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Director Infrastructure Management  
Department of Planning, Industry and Environment  
GPO Box 39  
SYDNEY NSW 2001

5 December 2019

Ref: 170108-ER-DPIE-Nov19-SSJ CS NCW LW S2B

Dear Erica

**Re: Sydney Metro City & South West - ER Monthly Report for November 2019 – CS, NCW, SSJ, LW and S2B**

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) and MOD6\_ Administrative Changes (21 February 2019);
- Condition A26(j) of the Sydney Metro Sydenham to Bankstown Upgrade SSI\_8256 Approval (12 December 2018).

The attached summary details the following key activities undertaken by ERs for Sydney Metro – City and South West Chatswood to Sydenham (C2S) during the month of **November 2019** for Sydenham Station Junction, Central Station, Northern Corridor and Line Wide Works.

It also provides a summary in relation to the Sydney Metro - Sydenham to Bankstown (S2B) for the same period.

Yours sincerely

Jo Robertson  
Environmental Representative

Sydney Metro Cc: Fil Cerone, Matt Marrinan, Ben Armstrong, Stuart Hodgson, Adam Koutsamanis, Margarita Ognjanovic, Andrew Hendy, Simon Fisher, Tim Solomon  
DPIE Cc: Elizabeth Williamson, Alice Pryke  
IEP Cc: Larry Weiss, Julie Dickson



Summary of Contract Packages		Environmental Representative/s
Sydenham Station Junction (SSJ)		Jo Heltborg
Central Station		Michael Woolley
Northern Corridor (NCW)		Peter Hatton
Line Wide (Tallawong to Bankstown)		Peter Hatton
Sydenham to Bankstown Sydney Metro Early Works (SMEW)		Jo Robertson
Key Construction Activities		
Sydenham Station Junction (SSJ)	<ul style="list-style-type: none"> <li>▪ Combined Services Route (CSR) works - New concrete bridge over the channel has been constructed.</li> <li>▪ Rail Corridor - Electrical work in corridor (above-ground) was ongoing.</li> <li>▪ Burrows Ave - the new lift shafts are in place on Platforms 4, 5 &amp; 6. The lift roof canopy to be lifted by crane during the Christmas shutdown.</li> <li>▪ Corner of Unwins Bridge Rd &amp; Hogan Ave - Traffic island proposed for removal (Premise Maps extended) to allow construction vehicle access to Burrows Ave. Another traffic island and associated tree was removed on Burrows Ave to allow access for cranes during the Christmas shutdown.</li> <li>▪ 11 Sydenham Rd Marrickville - Concreting works in the deep excavation for culvert construction is ongoing. Stockpiles of treated potential acid sulphate soil (PASS) and excavated materials (segregated) remain on site for reuse as backfill.</li> <li>▪ Sydenham Pumping Station - Construction of new access ramp continuing. Aqueduct support columns were constructed, and further Super T's were lifted on top of the pylons.</li> <li>▪ Confluence Area – Area cleared for installation of confluence structure to Sydenham Pit.</li> <li>▪ Geotechnical Office area – temporary parking for JH vehicles – changed parking arrangements necessary due to closure of Portuguese Club car park to the project.</li> </ul>	
Central Station	<ul style="list-style-type: none"> <li>▪ Excavation of natural soils beneath Metro Box track slab. Loading of spoil onto trucks for offsite disposal. Water misters were in use during the month with mist observed exiting mole holes. The road header was observed in the station box. Heritage excavations continue on former haul road.</li> <li>▪ Piling, including excavation within hoardings on the Concourse, for the installation of foundations for the new canopy, is ongoing.</li> <li>▪ Possession works within station and installation of support beams at various platforms.</li> <li>▪ Piling commenced in the North West corner of the site in Randle Lane. This is day works only and Lane is re-opened at or before 6pm. A total of 66 piles are to be constructed.</li> <li>▪ A portion of the Olympic Tunnel was closed. As a consequence, commuters enter Central Station using an extended bridge, aided by additional wayfinding signage. Hoardings and signage for wayfinding on the upper Concourse have been installed to allow commuters to access the Station safely, separated from work areas.</li> <li>▪ Commissioning of Water Treatment Plant is ongoing.</li> <li>▪ Archaeological excavations ongoing.</li> </ul>	
Northern Corridor Works (NCW)	<ul style="list-style-type: none"> <li>▪ Artarmon Station to the termination of Sydney Metro line:               <ul style="list-style-type: none"> <li>◦ Signal support and construction works</li> <li>◦ Stockpile management and removal</li> <li>◦ Export of ballast material via work train</li> <li>◦ CSR/Drainage preparation works</li> </ul> </li> </ul>	



