

Erica van den Honert
Director Infrastructure Management
Department of Planning Industry and Environment
GPO Box 39
SYDNEY NSW 2001

6 December 2019
Ref: 170108-ER-DPIE-TSE-MP-VC-19

Dear Erica

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for November 2019 – TSE , Martin Place ISD, Victoria Cross ISD

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), MOD 3_ Martin Place Metro Station (22 March 2018), MOD5_Blues Point Acoustic Shed (2 November 2018), and MOD6_Administrative Changes (21 February 2019); and
- As required by the subsequent appointment as the approved Environmental Representative (17 February 2017);

The attached summary details the key activities undertaken by Environmental Representatives for Sydney Metro – City and South West Chatswood to Sydenham during the month of **November 2019**.

Yours sincerely

Michael Woolley
Environmental Representative

Cc: Sydney Metro: Fil Cerone, Matt Marrinan, Ben Armstrong, Stuart Hodgson, Adam Koutsamanis, Pam Tummers, Margarita Ognjanovic, Rob Muir (JHCPBG), Jason Ambler (LL)
DPIE: Rob Sherry, Elizabeth Williamson, Alice Pryke
CC IEA: Larry Weiss, Julie Dickson



Summary of Contract Packages		Environmental Representative/s
Tunnel and Station Excavation (TSE)		Michael Woolley
Martin Place Unsolicited Proposal USP/ISD Macquarie Bank/Lend Lease		Michael Woolley/Jo Robertson
Victoria Cross ISD (VC-ISD) - Lend Lease		Michael Woolley/Jo Robertson
Key Construction Activities		
TSE	<p>Chatswood:</p> <ul style="list-style-type: none"> ▪ Ongoing TBM tunnelling and cross passage construction support. Works in the dive continuing. <p>Chatswood NCW:</p> <ul style="list-style-type: none"> ▪ Brand Street works -ongoing wall support and excavation of material in batter. Installation of sump. ▪ FCW: Bitumen seal completed; finishing works completed. Practical completion achieved, Sydney Trains not yet confirmed their acceptance, hence not opened prior to end of month. <p>Artarmon:</p> <ul style="list-style-type: none"> ▪ Handed over to Line Wide contractors on 30th September 2019. <p>Crows Nest Station:</p> <ul style="list-style-type: none"> ▪ TBM support activities in the station box; TSE aspects of sharks fin construction mostly complete. Reinstatement of footpath in former loading area completed. <p>Victoria Cross North site:</p> <ul style="list-style-type: none"> ▪ Lining of cavern, adits and pedestrian passages. Concrete supply to site. <p>Victoria Cross South site:</p> <ul style="list-style-type: none"> ▪ TBM's excavating towards Blues Point. Support activities; cavern lining. ▪ Excavation under the acoustic shed. Installation of scaffolding in preparation for demolition of the acoustic shed. Commencement of removal of acoustic shed roof sheets <p>Blues Point Temporary:</p> <ul style="list-style-type: none"> ▪ Slurry TBM 5 arrived on site on 30th October 2019. Removal of cutter head to surface. ▪ TBM 4 arrived on site on 28th November 2019. Removal of cutter head to surface. ▪ Larger parts of the Slurry TBM 5 such as the cutter head have been removed from site by barge with remaining parts pulled back through the tunnel to Barangaroo. <p>Martin Place Station-South:</p> <ul style="list-style-type: none"> ▪ Various works to install metal frame on the truck deck; rock sawing; hammering; roadheader activities in the pedestrian adit; removal of spoil. <p>Marrickville precast facility</p> <ul style="list-style-type: none"> ▪ Pre-cast facility operating and constructing segments. Load out of segments to relevant sites. ▪ Storage and handling of segments outside shed and in area to north. ▪ Further reduction of stockpiles segments noticeable. <p>Marrickville dive site:</p> <ul style="list-style-type: none"> ▪ TBM 2 and TBM 1 excavating beyond Martin Place towards Barangaroo. ▪ Ongoing construction of separation wall and other items in the dive. ▪ Ongoing Transgrid works with piling completed. ▪ Operation of water treatment plant and other support operations <p>Pitt Street North:</p> <ul style="list-style-type: none"> ▪ TBM support activities. ▪ Completion of heritage excavations under the previous access ramp. ▪ Excavation of shaft outside the acoustic shed. ▪ Wall support. <p>Pitt Street South:</p> <ul style="list-style-type: none"> ▪ Loading of trucks on the Metro Deck. ▪ Excavation and wall support continuing. ▪ Shear wall construction ongoing 	



