

HBI

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Department of Planning Industry and Environment
Locked Bag 5022
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7 March 2023

Ref:201208-ER_DPE-March 2023

Dear Rob

RE: Sydney Metro - Sydney Metro West SSI - ER Monthly Report for March 2023

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

- Condition A30 (k) of the Sydney Metro West, Concept and Stage 1 SSI 10038 Approval (11 March 2021), and associated modifications (MOD 1 - 28 July 2021, MOD 2 - 3 June 2022, MOD3 – 4 July 2022 and MOD4 - 23 December 2022); and
- Condition A32(k) of the Sydney Metro West – The Bays to Sydney CBD SSI 19238057 Approval (24 August 2022).

The attached summary details the key activities undertaken by Environmental Representatives for Sydney Metro – Sydney Metro West for the month of March 2023.

Yours sincerely

Greg Byrnes
Environmental Representative

Cc:

Sydney Metro: Matthew Marrinan, John Ierokis, Pamela Tummers, Andrew Hendy, David Virtue, Ari Stypel
Contractors: Joshua Maltese (Quick way), Jared Lipton (AFJV), Tahlia Moore (Transport for Tomorrow), Steph Mifsud (GLC), Sally Reynolds (JCG)
DPE: Major Projects Portal



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1 PHASE A - POWER ENABLING WORKS

The Environmental representatives for Phase A of Sydney Metro West are:

- Michael Woolley
- Greg Byrnes

Phase A - Power Enabling Works (PEW) is being delivered by Quickway.

Quickway are not required to hold an Environmental Protection Licence for these works.

1.1 Key Construction Activities During the Period

- Sites held by Quickway had been handed over to SM during the October 2022 reporting period.
- Works conducted by Quickway during the month of March 2023 comprised Line marking where road restoration works has been completed.

1.2 Key Construction Activities Look Ahead

- Nil. It is understood that Quickway have completed all construction activities relating to the project.

1.3 ER Inspections

No ER Inspections were conducted during the reporting period. No further ER Inspections are planned for Quickway works.

1.3.1 Photos

There were no ER Inspections held, therefore no photos were obtained during the reporting period.

1.4 Endorsed Documents

There were no documents issued for endorsement during the reporting period.

1.5 Complaints

Based on weekly Sydney Metro Complaint Registers provided, no complaints relating to PEW activities were reported during the month.

It is understood that some property damage claims are currently being reviewed by Sydney Metro.

1.6 Compliance

1.6.1 Incidents

No incidents were reported as per A43 of the Conditions of Approval for SSI 10038 for works conducted under the project approval during the reporting period.



1.6.2 Non-compliance

No Non-Compliance Reports (NCRs) were issued by the Contractor during the reporting period. No events were observed by the ER that were formally determined to represent a non-compliance.

1.6.3 Audits

No audits were conducted during the reporting period.

1.7 Looking Forward – Core Focus Areas

Nil, given construction works have been completed.



2 PHASE B - CENTRAL TUNNELLING PACKAGE

The Environmental representatives for Phase B of Sydney Metro West are:

- Michael Woolley
- Greg Byrnes
- Jo Robertson

Phase B – Central Tunnelling Package (CTP) is being delivered by Acciona Ferrovia Joint Venture (AFJV). Phase B of Sydney Metro West has been further broken into:

- Phase B1: Civil works
- Phase B2: Tunnelling works

The AFJV hold EPL 21610 for this Phase of works. Activities defined as Phase B2-Tunneling Works in the Staging Report for Metro West commenced during the November 2022 reporting period at Burwood North.

2.1 Key Construction Activities During the Period

The Bays

- Ongoing operation of the Construction WTP.
- Ongoing use of the haul road for WCX vehicles to access their site without going through the footprint of the station box.
- Completion of the concrete works for the spoil shed slab, footings and walls. Commencement of construction of the shed frame.
- Ongoing excavation of the station box involving use of rock hammers in the eastern end. Removal of spoil from the station box using long reach excavators. TBM assembly in the western end of the station box. Demobilisation of the yellow gantry crane. Construction of the grout plant.
- Installation of acoustic panels on the Segment Shed over the station box.
- Site offices and compound in operation.
- Stockpiling and load out of spoil from site during extended work hours.
- Construction of the TBM water supply pipeline along Robert Street using the former Quickway compound as a laydown area. Much of this work was OOHs.

