

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

7 May 2019
Ref: 170108-ER-DPE-TSE- 19

Dear Erica

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for April 2019 – TSE Contract and Martin Place USP

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), MOD 5_Blues Point Acoustic Shed (2 November 2018), and MOD Administrative Changes (21 February)); 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 **April 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)
DPE: Kate Moore, 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/Lendlease	Michael Woolley/Jo Robertson
Key Construction Activities	
TSE	<p>Chatswood:</p> <ul style="list-style-type: none"> ▪ Tunnelling with both TBMs and spoil handling. Intersection works on Mowbray and Hamden Road operating. <p>Chatswood NCW:</p> <ul style="list-style-type: none"> ▪ Works along Frank Channon walk focussed on construction of the capping beam and retaining walls. Bland Street works included benching; soil nail installation, stockpiling and loading out spoil. <p>Artarmon Substation:</p> <ul style="list-style-type: none"> ▪ Liner installed in the shaft. Few activities occurring. Preparation for handover from TSE Contractors. <p>Crows Nest Station:</p> <ul style="list-style-type: none"> ▪ Ongoing excavation; wall support and profiling; nozzle construction; spoil removal off site; water treatment and various other works. ▪ Preparation works for “sharks fin” area. <p>Victoria Cross North site:</p> <ul style="list-style-type: none"> ▪ Excavation by excavators with rock hammers and excavators with saw cutters. ▪ Stockpiling spoil in the shed and removal of spoil. <p>Victoria Cross South site:</p> <ul style="list-style-type: none"> ▪ Excavation by road header and wall support. Removal of spoil. Other support activities. <p>Blues Point Temporary Retrieval Site:</p> <ul style="list-style-type: none"> ▪ Construction of frame for the remaining part of the acoustic shed and cladding installation. ▪ Ongoing excavation using rock hammer. ▪ Pile cap construction. ▪ Wharf access ramp in place – ongoing works to complete the wharf. <p>Barangaroo Station:</p> <ul style="list-style-type: none"> ▪ TBM being stored on site with assembly activities ongoing. ▪ Barge spoil loading activities ongoing with one to two barges sent out per day. ▪ Operation of water treatment plant ongoing. ▪ Construction of bentonite slurry treatment plants ongoing for TBM. ▪ Excavation; spoil management and removal offsite ongoing. ▪ Ongoing road header operation from the northern shaft in cross over cavern area. ▪ Ongoing environmental controls including street sweeper; wheel bath and water cart. <p>Martin Place Station- South:</p> <ul style="list-style-type: none"> ▪ Ongoing demolition of remaining structures and removal of spoil by Delta. ▪ Excavation of sandstone under walkway and adjacent 50 Martin Place with 30 tonne excavator and another small excavator. ▪ It is understood that vibration screening criteria defined under Condition E28.1 was reached at 50 Martin Place (based on vibration monitors in the building). JHCPBG reported that works were stopped; re-assessed; modified and continued without further exceedance of the criteria. <p>Pitt Street North:</p> <ul style="list-style-type: none"> ▪ Excavation using road headers completed. Lining and other works ongoing. <p>Pitt Street South:</p> <ul style="list-style-type: none"> ▪ Bulk demolition completed of buildings. ▪ Piling and capping beam works ongoing. ▪ Various areas cleared for heritage with NE corner still to be excavated. ▪ Heritage investigations ceased until remainder of slab is removed <p>Waterloo Station:</p> <ul style="list-style-type: none"> ▪ TBM 1 maintenance activities.



