

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

5 July 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 June 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 **June 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/Lend Lease	Michael Woolley/Jo Robertson
Key Construction Activities	
TSE	<p><b>Chatswood:</b></p> <ul style="list-style-type: none"> <li>▪ Tunnelling with both TBMs and spoil handling; various support activities</li> </ul> <p><b>Chatswood NCW:</b></p> <ul style="list-style-type: none"> <li>▪ Frank Channon Walk works included excavation and installation of a stormwater drainage system along the retaining wall; and excavation of material between the retaining walls and concrete batter.</li> <li>▪ General activities at Brand Street included construction of soil nail wall; excavation and removal of spoil. Reduced works due to restrictions from start of Sydney Metro line and rain.</li> </ul> <p><b>Artarmon Shaft:</b></p> <ul style="list-style-type: none"> <li>▪ No works occurring</li> </ul> <p><b>Crows Nest Station:</b></p> <ul style="list-style-type: none"> <li>▪ Breakthrough of TBM and traverse across the station box</li> <li>▪ Ongoing excavation; wall profiling; spoil removal off site.</li> <li>▪ Completion of nozzles at the northern end of the station box.</li> <li>▪ Water treatment and various other works.</li> <li>▪ Completion of piling in the “sharks fin” area.</li> <li>▪ Blinding layer in the excavation and other preparatory works for the arrival of the other TBM in the next few weeks.</li> </ul> <p><b>Victoria Cross North site:</b></p> <ul style="list-style-type: none"> <li>▪ Excavation by excavators with rock hammers and excavators with saw cutters and road header.</li> <li>▪ Continued excavation toward the cavern.</li> <li>▪ Stockpiling spoil in the shed and removal of spoil.</li> </ul> <p><b>Victoria Cross South site:</b></p> <ul style="list-style-type: none"> <li>▪ Excavation by road header and wall support.</li> <li>▪ Removal of spoil.</li> <li>▪ Other support activities.</li> </ul> <p><b>Blues Point Temporary Retrieval Site:</b></p> <ul style="list-style-type: none"> <li>▪ Ongoing excavation in shaft using rock hammer.</li> <li>▪ Barging operations continuing.</li> </ul> <p><b>Barangaroo Station:</b></p> <ul style="list-style-type: none"> <li>▪ Construction and commissioning of bentonite slurry treatment plants ongoing for TBM.</li> <li>▪ Excavation; spoil management and removal offsite ongoing.</li> <li>▪ Ongoing environmental controls including street sweeper and water cart.</li> <li>▪ Official launch of the TBM.</li> <li>▪ Operation of water treatment plant ongoing.</li> <li>▪ Truck bath with rumble grid as wheel wash in use.</li> </ul> <p><b>Martin Place Station- South:</b></p> <ul style="list-style-type: none"> <li>▪ Reinforced concrete pile guides constructed.</li> <li>▪ Piling of large diameter piles 24 hours/7 days per week</li> <li>▪ Excavation of sandstone under walkway adjacent 50 Martin Place with small excavator.</li> </ul> <p><b>Pitt Street North:</b></p> <ul style="list-style-type: none"> <li>▪ Removal of remaining spoil off site.</li> <li>▪ Lining works ongoing.</li> </ul> <p><b>Pitt Street South:</b></p> <ul style="list-style-type: none"> <li>▪ Heritage excavation underway under slabs previously in the NE corner of the site.</li> <li>▪ Piling completed. Shear wall excavation underway.</li> </ul> <p><b>Waterloo Station:</b></p>