Five Dock

- West shaft: Ongoing excavation of rock from the shaft using dozers and excavators. Load out of material by trucks during standard construction hours.
- East Shaft: Ongoing excavation of the shaft and wall support activities. Loading of trucks using a telescopic excavator. Ongoing use of a house on Waterview Street adjacent the eastern shaft.
- Utilities works in local streets such as water pipe and Ausgrid works in Great North Road.
- Various OOHs for utilities and loading of chemicals for the WTP at the east site.

Burwood North

- Ongoing excavation of the crossover cavern at the western end of the Station Box by road header. Twenty four hours, seven days per week operation commenced during the period.
- Ongoing excavation of the station box; stockpiling and load out off site of excavated materials. Wall support such as rock anchor installation.
- Ongoing placement of acoustic panels on the acoustic shed over the station box. Doors to the shed still to be installed and some gaps in the shed remained on 30 March 2023.
- Lining of adit.



- Use of truck egress to Parramatta Road.
- Operation of the Water Treatment Plant.
- Use of multi storey site offices.
- Various site establishment activities across the site.
- South Shaft: Completion of piling activities. Ongoing breakback of pile caps using jackhammers. Preparation for blinding layer around piles for the pile cap.

North Strathfield

- Ongoing piling activities on the upper side of the station box.
- Capping beam construction on both sides of the station box including drilling and stressing of rock anchors.
- Utility and traffic related works in the vicinity of the station box and general area.
- Road alteration and pedestrian crossing works on Queen Street.
- Incorporation of the footpath on south side of Queen Street into the site after closure of the footpath and installation of the pedestrian crossings across Queen Street.
- Ongoing construction of concrete pavement for future loading area along Queen Street adjacent the site.
- Removal of power cables and poles formerly in place along the southern side of Queen Street allowing piling along the top of the station box.

Sydney Olympic Park

- Ongoing excavation of the station box using a ripper on a dozer and excavators; drilling; installing and testing rock anchors; shotcreting of walls. Load out of spoil from site using truck and dogs.
- Use of site exit including weighbridge and wheel wash (as deemed to be required) to Figtree Drive. Heavy vehicles entering from Herb Elliot Av.
- Electricity connection works.
- Project Office Operating.

Various utility and other works out of hours at most sites.

2.2 Key Construction Activities Look Ahead

- Ongoing activities as described above. Various OOHWs (subject to approvals) relating to services; road signs and signals, hoarding installation etc at many sites. Activities such as site investigations; utilities related works and site establishment.
- TBM water supply works in Rozelle in the Crescent and other roads.

2.3 ER Inspections

There were five ER inspections conducted by the ER on each Thursday in March 2023, with the Bays being inspected weekly and other sites on an alternating basis. Key issues raised during the inspections included:

The Bays:

- Various ERSED related actions
- Secondary containment for chemicals at various locations

Five Dock:

- Management of dust at the western shaft
- Maintenance and adequacy of ERSED controls at the low point of the western site



- Road repair required outside East Shaft acoustic shed exit point
- Construction vehicles parking in No Stopping zones on Great North Road and Waterview Street.

Burwood North:

- Secondary containment for chemicals
- Road repairs required on Burton and Loftus Streets
- Maintenance and adequacy of ERSED controls in area adjacent Parramatta Road
- Stabilisation of unsealed areas adjacent Parramatta Road
- The potential for noise from OOHs tunnelling operations and related activities in the shed such as crane usage without (acoustic) completion of the acoustic shed.

North Strathfield

- Nil actions raised; however, dust management and tracking of dirt are ongoing challenges.

SOP

- Nil actions raised.
- The site has high environmental standards and practices.

A number of the above actions remain open from previous reporting periods.

2.3.1 Photos



Figure 2 1 Tunnel Boring Machines being assembled in the base of the station box. (The Bays)



Figure 2 2 Placement of acoustic panelling on the Segment shed ongoing. (The Bays).

