

Stacy Warren
Director Infrastructure Management
Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

7 November 2018

Ref: 170108-ER-DPE-Oct 18-SYAB CS NCW IW

Dear Stacy

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for October 2018 – SYAB, CS, NCW, SSJ, and Investigation works

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

- Condition A24 (I) 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), and MOD 3_Martin Place Metro Station (22 March 2018) ; and
- As required by the subsequent appointment as the approved Environmental Representative (17 February 2017);

The attached summary details the following key activities undertaken by ERs for Sydney Metro – City and South West Chatswood to Sydenham during the month of **October 2018** for Sydney Yard Access Bridge, Sydenham Station Junction, Central Station Works, Northern Corridor Works and Investigation Works.

Yours sincerely



Jo Robertson
Environmental Representative

Sydney Metro Cc: Fil Cerone, Matt Murrinan, Ben Armstrong, Stuart Hodgson, Adam Koutsamanis, Margarita Ognjanovic, Andrew Hendy, Simon Fisher,
DPE Cc: Swati Sharma, Rob Sherry, Kate Moore,
IEP Cc: Larry Weiss, Julie Dickson



Summary of Contract Packages	Environmental Representative/s
Sydney Yard Access Bridge (SYAB) (Early Works package)	Annabelle Reyes
Sydenham Station Junction (SSJ) (Early works and Main works)	
Central Station (Early Works and Main Works)	
Investigation Works	
Northern Corridor (NCW) (Early Works package)	Annabelle Reyes / Erran Woodward
Alternate for all packages	Jo Robertson

Key Construction Activities	
Sydney Yard Access Bridge (SYAB)	<ul style="list-style-type: none"> ○ Construction works completed in May 2018. ○ SYAB is now in operation. ○ Compliance Tracking Report for Quarter 2 2018 is yet to be finalised.
Sydenham Station Junction (SSJ)	<p>The following works were undertaken during the month of October 2018:</p> <ul style="list-style-type: none"> ○ Excavation, piling and concrete works on platforms 4, 5 and 6 and along Burrows Avenue in preparation of new aerial concourse, lift and stairs (ongoing until December 2019). ○ Locating, inspecting and installing new combined services routes (ongoing until December 2020). ○ Modifying overhead wire systems (ongoing until November 2020). ○ Moving of the project team into the site compound at Fraser Park. The team will occupy these offices until mid-2021. ○ Installation of water filled barriers, temporary fencing and temporarily removing 11 street parking spaces on Garden Street to provide access to the Sydenham Drainage Pit (subject to Council approval). ○ Survey work and excavation of trenches for utility service location. ○ The installation of a new telecommunications tower at the corner of Shirlow and Saywell Streets, Marrickville was rescheduled until 13 November 2018 when the temporary site compound will be removed. ○ Out of hours work: <ul style="list-style-type: none"> ▪ Delivery of a 450 tonne mobile crane to the rail corridor behind Fraser Park. ▪ Deliveries of equipment via the rail corridor access gate on Railway Parade south of Bedwin Road. ▪ Survey work and excavation of trenches for utility service location. ▪ Excavation and installation of new service pits located inside the rail corridor (rear of Fraser Park).
Northern Corridor Works (NCW)	<p>The following rail possession based works were undertaken during October 2018:</p> <ul style="list-style-type: none"> ○ Weekend 14 works commenced between Brand Street and Albert Avenue on 6th October 2018 and concluded 8th October 2018 (0000 Saturday – 0200 Monday). Work included: <ul style="list-style-type: none"> ▪ Super sucking of footing locations ▪ Footing construction ▪ Break out redundant concrete pits ▪ Stockpiling of material ○ Midweek 14 works commenced between Brand Street and Albert Avenue on 8th October 2018 and concluded 12th October 2018 (2100 Monday – 0400 Friday). Work included: <ul style="list-style-type: none"> ▪ Strike and remove formwork ▪ Stand and attach steel on OHW footings ▪ Survey and monitoring ○ Weekend 16 works commenced between Brand Street and Albert Avenue on 20th October 2018 and concluded 22nd October 2018 (0000 Saturday –