	<ul style="list-style-type: none"> <li>▪ Handover of site to TBM crews – civil work generally completed. Cleaning of site still to be completed as part of the handover.</li> <li>▪ Cessation of the operation of the water treatment plant with all water directed to the station box and hence to Marrickville Dive WTP.</li> </ul> <p><b>Marrickville precast facility</b></p> <ul style="list-style-type: none"> <li>▪ Pre-cast facility operating.</li> <li>▪ Storage and handling of segments outside shed and in area to north.</li> </ul> <p><b>Marrickville dive site:</b></p> <ul style="list-style-type: none"> <li>▪ TBM 2 and TBM 1 both passed the Waterloo Station box and producing spoil. Spoil management and removal off site.</li> <li>▪ Some geotechnical investigations for future stages of the project was carried out by Sydney Metro at the dive site.</li> </ul>
MP – USP/ISD	<ul style="list-style-type: none"> <li>▪ Micro-piling completed.</li> <li>▪ Use of exit to north of previous exit on Castlereagh Street as normal exit temporarily blocked to conduct micro-piling.</li> <li>▪ Wall support along Elizabeth Street including installation of mesh; shotcrete and anchors where basement slabs are to enable removal of the slabs.</li> <li>▪ Removal and trucking off building demolition waste – concrete and bricks mixed with reo and other wastes.</li> <li>▪ Site sheds and hoarding installation ongoing along Elizabeth Street.</li> </ul>
<b>ER Inspections</b>	
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"> <li>▪ Chatswood NCW (Brand St) –stormwater, erosion and sediment management</li> <li>▪ Victoria Cross South – secondary containment of chemical and hydrocarbon storage</li> <li>▪ Barangaroo – secondary containment of oil containers (IBCs)</li> <li>▪ Marrickville Dive –secondary containment of IBCs and chemicals</li> <li>▪ Marrickville Pre-Cast – secondary containment of IBCs.</li> </ul> <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> <p>During the inspection on 25 June the focus at Barangaroo was on stormwater pits and how pre-existing stormwater drains had been sealed. This was to assess the potential risk of site water entering these systems. The results of this inspection were written up as part of the ER Inspection report.</p>
MP – USP/ISD	<p>There were two inspections carried out in June 2019 of Martin Place North. No new issues were identified during the inspections.</p> <p>Various notes were made in the inspection reports in respect of tracking controls; water management and risks identified during inspections. ER Inspection reports have been prepared and issued to Sydney Metro and the MP-ISD Contractor.</p>
<b>Endorsed Document/s</b>	
Sydney Metro	<ul style="list-style-type: none"> <li>▪ Metron Geotech at Marrickville Update for extension of time.</li> </ul>
TSE	<ul style="list-style-type: none"> <li>▪ CTR Q1 2019</li> <li>▪ CEMP Update Rev 06 – updated to address ER Comments</li> </ul>
USP/ ISD- Martin Place	<ul style="list-style-type: none"> <li>▪ Out of hours works (OOHW) approvals <ul style="list-style-type: none"> <li>○ OOH3 Extension</li> <li>○ OOH9 Hoarding May 2019 Rev 2 Extension to June 30</li> <li>○ OOH10 Service Scanning July 2019</li> </ul> </li> <li>▪ CTR Q1 2019</li> </ul>
<b>Complaints / Incidents / Non-compliance</b>	
TSE	It is understood that Sydney Metro has been providing summaries of complaints to DPE



	<p>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 no incidents reported to the ER under conditions A41 to A44.</p>
USP/ ISD- Martin Place	<p>No complaints were reported in June related to the MP-ISD project.</p> <p>There were no incidents or emergency works reported by Lend Lease in the reporting period.</p>
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>
<b>Audits (specific to TSE and MP ISD only)</b>	
No Internal or Independent Audits were conducted during the reporting period.	
<b>Looking Forward – Core Focus Areas</b>	
TSE	<ul style="list-style-type: none"> <li>▪ Dust and stormwater management at Barangaroo</li> <li>▪ Works in the Northern Corridor Area</li> <li>▪ Tracking of dust onto roads at key excavation sites</li> <li>▪ Heritage investigations at Pitt Street South</li> <li>▪ Planned excavation activities at MPS</li> </ul>
MP – USP/ ISD	<ul style="list-style-type: none"> <li>▪ Out of Hours Works</li> <li>▪ Planned excavation activities</li> </ul>