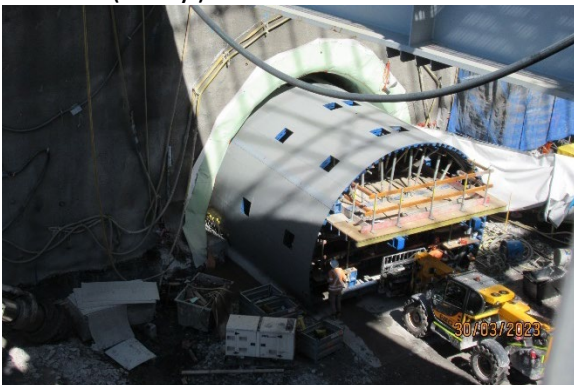


Figure 2 3 Formwork for lining of the adit to the South shaft (Burwood North).



Figure 2 4 Installation of panels for the acoustic shed ongoing. Roof to be installed (Burwood North)



Figure 2-5 Ongoing excavation of the eastern shaft and loading of trucks within the acoustic shed (Five Dock-east).



Figure 2-6 Ongoing excavation of the west shaft (FD).



Figure 2-7 Capping beam construction on the lower side of the station box at North Strathfield



Figure 2-8 Loadout of spoil from the excavation of the Station Box (SOP)

2.4 Endorsed Document/s

- OOHW 213 TBY TBM Water Supply Rev 5

2.5 Complaints

Based on a monthly Sydney Metro Complaint Registers provided for March 2023, there were 22 Complaints relating to AFJV activities reported during the month. Four of the complaints were related to the Burwood North site comprising: OOH noise (2); truck marshalling, however AFJV stated they were not their trucks (1); and haulage routes (1). Fifteen complaints at Five Dock related to: OOHWs (6), unsafe road surface (1); truck parking outside residence (1); vermin (1); worker behaviour (1); light spill and reflection (2); dust (2); safety with traffic management (1). One complaint was received at North Strathfield related to state of temporary footpath. Two complaints were reported for the TBW water supply works at the Bays.

2.6 Compliance

2.6.1 Incidents

No incidents considered to represent Incidents as defined under the Project Approval were reported to or observed by the ER.

The following incident reports were issued to the ER under the SM Incident Reporting System:



- EI026: Diesel spill at the Bays. This incident was reported in the previous monthly report.
- EI027: Chemical Spill at the Bays. Small spill of Curing Compound with some material passing through controls to a drain to the harbour. The report indicated that a small amount of discoloured water adjacent to the shoreline of White Bay was observed. The EPA were notified of the spill.
- EI028: Two hydrocarbon spill at Five Dock. AFJV reported appropriate clean-up of the spills.

2.6.2 Non-compliance and Potential Non Compliance

The following Non-Compliance Reports were provided to the ER for the reporting period:

- NCR 016: Five Dock Haulage Routes. AFJV reported a subcontractor used an unapproved route in the vicinity of the Five Dock site. This was understood to have been identified through a residents complaint.

As indicated above, OOHs tunnelling has commenced at Burwood North for the cross over cavern. This activity requires the use of an overhead crane with a high-pitched movement alarm positioned high up on the crane; scrubbers and ventilation fans at the base of the station box; and general support activities inside the shed. The shed had not been acoustically sealed prior to these works commencing OOHs. Further, the tunnelling DNVIS states *“Completion of the acoustic roof structure over the eastern end of station box would commence once excavation work has reached a depth of around 6m.”* Construction of the cover has not yet commenced. Given the gaps in the acoustic shed and lack of an acoustic cover over the station box, there is a potential for noise levels to exceed predicted levels. It is understood the Acoustic Advisor undertook noise measurements during the night time period at Burwood North and has requested a response and further information on this issue.

2.6.3 Audits

It is understood that the third Independent Environmental Audit (IEA) related to the CTP scope of works is still to be scheduled.

