ER Inspections	
SMEW	<p>Key issues identified during August inspections related to:</p> <ul style="list-style-type: none"> The batters on the southern side of Foord Avenue were exposed – it was discussed that some stabilisation strategy should be employed here JHLOR should ensure that the pre condition survey of the proposed footpath closure area covers all structures not just the pavement condition prior to taking control of the footpath at RW2. Preliminary planning for new works will need to be consideration of the impact to the swale and flow through surface water, as well as de-vegetation activities Overall, the site was generally in a tidy condition.
Endorsed Document/s	
SMEW	<ul style="list-style-type: none"> OOHW 011 - Canterbury Road Overbridge Bridge De-vegetation and Pipeline Assessment
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.	
SMEW	<p>There were no incidents reported to the ER under conditions A36 of SSI 8256.</p> <p>The ER is not aware of any non compliances for SMEW for the period.</p> <p>There was one complaint related to the SMEW works in relation to worker behaviour. The contractor will be reminded of courteous neighbour policies.</p>
Audits	
SMEW	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
Looking Forward – Core Focus Areas	
SMEW	<ul style="list-style-type: none"> Environmental controls associated with works in proximity to Cooks River Compliance review Q2, 2020



Summary of Contract Packages		Environmental Representative/s
Sydney Metro Retained Obligations (SM)		Jo Robertson
Key Construction Activities		
SM	▪ Nil	
ER Inspections		
SM	▪ Nil	
Endorsed Document/s		
SM	<ul style="list-style-type: none">▪ Draft Overarching Community Communications Strategy update provided to the ER▪ Draft Chatswood to Sydenham Staging Report update provided to the ER▪ Draft Sydenham to Bankstown Staging Report update provided to the ER	
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.		
Audits		
SM	No ER involvement in audit activity including Independent Environmental Audits (IEA program).	
Looking Forward – Core Focus Areas		
SM	▪ Compliance review Q1 and Q2, 2020 for Sydney Metro Retained Obligations.	

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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