	<ul style="list-style-type: none"> <li>◦ Temporary cess drain</li> <li>◦ Galvanised Steel Troughing (GST) installation</li> </ul>
Line Wide	<ul style="list-style-type: none"> <li>▪ Excavation and construction of overhead wiring (OHW) footings</li> <li>▪ Saw cutting and excavation of CSR trenches</li> <li>▪ CSR installation and backfilling of trenches</li> <li>▪ Construction of reo cages and formwork for OHW footings</li> <li>▪ Backfilling around OHW footings</li> <li>▪ Breaking up of residual concrete for recycling.</li> </ul>
SMEW	<ul style="list-style-type: none"> <li>▪ Ewart Street Laydown and Ness Avenue. Bridge deck support piles installed.</li> <li>▪ Haul road construction constructed at Retaining Wall 2.</li> </ul>
<b>ER Inspections</b>	
SSJ	<p>There were two inspections conducted by the ER in November 2019. Issues identified during inspections involved:</p> <ul style="list-style-type: none"> <li>▪ Covering treated PASS stockpiles, management of Sydenham Pit silt materials, general ERSED controls, management of bulldust on hardstand, tree protection, minor hazchem items (labelling and segregation), and correct use of concrete washout facilities.</li> </ul>
Central Station	<p>There were two ER inspections conducted in November 2019. Key issues identified were related to:</p> <ul style="list-style-type: none"> <li>▪ erosion and sediment controls near SYAB;</li> <li>▪ the potential for run off into ballast to be impacted by loose materials; the project was to ensure area is maintained as clean so that run-off is not impacted. It was noted that a sump allows for option to pump and treat runoff if required.</li> </ul>
NCW	<p>There was one ER inspection conducted in November 2019. Issues identified during inspections involved:</p> <ul style="list-style-type: none"> <li>▪ potential for dust generation with return of hot windy weather</li> </ul>
Line Wide	<p>There were two inspections in November 2019. The key issues discussed at these inspections were:</p> <ul style="list-style-type: none"> <li>▪ Generation of dust from the construction site is the major environmental risk. Contractor staff were aware of this and have been undertaking measures to reduce the risk of off-site dust emissions. Water carts have been active.</li> <li>▪ Areas immediately adjacent to the sediment basin have been stabilised by covering with geotechnical fabric.</li> <li>▪ A high standard of housekeeping is being observed on the site.</li> <li>▪ Sediment basin levels have reduced to the point where water cannot be extracted for dust control. The project is pursuing alternative sources of water for dust suppression including MTS stormwater detention basins and 97 Schofields Rd.</li> </ul>
SMEW	<p>There was one ER inspection conducted in November 2019. Key issues identified were related to:</p> <ul style="list-style-type: none"> <li>▪ erosion and sediment control items, including end of line controls at the cooks River, passive water management, stabilisation of exposed batters, and the management of the Sydney Metro/Sydney trains overlap.</li> </ul>
<b>Endorsed Document/s</b>	
SSJ	<ul style="list-style-type: none"> <li>▪ Nil</li> </ul>
Central Station	<ul style="list-style-type: none"> <li>▪ CSR Consistency Assessment A Phase B</li> </ul>
NCW	<ul style="list-style-type: none"> <li>▪ OOHWA 031 WE 20 P7 Rev 031</li> </ul>
Line Wide	<ul style="list-style-type: none"> <li>▪ Minor Works Application (MWA001) Campsie/Canterbury Early Works Investigation Survey Rev002</li> <li>▪ MWA007 Artarmon Sub-station Rev007 Geotechnical investigations</li> </ul>



	<ul style="list-style-type: none"> <li>▪ Out of Hours Works application (OOHWA) 004 Surry Hills to Waterloo Preliminary Investigations</li> <li>▪ OOHWA 007 Sydney Metro Transit Facility</li> </ul>
SMEW	<ul style="list-style-type: none"> <li>▪ ER approval of minor amendment - Southwest Metro Early Works CEMP Rev06</li> <li>▪ Construction Soil and Water Management Plan Rev05</li> <li>▪ Construction Heritage Management Plan Rev 05</li> <li>▪ Southwest Metro Early Works Construction Noise and Vibration Management Plan - Early Works Rev 5.</li> <li>▪ OOHW Metron T2M's non-invasive survey</li> <li>▪ OOHW Metron Design Investigations</li> </ul>
<b>Non-compliance/ Incidents or Repeat Complaints</b>	
<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>Complaint aspects for this site during the period included: Stakeholder concerned about excessive use of water to suppress dust during water restrictions. Asking that dust be cleaned with sweepers. It was determined that the project is permitted to use water for dust suppression, and it was noted that the use of sweepers have the potential to increase dust. The matter was referred to Sydenham Metro Upgrade Environmental Team to conduct a site inspection to determine if additional mitigation was required.</p> <p>A minor incident was reported related to the discharge of water. An incident report was prepared. There were no incidents for SSJ reported to the ER under conditions A41 to A44 of SSI 7400.</p>
NCW	<p>Complaint aspects for this site during the period included: property impact (windscreen chips potentially from site related activities – to be confirmed), noise from plant demobilisation, noise from people and machinery in the rail corridor, and an idling truck contributing to air pollution.</p> <p>There were no incidents reported to the ER under conditions A41 to A44 of SSI 7400.</p>
Central Station	<p>Complaint aspects for this site during the period included:</p> <ul style="list-style-type: none"> <li>▪ a complaint about noisy night works. It was determined that the works were Sydney Light Rail however offers of personal noise mitigation and noise monitoring were made and the Stakeholder was referred to Sydney Light Rail;</li> <li>▪ noise from the demolition works on the Northern Concourse. The Place Manager emailed the customer to confirm where the noise was coming from and apologised for the disruption, and</li> <li>▪ guest complaints were received at a business due to noise. Noise was from works taking place on station platform. After briefing with the business, an additional noise blanket was introduced as additional impact mitigation.</li> </ul> <p>There were no incidents for Central reported to the ER under conditions A41 to A44 of SSI 7400.</p> <p>LOR finalised two non compliances in November (NCR 11 and 13). The NCR's were as follows:</p> <p>NC 11: CSMW Project is subject to a Site Audit as required under Ministers Condition of Approval E67. In reviewing project waste tracking documentation in July 2019, the Site</p>