2.7 Looking Forward – Core Focus Areas

- Dust generation at all sites during dry weather
- Dirt Tracking onto roads from all sites
- Water Management and ERSED Management specifically at Burwood North, as well as generally at some of the other sites
- Noise and Vibration management at Five Dock and review of revised DNVIS submitted for the proposed case with no acoustic shed at the Five Dock West site
- OOHs at Burwood North
- Construction Parking around various sites



3 PHASE C - EXISTING RAIL CORRIDOR ENABLING WORKS

The Environmental representatives for Phase C of Sydney Metro West are:

- Greg Byrnes
- Jo Robertson

Phase C – Existing Rail Corridor Works (Brownfield Works) is being delivered by Transport for Tomorrow (TfT).

Transport for Tomorrow are not required to have an EPL for these works.

3.1 Key Construction Activities During the Period

Westmead:

- No works.

North Strathfield:

- During the WE36 (4-5th March 2023) TfT undertook utilities relocation which involved Pole 14A and 14 excavation and pole installation, 11kV install (Conduit and Joint Bay) at Pole 14, Pole 71S delivery to site with extendable semi-trailer and Bollard installations along Queen street.
- During the WE38 (18 – 19 March 2023) TfT undertook works at North Strathfield Station. The works involved the removal of poles and aerial wires along Queen Street and trenching work for 11kV tie in at Pad mount substation. This work required the closure of Queen Street, Gracemere Street, Parramatta road and the M4 motorway and power outages.

3.2 Key Construction Activities Look Ahead

Westmead:

- Remaining poles to be removed during WE40 (1-2 April 2023).

North Strathfield:

- Works completed.

3.3 ER Inspections

No ER inspections were conducted in March 2023. The site photos provided in section 3.3.1 were provided by TfT from works completed on the 18 and 19 March 2023.



3.3.1 Photos



Figure 3.1: North Strathfield Station – OH Wire removal



Figure 3.2: North Strathfield Station – Site set up

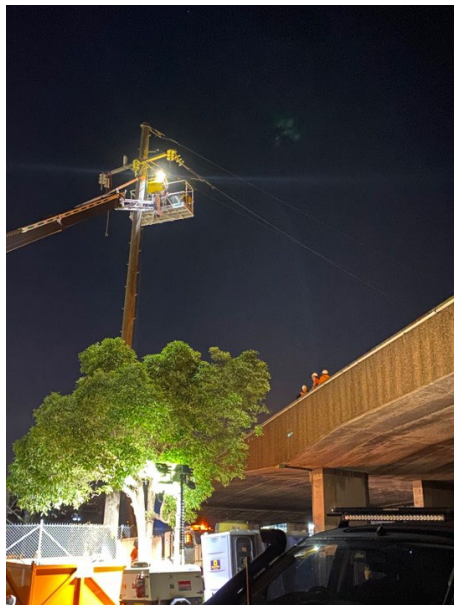


Figure 3.3: North Strathfield Station – OH Wire removal over M4



Figure 3.4: North Strathfield Station – OH Wire removal

3.4 Endorsed Documents

The following OOHW Permits were endorsed by the ER during the reporting period:

- Tft SMW Enabling Works – OOHW Permit – North Strathfield WE38 Rev B endorsed on the 17/3/2023.
- Tft SMW Enabling Works – OOHW Permit – Westmead WE40 Rev C endorsed on the 30/3/2023.

3.5 Complaints

Based on the complaints register provided to the ER, no complaints were received during the period related to the Existing Rail Corridor Enabling Works being undertaken by Tft.



3.6 Compliance

3.6.1 Incidents

No incidents were reported as per A43 of the Conditions of Approval for SSI 10038 for works conducted under the project approval during the reporting period.

3.6.2 Non-compliance

No Non-Compliance Reports (NCRs) were issued by the Contractor during the reporting period. No events were observed by the ER that were determined to represent a non-compliance.

3.6.3 Audits

No audits were conducted during the reporting period. The ER conducted Interim Compliance Review reported in October was ongoing.

3.7 Looking Forward – Core Focus Areas

The TfT project team continues to be a highly responsive team and are proactively managing their environmental compliance and approvals. Phase C works have now been completed at North Strathfield Station.

Key items moving forward continue to remain include:

- Works moving towards completion at Westmead Station in April 2023
- Implementation of the CEMP and other Construction documentation required under the SSI approval.
- Ongoing cumulative interface with AFJV and GLC at North Strathfield and Westmead, respectively.
- Management of OOH at Westmead



4 PHASE F – WESTERN TUNNELLING PACKAGE

The Environmental Representatives for Phase F of Sydney Metro West are:

- Greg Byrnes
- Swathi Gowda

Phase F – Western Tunnelling Package (WTP) is being delivered by Gamuda Australia Laing O’Rourke Consortium (GLC).

