

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

4 October 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 September 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 **September 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/ Alberto Paludetto
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. Various support activities. Excavation and construction of sump in base of dive. <p>Chatswood NCW:</p> <ul style="list-style-type: none"> ▪ Bland Street works - ongoing wall support and excavation of material in batter. ▪ FCW: noise barriers in place; batter excavation ongoing; preparation for new bitumen to be installed on path. <p>Artarmon Shaft:</p> <ul style="list-style-type: none"> ▪ Not Inspected. Concrete has been removed by rock hammering and covered in geofabric. Site was handed over to Line Wide Contractors on 30 September 2019. <p>Crows Nest Station:</p> <ul style="list-style-type: none"> ▪ TBM support activities. ▪ Continued excavation and wall support in the sharks fin area. <p>Victoria Cross North site:</p> <ul style="list-style-type: none"> ▪ Ongoing removal of spoil – 2 m at base of shaft to be excavated. Lining of adits and pedestrian passage. <p>Victoria Cross South site:</p> <ul style="list-style-type: none"> ▪ Both TBMs in the cavern. TBM 1 partially traversed cavern. Ongoing lining and blinding works for TBM traverse. <p>Blues Point Temporary Retrieval Site:</p> <ul style="list-style-type: none"> ▪ Excavation completed in the shaft. No further barges for spoil to be used on site. ▪ Geotechnical drilling. ▪ Blinding of base of shaft and other lining works ongoing. Community Open day was held on 28-9-19. <p>Martin Place Station-South:</p> <ul style="list-style-type: none"> ▪ Ongoing hammering of sandstone to gain levels. Some areas adjacent 50 Martin Place completed to level. Concrete blinding where levels reached. <p>Clyde Barging Facility:</p> <ul style="list-style-type: none"> ▪ Barging spoil complete. Equipment may still be barged to Clyde during demobilisation. ▪ Ongoing management of environmental controls. <p>Barangaroo Station:</p> <ul style="list-style-type: none"> ▪ TBM excavating in harbour sediment and at end of month was back into sandstone. ▪ TBM and slurry plant operation ongoing with treated solids from the plant being stored in the area where the TBM was assembled and in a new area where the old large stockpile was in the centre of the site. ▪ Spoil from harbour sediments being treated on site with lime, tested and results received prior to removal. Significant build-up of slurry earlier in month due to need to wait for testing results to confirm PASS status. By end of month stockpiles of these sediments had been significantly reduced. ▪ Slurry spoil being removed by truck and dog under the Resource Exemption Order for estuarine sediment issued by EPA 10-Sep where able. ▪ Operation of slurry and water treatment plants. ▪ Spoil management and spoil removal offsite ongoing. ▪ Ongoing environmental controls including street sweeper and water cart. ▪ Truck bath with rumble grid as wheel wash in use. <p>Pitt Street North:</p>