	<ul style="list-style-type: none"> ▪ Excavation of the station box using a crane with kibble. ▪ Hammering/cutting of side walls and wall support. ▪ Spoil management and loading out from the northern end of the site. ▪ Operation of the water treatment plant. ▪ Lining of the southern nozzles and base of excavation. <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. Breaking of out of spec segments for re-cycling. <p>Marrickville dive site:</p> <ul style="list-style-type: none"> ▪ Ongoing tunnelling by TBM 2. TBM 1 broken through to Waterloo on 6 April and is traversing Waterloo Station box. Spoil management. Operation of water treatment plant.
MP – USP/ISD	<ul style="list-style-type: none"> ▪ Hard demolition of 9-19 Elizabeth Street essentially complete except for basement adjacent Elizabeth Street. ▪ Loading of non rubble wastes into bins and load out off site. ▪ Spread re-usable rubble across the site to form a generally even layer and create ramps between Castlereagh Street and Elizabeth Street. ▪ Preparation and commencement of micro-piling and piling for ramp and protection of 50 Martin Place.
ER Inspections	
TSE	<p>Weekly inspections continued of the sites under the management of the TSE contractor. There were three inspections carried out during the month (no inspection was carried out after the Easter break to personnel availability and Construction Industry picnic day). Actions identified during the inspections comprised:</p> <ul style="list-style-type: none"> ▪ Waterloo – secondary containment for small fuel and chemical containers. ▪ Barangaroo – dust management, secondary containment for small fuel and chemical containers. ▪ Marrickville Dive – stormwater, erosion and sediment controls, spoil, and secondary containment of hydrocarbons and chemicals. ▪ Marrickville Pre-Cast – dust management and sediment controls. <p>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 April 2019 of the demolition of 9-19 Elizabeth Street. No new issue were identified during the inspection.</p>
Endorsed Document/s	
Sydney Metro	<ul style="list-style-type: none"> ▪ n/a
TSE	<ul style="list-style-type: none"> ▪ Out of hours works (OOHW) approvals <ul style="list-style-type: none"> ○ MPS_33 ESR ○ Extension of time for OOHWs MPS 07 and 010 ○ Martin Place OSD piling ▪ Air Quality Management Plan (AQMP) <ul style="list-style-type: none"> ○ AQMP Updated Rev 5 ▪ Construction Noise and Vibration Impact Statement (CNVIS) <ul style="list-style-type: none"> ○ Clyde CNVIS Rev 5 covering stockpile area ▪ Site Environment Plan (SEP) <ul style="list-style-type: none"> ○ I&M Works Carlow Street ○ I&M Works Royal Botanic Gardens ○ I&M Works St Leonards Park ○ I&M Works McLaren Street ○ I&M Works Williams Street ○ I&M Works Pacific Highway ○ I&M SEP 567 Pac Hwy Crows Nest



USP/ ISD- Martin Place	<ul style="list-style-type: none"> ▪ Out of hours works (OOHW) approvals <ul style="list-style-type: none"> ○ OOH6 Hoarding and Tree removal ○ OOH6 Hoarding and Tree removal-Amended ▪ Construction Environmental Management (CEMP) - Revised for micro piling ▪ Construction Heritage Management Plan (CHMP) - Revised for micro piling
Complaints / Incidents / Non-compliance	
TSE	<p>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>The following non compliances related to TSE works were reported to the ER for the period:</p> <ul style="list-style-type: none"> ▪ A complaint on 21 April at Victoria Cross North site was found to be related to rock hammering works out of hours and not in accordance with the approved CNVIS. ▪ A resident complained about jack hammering on Sunday 28 April which was not in accordance with the approved CNVIS. <p>JHCPBG have indicated that both incidents are being investigated and a written report will be issued regarding each incident.</p>
USP/ ISD- Martin Place	There was one complaint reported by Lend lease to have been received in relation to hoarding. This has been included in complaints data to DPE. There were no incidents reported by Lend Lease.
Sydney Metro	<p>Complaints received for Sydney Metro works are included in complaint summaries provided to DPE 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 DPE under condition A41.</p>
Audits (specific to TSE and MP ISD only)	
<p>Audit Related activities conducted during the period:</p> <ul style="list-style-type: none"> ▪ n/a 	
Looking Forward – Core Focus Areas	
TSE	<ul style="list-style-type: none"> ▪ Dust management at Barangaroo ▪ Works in the Northern Corridor Area ▪ Tracking of dust onto roads at key excavation sites ▪ Heritage investigations at Pitt Street South
MP – USP/ ISD	<ul style="list-style-type: none"> ▪ Out of Hours Works