GLC are constructing this Phase of Sydney metro West under EPL 21676.

4.1 Key Construction Activities During the Period

Construction activities are continuing at multiple sites across the WTP with the excavation of the TBM Launch box at Rosehill, excavation of station box at Westmead, Piling for the Dive structure at Clyde and Diaphragm Wall preparation at Parramatta. The following activities were undertaken at the Westmead, Parramatta, Rosehill, Clyde Dive and Clyde MSF sites during March 2023:

Westmead

- Station box excavation.
- The Parramatta to Westmead HV cable conduit installation completed.
- Establishment of long-term office and facilities
- Spoil Stockpile management including storage, classification and removal from site.

Parramatta

- Archaeological investigations
- D-wall and Guide Wall preparation works.
- Shared Access Road construction.
- Weigh bridge installation and commissioning
- New site access being constructed on George Street.
- Church and Macquarie Street footpath concreting and paving.

Clyde Dive

- Haul road and pedestrian access construction, this involves earthworks and concrete pavement.
- Shaft completion and horizontal tunnelling commenced.
- Spoil management including movement around site, stockpiling, segregation and classification. Spoil is being transferred to the Clyde MSF by Moxy and crossing Unwin Street
- Acoustic shed construction.
- Piling for Dive structure (Three per day with two piling rigs).

Rosehill

- Excavation of TBM launch box.
- Spoil management including segregation, classification, and disposal. This includes the treatment of Acid Sulfate Soil.
- Temporary Water Treatment Plant operation with discharge to Duck River
- Construction of Spoil Shed continuing.
- Long term water treatment plant mobilisation and assembly.



- Wheel wash and weigh bridge commissioning
- Traffic Island removal on Colquhoun street for TMB delivery (OOHW)

Clyde MSF

- Water main and utilities trenching adjacent to the M4 recommenced after Unexpected Contamination Find Remediation completed.
- Piling for the water conveyance structure on both sides of Kay street and former Downer site.
- Spoil management including segregation, classification, and disposal, including Acid Sulfate soil treatment.
- Unexpected Find in Downer Site delineated by Epic potentially seven buried drums of hydrocarbons.

4.2 Key Construction Activities Look Ahead

The key construction activities planned for April 2023 are similar to those listed in Section 4.1.

4.3 ER Inspections

Four ER inspections were conducted in March 2023 (8/03/2023, 15/03/2023, 22/3/2023 and 29/02/2023). A total of 55.2mm (Parramatta BOM) of rain fell during March 2023 with no rainfall events triggering additional site inspections. In total 11 actions were raised across the WTP in March. The key issues were Acid Sulfate Soil (ASS) management and implementation of PESCPs.

The actions and key issues raised at the inspections were:

- **Rosehill** – The Rosehill site is being managed adequately, with spoil management especially ASS is continuing to be a focus area for GLC and the ER at the Rosehill site. Three actions were raised for Spoil management including ASS and one for parking in No Stopping zones on Unwin Street.
- **Clyde MSF** - This site is being managed well with sediment controls being the key focus area for this site. Six actions raised, two for spoil management, three for erosion and sediment controls and one for chemical storage.
- **Parramatta** – This Parramatta site is being managed well with no actions were raised.
- **Westmead** – The Westmead site is being managed well with no actions raised.
- **Clyde Dive** – This site is being managed well with sediment controls being the key focus area for this site. One action was raised for spoil and ASS management.

4.3.1 Photos



Figure 4.1: Westmead Site – Station Box excavation



Figure 4.2: Westmead site – Station box excavation and soil nail installation



Figure 4.3: Parramatta Site – Footpath restoration works



Figure 4.4: Parramatta Site – Archaeological investigations



Figure 4.5: Clyde Dive site – Piling for the Dive Structure along the ATC boundary



Figure 4.6: Clyde Dive site – Acoustic Shed



Figure 4.7: Rosehill Site – ASS treatment area with spoil bund



Figure 4.8: Rosehill Site – Treated ASS Spoil load out.