	<p>0200 Monday). Work included:</p> <ul style="list-style-type: none"> ▪ Super sucking of footing and ULX locations ▪ Footing construction ▪ Standing of steel on footing locations ▪ ULX construction ▪ Stockpiling of material ▪ Preparation for removal of OHW contact and catenary from existing structures in WE18 ▪ Install of cantilevers on OHW masts <p>○ Mid-week 17 works commenced between Brand Street and Hopetoun Avenue on 29th October 2018 and conclude 2nd November 2018 (2100 Monday – 0500 Friday). Work included:</p> <ul style="list-style-type: none"> ▪ Piling at Hopetoun Avenue ▪ Standing of steel on footing locations ▪ Strike and remove formwork/finish grouting ▪ Stockpiling of material ▪ Preparation for removal of OHW contact and catenary from existing structures in WE18 ▪ Install of cantilevers on OHW masts ▪ Super sucking of footing locations ▪ Survey and monitoring <p>○ Traffic control was in place on Drake Street to ensure access for construction vehicles is maintained. Traffic Control Plans, approved by Willoughby City Council were implemented.</p> <p>○ Deliveries of major components associated with the possession works occurred during standard construction hours.</p>
<p>Central Station</p>	<p>The following works were undertaken:</p> <ul style="list-style-type: none"> ○ Excavation and building of the new staircases on Platforms 20-21 and 22-23. ○ Service searching around station concourses. ○ Demolition and removal of roof canopies from Platforms 13, 14 and 15. ○ Demolition of the cleaners building and preparatory works for demolition of an office building in Sydney Rail Yard. ○ Installation of the temporary office accommodation adjacent the southern end of Platform 1, behind 18 and 26 Lee Street. ○ Out of hours work: <ul style="list-style-type: none"> ▪ Excavation and building new staircases on Platforms 20-21 and 22-23 using hi-rail equipment and small construction equipment. ▪ Preparatory works for the removal of the former newsagent at end of Platforms 9, 10-11. ▪ Preparatory works for the demolition of the Platforms 14 - 15, the cleaners building and an office building in Sydney Rail Yard. ▪ Delivery of materials using pedestrian tunnels in off peak hours. ▪ Excavation for service installation and sheet piling works in Sydney Rail Yard. ▪ Deliveries to southern end of Platform 1 via the 18 – 26 Lee Street driveway. ▪ Construction of an overhead wire footing at the southern end of platform 16.
<p>Investigation Works</p>	<p>The following works were conducted:</p> <ul style="list-style-type: none"> ○ Survey & Utility Location and Slit Trenching, Marrickville (Sydney Steel Road, Edinburgh Road, Murray Street, Railway Parade).



ER Inspections	
SYAB	No more inspections required. SYAB is now in operation.
SSJ	An inspection was conducted by the ER on 11 October 2018. The ER Inspection report was prepared and issued to Sydney Metro and the SSJ Contractor, the John Holland Laing O'Rourke Joint Venture (JHLORJV). Actions identified during this inspection required improvements to erosion and sedimentation controls around the site boundary of White Tollage laydown area. Various notes were recorded in the report reflecting commitments made by JHLORJV.
NCW	An inspection was conducted by the ER on 20 October 2018 (possession weekend). The ER Inspection report was prepared and issued to Sydney Metro and the NCW Contractor Laing O'Rourke (LOR). No issues were identified during this inspection. Various notes were recorded in the report reflecting commitments made by LOR
Central Station	There were three ER inspections conducted in October 2018. ER Inspection reports have been prepared and issued to Sydney Metro and the CSMW Contractor Laing O'Rourke (LOR). Actions identified during the inspections comprised of: <ul style="list-style-type: none"> ▪ CSMW ER Inspection 07 – 10/10/2018 – no issues ▪ CSMW ER Inspection 08 – 20/10/2018 - (conducted during possession weekend) – issue raised on erosion and sedimentation controls. ▪ CSMW ER Inspection 09 – 26/10/18 – (conducted with the Independent Environmental Auditor) – issues raised on erosion and sedimentation controls and clean-up of diesel stained ballast Various notes were recorded in the reports reflecting commitments made by the LOR
Investigation Works	Nil