	<p>Barangaroo Station:</p> <ul style="list-style-type: none"> ▪ TBM 5 has arrived at Blues point, hence TBM and slurry plant were not operating. ▪ The spoil stockpile for harbour sediments was cleared, some filter press material stored in the stockpile area. ▪ TBM5 has been delivered back to the site after first harbour crossing and was being assembled in the station box/crossover cavern. ▪ Cleaning and maintenance activities at the water treatment plant.
MP – USP/ISD	<ul style="list-style-type: none"> ▪ Excavation of site continuing using rock hammers on excavators. Sandstone being excavated and loaded out on trucks via Castlereagh Street. Excavation has progressed to the base of the adit constructed by TSE Contractors. ▪ Operation of water canons and misters across the site.
VC-ISD	<ul style="list-style-type: none"> ▪ Nil works ▪ Development of documents for stormwater installation along Denison Street.
ER Inspections	
TSE	<p>Weekly inspections continued of the sites under the management of the TSE contractor. There were four inspections carried out during the month. Issues identified during the inspections comprised:</p> <ul style="list-style-type: none"> ▪ Crows Nest – dirt on Hume Street section of site; maintenance of sediment controls ▪ Victoria Cross South – secondary containment for IBC ▪ Martin Place South –Hammering and other noisy activities observed during respite period ▪ Barangaroo – Secondary containment for IBC. ▪ Marrickville Dive – Containment of wash water from vehicle wash down activities; Water leaking under hoarding. <p>One inspection included a review of Cross Passage Excavation at XP43 and XP44. A final joint inspection (handover) inspection of Frank Channon Walk with TSE occurred on 28 November. 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>
MP – USP/ISD	<p>There was one inspection carried out in November 2019 of Martin Place North. No new issues were identified during the inspections. Various notes were made in the inspection report. ER Inspection report was prepared and issued to Sydney Metro and the MP-ISD Contractor.</p>
VC-ISD	<p>Nil Inspections conducted</p>

Endorsed Document/s	
Sydney Metro	<ul style="list-style-type: none"> ▪ Nil
TSE	<ul style="list-style-type: none"> ▪ Site Environmental Plans were signed for Pitt Street South Rev 9
USP/ ISD- Martin Place	<ul style="list-style-type: none"> ▪ Out of hours works (OOHW) approvals <ul style="list-style-type: none"> ○ OOH 19 Hunter Street Hoarding ○ OOHW 21 Utilities Investigation
VC - ISD	<ul style="list-style-type: none"> ▪ OOH1-Survey Works

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. The ER was notified by Sydney Metro of complaints made to Infrastructure NSW and passed on to Sydney Metro in October in relation to cyclists falling off bikes in the Hickson Road area.</p> <p>There were no incidents reported to the ER under conditions A41 to A44.</p> <p>During the ER Inspection on 19 November hammering was observed within the respite period of 12:00pm to 1:00pm, as well as other noisy activities. JHCPBG investigated the event and prepared an investigation report dated 22 November 2019 that presented findings and actions to complete to minimise the risk of recurrence. No complaints were received from any nearby stakeholders or</p>



	<p>sensitive receivers. The respite time was determined in a report prepared to demonstrate compliance with E38 dated 16 November 2018 following consultation with relevant stakeholders. The CNVIS for the works (Rev 5 dated 15 November 2019) Section 4.1.2 <i>Respite for high noise impact works (including PPA Conditions E37 and E38)</i> refers to the requirements of Conditions E37 and E38 and implies that daytime works would be conducted with respite determined under these conditions. As the respite period defined in the E38 report and as communicated with stakeholders at the time was not followed, it is considered the document was not fully implemented and hence represents a potential non compliance under Condition A8.</p> <p>JHCPBG reported that “a vibration alert was received for 50 Martin Place on the 14 November 2019 at 1:20pm with a reading of 8.1mm/s. Upon receiving the vibration alerts from our monitors work was stopped immediately in line with our CNVMP, works were reviewed and a 14T excavator working near the escalator barrel was replaced with small handheld jackhammers”. The vibration screening criteria defined under Condition E28.1 of 7.5mm/s was exceeded, and as it was acted upon and no further exceedences were reported by JHCPBG, the event is not considered a non compliance with E28.1.</p>
USP/ ISD- Martin Place	<p>No complaints were reported related to the MP-ISD project.</p> <p>There was one incident reported by Lend Lease during the reporting period relating to a bus that impacted a recently installed B-Class hoarding on the corner of Elizabeth and Hunter Streets. This was not considered an environmental incident and no one was reported as being injured. Lend Lease reported the truck had to be assisted off the hoarding after a number of hours with suitable specialists involved to ensure the integrity of the hoarding remained intact.</p>
Sydney Metro	<p>Complaints received for Sydney Metro works are included in complaint summaries provided to DPIE daily.</p> <p>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.</p> <p>One Non Compliance with condition E44(e) was reported by Sydney Metro during the period for not submitting a negotiated agreement to DPIE at least one week prior to the works commencing.</p>
Audits (specific to TSE, MP ISD , and VIC ISD only)	
The final IEA for WTP at Barangaroo was issued to DPIE on 7 November 2019.	
Looking Forward – Core Focus Areas	
TSE	<ul style="list-style-type: none"> ▪ Tracking of dust/dirt onto roads at key excavation sites, particularly at Barangaroo ▪ Water treatment plant and discharge at Marrickville and Barangaroo ▪ TBM movement on barges from Blues Point ▪ Groundwater Management at Barangaroo ▪ ERSED controls in the Northern Corridor Area
MP – USP/ ISD	<ul style="list-style-type: none"> ▪ Management of noise, vibration and dust during bulk excavation activities
VC - ISD	<ul style="list-style-type: none"> ▪ Review of early works documents



HBI Healthy Buildings International Pty Ltd

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 (CSSI15_7400). 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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