Figure 4.9: Clyde MSF Site – New Watermain being installed in the Utilities Trench



Figure 4.10 – On site Haul Road improvements required at Clyde MSF

4.4 Endorsed Documents

The following documents were endorsed by the ER during the reporting period:

- Sydney Metro West – WTP: Construction Noise and Vibration Management Plan (Rev E) endorsed on the 9/3/2023.

4.5 Complaints

Three complaints related to the WTP were provided to the ER during March 2023.

- **Westmead** – two complaints: The (17/3/2023) complaint related to noise from a vacuum truck used to install a new sign post on Hassall Street. The works were a short duration and during daytime construction hours. The ER is satisfied that that complaint has been adequately addressed. The (28/3/2023) complaint related to noise during OOH. A minor exceedance was predicted at the residence and no respite was offered. The resident was notified of the work prior.
- **Clyde MSF** - One complaint: The (8/3/2023) complaint related to mud tracking and dust on Wentworth Street. The ER raised an action for this issue on the 29/3/2023 and will follow up to ensure it is adequately closed.

4.6 Compliance

4.6.1 Incidents

No incidents considered to represent Incidents as defined under the Project Approval were reported to or observed by the ER during the reporting period.

4.6.2 Non-compliance

No Non-Compliance Reports (NCRs) were issued by the Contractor during the reporting period. No events were observed by the ER that were determined to represent a non-compliance.

4.6.3 Audits

No audits were undertaken during the reporting period.



4.7 Looking Forward – Core Focus Areas

GLC are managing their environmental risk and compliance adequately. The ER inspections and compliance monitoring focused on the implementation of Progressive Erosion and Sediment Control Plans and ASS treatment and storage.

The core focus areas for the coming month are:

- Noise management, especially at Westmead and the Clyde Dive site
- Spoil management, especially the storage and stockpiling measures
- Acid Sulfate soil storage and treatment.



5 PHASE G - EASTERN TUNNEL PACKAGE

The Sydney Metro West Eastern Tunnel Package is Stage 2 of the Sydney Metro West CSSI and is described as major civil construction works between The Bays and Sydney CBD, including station excavation at Pyrmont and Hunter Street and tunnel excavation between the Bays and Hunter Street. Stage 2 (SSI 19238057) was approved on the 24 August 2022.

The Environmental Representatives for the Sydney Metro West Eastern Tunnel Package are:

- Michael Woolley
- Greg Byrnes
- Jo Robertson

The Eastern Tunnelling Package (ETP) is being delivered by John Holland CPB Ghella Joint Venture (JCG) with the contract being awarded in November 2022.

JCG are in the process of applying for a project EPL.

5.1 Key Construction Related Activities During the Period

Low Impact Works (LIWs) continued in March 2023. On 17 March 2023 the Preliminary Construction Environmental Plan was Endorsed by the ER. On 24 March 2023 the Construction Environmental Plan was Endorsed by the ER. Works conducted during the reporting period included:

- Pre-Construction Surveys
- Investigations for the conduct of geotechnical boreholes
- Drilling of geotechnical investigation boreholes
- CCTV investigations of sewer lines
- Tree removal at Pyrmont West site
- Investigations of utilities using NDD and other techniques
- Trenching for undergrounding of electricity cables in the vicinity of Pyrmont west.
- Activities inside the Bligh Street acoustic shed including use of rock hammer to remove concrete paths and a sandstone pillar
- Deliveries of various plant and equipment in preparation for tunnelling
- Works to enable tunnelling by road header for the access declines/ventilation shafts
- Installation of survey markers and prisms for monitoring of buildings and other items.

5.2 Key Construction Activities Look Ahead

The following works are planned in April:

- Ongoing activities as was conducted for March
- Site establishment and commencement of excavation using a road header at the Bligh Street Acoustic shed for the temporary decline access tunnel
- Soft strip of some buildings
- Utility investigations and relocations
- Driveway construction
- Tree trimming and removal

5.3 ER Inspections

Two ER inspections were conducted in March 2023. On 7 March an informal (non-documented) inspection was conducted as a site familiarisation and construction awareness inspection.