	<p>Auditor observed a chemical non-conformance against the Port Kembla Excavated Material Order 2018 for CSMW waste material supplied by the projects waste transport contractor Lantrak Resources. As a supplier of excavated material, LOR is subject to the requirements of the Order. Environmental verification documentation required by the Order was not submitted to LOR until October 2019. In reviewing the verification documentation, the Auditor found poor process and documentation management by consultants engaged by the Port Kembla facility to verify compliance with the Order. No material harm to the environment occurred. In accordance with the Guidelines for the NSW Site Auditor Scheme, the Site Auditor is required to notify the EPA of any non-compliances found on the project. The auditor notified the EPA on 24/10/19. The EPA have not formally responded to the Auditor or the project to date.</p> <p>NC 13: Spoil within the Metro Box was tested and classified in situ in a grid system to allow waste to be directly excavated and loaded out for disposal to a licenced landfill. A non-conformance was identified during the excavation and disposal of spoil from Grid 15. The Waste Classification Report for the surface strata (Report WAC15a) had identified asbestos fragments on the soil surface and subsequently the entire strata to 3m deep was classified as Special Waste – Asbestos (General Solid Waste). The surface sample of asbestos was confirmed however none of the subsurface samples found asbestos. The surface asbestos fragments and asbestos piping were progressively removed by LOR from Grid 15, separately stockpiled, tested and removed as Special Waste. The WAC15a report was not updated to reflect that the asbestos had been removed from the grid so the remaining material could be disposed of as General Solid Waste. Spoil was removed from site and disposed as General Solid Waste in contravention to the recommendations in the WAC15a report. All the subject material has been removed from site. As all asbestos had been removed and no further asbestos was identified by spotters during excavation, it is considered that no material harm to the environment occurred. The NCR was reported to the EPA on 27/11/19.</p>
Line Wide	<p>There was one complaint – a resident reported dust blowing from SMTF site into nearby Kalina Estate. The SMTF Environment Coordinator was to review dust mitigations in place. It was not clear if dust originated from SMTF expansion site, nearby Georgiou site or Metro north west near Tallawong Station. The customer was requested to contact the project to further investigate.</p> <p>Resolution – TBC. There were no incidents reported to the ER under condition D6 of SSI 5931.</p>
SMEW	<p>There were no incidents reported to the ER under conditions A36 of SSI 8256.</p>



<b>Audits</b>	
SSJ	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
NCW	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
Central Station	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
SMEW	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
Line Wide	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
<b>Looking Forward – Core Focus Areas</b>	
Sydney Metro	<ul style="list-style-type: none"> <li>▪ Compliance review for Q3 for 2019</li> </ul>
SSJ	<ul style="list-style-type: none"> <li>▪ Upcoming major possession work, (Xmas possession shut down).</li> <li>▪ Management of PASS</li> <li>▪ Dust management</li> <li>▪ Culvert work, and completion of supporting structures, and associated impacts.</li> </ul>
NCW	<ul style="list-style-type: none"> <li>▪ Possession planning for 2020</li> </ul>
Central Station	<ul style="list-style-type: none"> <li>▪ CSR Site Establishment and activities</li> <li>▪ Investigations and approvals associated with the use of the Eveleigh Facility</li> </ul>
Line Wide	<ul style="list-style-type: none"> <li>▪ SMTF (North) construction site works, especially dust management</li> <li>▪ Central to Waterloo 33 Kv works</li> <li>▪ Cumulative impacts from adjacent projects</li> </ul>
SMEW	<ul style="list-style-type: none"> <li>▪ Temporary road closure works (Various)</li> <li>▪ Erosion and sediment control and associated retaining wall works between Campsie and Canterbury Stations</li> <li>▪ Approval of OOHW under the OOHW Protocol</li> <li>▪ Works conducted during possession under the Sydney Trains Environment Protection Licence (EPL)</li> </ul>