Endorsed Document/s	
SYAB	Nil
SSJ	The following documents were reviewed and endorsed by the ER: <ul style="list-style-type: none"> ○ SSJ OOHW-015 Delivery Turn Outs ○ SSJ Trees Impact Assessment Report – External to Rail Corridor Rev 02 ○ SSJ-OOHW-013 for Wk15. ○ SSJ CA06- Consistency Assessment - Pedestrian Ramps Hogan Ave ○ SSJ Tree impact Assessment Report Revision 5 ○ SSJ-CA05 Consistency Assessment - Sydney Water Laydown (Carrington Road) (Rev 1 and 2)
NCW	The following documents were reviewed and /or endorsed by the ER: <ul style="list-style-type: none"> ○ NCW OOHW 022 - Weekend 20 Rev 01 ○ NCW OOHW 022 Wk 20 Rev 03 ○ NCW OOHW 021 - Weekend 18 Rev 03 ○ NCW OOHW 021 – Wk 18 Rev 02 ○ NCW OOHW 020 – Wk 17 Rev 03 ○ NCW Construction Environmental Management Plan Rev 08 ○ Construction Noise & Vibration Management Plan for NCW Portion 7B (Ref MNNNCW – Portion 7b – CNVMP_V0.4.docx Version V.04 27/9/2018) ○ Construction Noise & Vibration Impact Statement NCW, Portion 7B, (Ref 0424696 – NCW P7B – CNVIS Version F.01 27/9/2018) ○ NCW Construction Noise and Vibration Monitoring Program (Revision 03 27 September 2018) ○ 2018 Q3 NCW P7 Compliance Tracking Register draft
Central Station	The following documents were reviewed and endorsed by the ER: <ul style="list-style-type: none"> ○ 2018 Q3 CSM Compliance Tracking Register 081018 draft ○ CSMW OOHW-009 October 2015 Rev 5 ○ CSMW CA – Platform Zero Rev 2



	<ul style="list-style-type: none"> ○ CSMW OOHW Application 010. ○ CSMW ECM for Enabling Works Rev 2 ○ CSMW ECM for Platform Zero Rev 0 ○ CSMW-OOHW-009 Rev 4. ○ Week13-Week17 – 29/09/18 to 28/10/18 ○ CSMW OOHW -009 Platform 9-23, and Sydney Yard Works and Platform Zero as per CNVIS Rev 4, Annex B (Scenario 4-8 and 15, 16, 18)."
Investigation Works	<p>The following documents were reviewed and endorsed by the ER:</p> <ul style="list-style-type: none"> ○ Low Impact Works -02 - Monopole Removal from within the curtilage of the State Heritage Listed Sydenham Pit & Pumping Station ER endorsed ○ OOHW Marrickville East _ OOH-01 Form- New tower Build-Tower Removal ○ 20181016 OOHW_43_Application_Marrickville Slit Trenches_AltAA ER endorsed ○ 20181030 Axicom - Tower Build OOH App-AltAA ER endorsed

Non-compliance/ Incidents or Repeat Complaints	
SYAB	Nil
SSJ	Nil
NCW	<p>There were 7 complaints received during the month of October regarding parking on residential driveways, noise and air quality. It is understood that Sydney Metro has been providing summaries of complaints to DPE daily. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports.</p>
Central Station	<p>An incident was reported on 19 October 2018, regarding a small fuel fire in an electrical generator. The generator was reported to have suffered a major engine failure resulting in a fuel leak and consequent fire. The fire was extinguished by LOR personnel and fuel stained ballast was cleaned up.</p> <p>There were three complaints during the month of October 2018 with regards to business impacts, heritage and noise. It is understood that Sydney Metro has been providing summaries of complaints to DPE daily. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports.</p> <p>There were two non-compliances raised during October 2018 against Conditions of Approval E59 and E90.</p> <ul style="list-style-type: none"> - In accordance with the Conditions of Approval E59, copies of Building Condition Survey Reports must be provided to the owners of the buildings surveyed, and if agreed by the owner, the Relevant Council within three (3) weeks of completing the Survey Report and no later than one (1) month before the commencement of construction. The survey reports were not provided to the owner of buildings surveyed within three weeks of completing the report. - In accordance with the Conditions of Approval E90, copies of the Road Dilapidation Report must be provided to the Relevant Council within three weeks of completing the surveys and no later than one (1) month before the use of local roads by heavy vehicles. The reports were not submitted to Council within the required timeframe.
Investigation Works	Nil



Audits	
SYAB	Nil
SSJ	Nil
NCW	Nil
Central Station	An Independent Environmental Audit was conducted on 26 October 2018 with focus on heritage, spoil, soil and waste management processes.
Investigation Works	Nil

Looking Forward	
SYAB	Core Focus Areas for the coming month are: <ul style="list-style-type: none">Operational noise impacts of the trucks for deliveries and stockpile hauling.
SSJ	Core Focus Areas for the coming month are: <ul style="list-style-type: none">Site establishment and maintenance of erosion and sedimentation controls in and around laydown areas.
NCW	Core Focus Areas for the coming month are: <ul style="list-style-type: none">Out of hours works – cumulative noise impacts.
Central Station	Core Focus Areas for the coming month are: <ul style="list-style-type: none">Implementation of archaeological method statements and noise and vibration monitoring, as well as implementation of mitigation measures having regard to the demolition of the buildings, excavation and drilling of the Metro Station box and Olympic stairs work.
Sydney Metro	Core Focus Areas on business monitoring reporting to DPE as per CoA E64f.

Other	
Nil	