The first formal ER Inspection was undertaken on 23 March 2023 covering the Hunter Street and Pyrmont sites. Activities observed included geotechnical drilling; utility investigations; trenching; and tree removal. There was no access inside the Bligh Street acoustic shed due to restrictions by the JCG contractor and their induction requirements. One action was raised during the inspection regarding signage for footpath closures due to utilities investigation works at Pyrmont East.

5.3.1 Photos



Figure 5 1 Pyrmont West: Undergrounding of electrical cables on Paternoster Row



Figure 5 2 Pyrmont West: Undergrounding of electrical cables on Paternoster Row



Figure 5 3 Pyrmont West: Tree removal along Pyrmont Bridge Road



Figure 5 4 Pyrmont East: Utility Investigations



Figure 5 5 Geotechnical Borehole drilling; Chifley Square



Figure 5 6 Hunter Street East: Works within the acoustic shed

5.4 Endorsed document/s

The following documents were endorsed by the ER during the reporting period:

- Construction Environmental Management Plan (CEMP) Rev 0
- Pre-liminary Construction Environmental Management Plan (PCEMP) Rev 0
- Air Quality Management Plan Rev 0
- Waste Management Plan Rev 0
- Visual Amenity Management Plan (VAMP) Rev 0



- Flora and Fauna Management Plan Rev 0
- Soil and Water Management Plan and Monitoring Plan Rev 0

In accordance with CoA A32(d)iii the written statements endorsing the above documents are provided in Appendix A.

5.5 Complaints

Two complaints related to the ETP were reported to the ER during March 2023. One related to wash water impacting a private garage and vehicle. A second complaint related to property damage.

5.6 Compliance

5.6.1 Incidents

No incidents were reported to the ER under the SM Incident Reporting System.

5.6.2 Non-compliance

No Non-compliances occurred during the reporting period related to ETP works.

5.6.3 Audits

No audits were undertaken during the reporting period.

5.7 Looking Forward – Core Focus Areas

In April 2023, the ER Team will be focused on the monitoring of construction activities and finalising reviews on other documentation as provided.



6 SYDNEY METRO RETAINED OBLIGATIONS AND OTHER ACTIVITY

The Environmental Representatives for the Sydney Metro Retained Obligations and other Activities are:

- Jo Robertson
- Greg Byrnes

The Sydney Metro Retained Obligations and other Activities is being delivered by Sydney Metro with various sub-contractors delivering the works. These works do not require an EPL.

6.1 Key Construction Activities During the Period

The ER is not aware for other Sydney Metro managed construction activities during the period.

6.2 Key Construction Activities Look Ahead

The ER is not aware for other Sydney Metro managed construction activities during the period.

6.3 ER Inspections

There were no ER inspections of this work during the reporting period.

6.3.1 Photos

None

6.4 Endorsed Document/s

No Sydney Metro documents were endorsed during the reporting period.

6.5 Complaints

No complaints have been reported to the ER in relation to the investigations previously conducted for Sydney Metro.

6.6 Compliance

6.6.1 Incidents

No incidents have been reported to the ER in relation to the investigations previously conducted for Sydney Metro.

6.6.2 Non-compliance

No non compliances have been reported to the ER in relation to the investigations previously conducted for Sydney Metro.

6.6.3 Audits

No audits were conducted during the reporting period.



6.7 Looking Forward – Core Focus Areas

A risk workshop is held monthly with the ERs and the Sydney Metro Environment team to discuss contractor performance, environmental risk and identify key focus areas for the upcoming month. This process is continuing.



7 STATEMENT OF LIMITATIONS

Healthy Buildings International (HBI) has prepared this report in accordance with the requirements of Condition A30(k) of the Sydney Metro West, Concept and Stage 1 SSI 10038 Approval (11 March 2021), and Condition A32(k) of the Sydney Metro West – The Bays to Sydney CBD SSI 19238057 Approval (24 August 2022).

The report is for the sole purposes of Department of Planning and Environment (DPE) 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.

Where the Report indicates that information has been provided to HBI by third parties, HBI assumes no liability for any inaccuracies in or omissions to that information.