	<ul style="list-style-type: none"> ▪ Lining works ongoing. ▪ TBM1 and TBM 2 traversed site during the month and both excavating by end of month. ▪ Site sheds removed from outside the acoustic shed. <p>Pitt Street South:</p> <ul style="list-style-type: none"> ▪ Lining ongoing. ▪ Surface: Steel bridge in place adjacent Pitt Street. ▪ Excavation and wall support continuing. <p>Waterloo Station:</p> <ul style="list-style-type: none"> ▪ No surface activities at time of inspection, other than laydown. ▪ Continued excavation and removal of concrete slab in base of station box. ▪ Stockpiling of broken concrete in the station box. ▪ TBM support activities. ▪ Last building removed. New concrete hardstand in place at southern entrance. <p>Marrickville precast facility</p> <ul style="list-style-type: none"> ▪ Pre-cast facility operating. ▪ 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 support activities. ▪ Ongoing construction of separation wall in the dive. ▪ Preparation for Transgrid HV line relocation adjacent the dive. ▪ Operation of water treatment plant and other support operations. ▪ New tanks continue to operate at the WTP to reduce sediment entering the plant.
MP – USP/ISD	<ul style="list-style-type: none"> ▪ Excavation of footings across the site completed. ▪ Building demolition waste has been removed. Sandstone being excavated and loaded out on trucks via Castlereagh Street. ▪ Dozer ripping sandstone as main means of excavation, supported by rock hammering. Water misters in place for dust suppression. ▪ Lend Lease indicated that the current approach is to continue to remove spoil from site via the existing exit at Castlereagh Street, and not to build the ramp through to exit on Elizabeth Street. This has the benefit of not opening up a new pedestrian and traffic interface. ▪ Piling activities for CHS units to isolate the adits underground completed. Small drilling rigs on western side of the site operating. Works underground for footings for the piles. Also works underground to secure northern adit with A frame units. ▪ Commissioning and operation of water treatment plant using water from recent rains in batch process. ▪ Larger hardstand area for ramp to Castlereagh Street has been constructed.
VC-ISD	<ul style="list-style-type: none"> ▪ Nil works ▪ Low impact activity application submitted to DPIE for approval of potential heritage impacts related to stormwater relocation in Denison Street as being minor following OEH review.
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. Actions identified during the inspections comprised:</p> <ul style="list-style-type: none"> ▪ Chatswood NCW (Brand Street) – erosion and sediment management, tracking ▪ Crows Nest – Spoil build up on Hume Street ▪ Barangaroo – erosion and sediment management, and IBC secondary containment ▪ Marrickville Dive – Erosion and sediment control, and IBC containment. ▪ A final joint inspection (handover) inspection of Artarmon portion 11 with TSE and Line Wide occurred on September 30. <p>Various notes were made in the inspection reports reflecting commitments made by the TSE Contractors and risks identified during inspections.</p> <p>ER Inspection reports have been prepared and issued to Sydney Metro and the TSE Contractor.</p>



MP – USP/ ISD	There were two inspections carried out in September 2019 of Martin Place North. No new issues were identified during inspections in September. Various notes were made in the inspection reports. ER Inspection reports have been prepared and issued to Sydney Metro and the MP-ISD Contractor.
VC-ISD	Nil

Endorsed Document/s	
Sydney Metro	<ul style="list-style-type: none"> ▪ Nil
TSE	<ul style="list-style-type: none"> ▪ Flora and Fauna MP Rev 7
USP/ ISD- Martin Place	<ul style="list-style-type: none"> ▪ Out of hours works (OOHW) approvals <ul style="list-style-type: none"> ○ OOH15 Sewer cleaning and robotic grinding ○ OOH16 Piling ○ OOH16 Rev 2 Piling outside of standard construction hours ○ OOH17 Plant Deliveries.
VC - ISD	<ul style="list-style-type: none"> ▪ Nil

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, with follow up actions often defined in revised reports. One complaint related to ground borne noise on 22 September which is discussed further in the AA Monthly Report. As a result of this complaint it is understood that the Tunnelling CNVIS is to be updated to include a process for works to be undertaken outside of times prescribed in the CNVIS only if validation monitoring indicates the works can be undertaken within appropriate noise levels.</p> <p>There were no incidents reported to the ER under conditions A41 to A44.</p> <p>JHCPBG reported on 22 September some bubbling in the harbour above the slurry TBM location reported to the project by others. There was no apparent environmental aspect to this occurrence. DPIE and EPA were understood to have been notified on the same day as a courtesy.</p>
USP/ ISD- Martin Place	<p>One complaint was reported related to the MP-ISD project.</p> <p>There were no incidents or emergency works reported by Lend Lease during the reporting period.</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>

Audits (specific to TSE, MP ISD , and VIC ISD only)	
Independent Audit Program - A Water Monitoring and Control Audit was conducted by the Independent Environmental Auditor in September (12 and 26 September - report pending) .	

Looking Forward – Core Focus Areas	
TSE	<ul style="list-style-type: none"> ▪ Dust and slurry spoil management at Barangaroo ▪ Groundwater Management at Barangaroo ▪ ERSED controls in the Northern Corridor Area ▪ Tracking of dust onto roads at key excavation sites ▪ Planned bulk excavation activities at VC once acoustic shed has been removed ▪ Water treatment plant and discharge at Marrickville and Barangaroo
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"> ▪ Nil for ER, early project planning ongoing by others