This Report was prepared based on the conditions encountered and information reviewed at this time. HBI disclaims responsibility for any changes that may have occurred after this time.

This Report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. This Report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

Except as required by law, no third party may use or rely on this Report unless otherwise agreed by HBI in writing. Except as specifically stated in this section, HBI does not authorise the use or findings of this Report by any third party

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HBI Healthy Buildings International Pty Ltd

8 APPENDIX A – ER DOCUMENT ENDORSEMENT RECORDS

Mr Ben Armstrong
Director Sustainability, Environment and Planning
Metro West
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

23 March 2023

REF: 201208 (G) CEMP_Rev 0

Dear Ben

RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Construction Environmental Management Plan (Rev 0)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 19238057) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Construction Environmental Management Plan Rev 0 dated 16 March 2023 (SMWSTETP-JCG-SWD-SW000-EN-PLN-002018).

It is noted that:

- The Construction Environmental Management Plan (CEMP) has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1 of the Infrastructure Approval.
- The CEMP addresses Phases G1 and G2 as detailed in the Sydney Metro West Stage 2 - Phasing Report.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document and have closed out all comments on the document.
- The development of the Sub-Plans, as developed for Phase G2 in the Sydney Metro West Stage 2 Phasing report, are well progressed, with all plans submitted for ER Endorsement and selected plans as required with DPE for Approval. The development of these Plans has included consultation as is relevant to these plans under Condition C5.

Following the above reviews, the document is considered to be consistent with the Conditions of Approval (SSI 19238057) in relation to the construction works as defined in the Sydney Metro West Stage 2 - Phasing Report.

As the approved Environmental Representative for the Sydney Metro West project and as required by Conditions A32(d) and C3, on the basis of the above, the Construction Environmental Management Plan (Revision 0) is endorsed.

Yours sincerely

Michael Woolley

Michael Woolley

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package
CC: Ari Stypel and Matthew Murrinan.

www.hbi.com.au

Mr Ben Armstrong
Director Sustainability, Environment and Planning
Metro West
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

17 March 2023

REF: 201208 (G) PCEMP_Rev 0

Dear Ben

RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Preliminary Construction Environmental Management Plan (Rev 0)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 19238057) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Preliminary Construction Environmental Management Plan Rev 0 dated 16 March 2023 (SMWSTETP-JCG-SWD-SW000-EN-PLN-002017).

It is noted that:

- The Preliminary Construction Environmental Management Plan (PCEMP) has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1 of the Infrastructure Approval.
- The PCEMP addresses Phase G1 as detailed in the Sydney Metro West Stage 2 - Phasing Report.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.
- The development of the Construction Environmental Management Plan and Sub-Plans, as developed for Phase G2 in the Sydney Metro West Stage 2 Phasing report, are well progressed, with all plans submitted for ER Endorsement and selected plans as required with DPE for Approval. The development of these Plans has included consultation as is relevant to these plans under Condition C5.

Following the above reviews, the document is considered to be consistent with the Conditions of Approval (SSI 19238057) in relation to the preliminary construction works as defined in the Sydney Metro West Stage 2 - Phasing Report.

As the approved Environmental Representative for the Sydney Metro West project and as required by Conditions A32(d) and C3, on the basis of the above, the Preliminary Construction Environmental Management Plan (Revision 0) is endorsed.

Yours sincerely



Michael Woolley

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package
CC: Ari Stypel and Matthew Marrinan.

Mr Ben Armstrong
Director Sustainability, Environment and Planning
Metro West
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

23 March 2023

REF: 201208 (G) FFMP_Rev 0

Dear Ben

RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Flora and Fauna Management Sub-Plan (Rev 0)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 and C5 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 19238057) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Flora and Fauna Management Sub-Plan Rev 0 dated 22 March 2023 (SMWSTETP-JCG-SWD-SW000-EM-PLN-002016).

It is noted that:

- The Flora and Fauna Management Plan (FFMP Rev 0) has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1, C5(b) and C11 of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.
- In accordance with CoA C5(b), consultation has been undertaken with DPE Environment and Heritage Group, DPI Fisheries, and Relevant Council(s).

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 19238057) in relation to the Flora and Fauna Management sub-Plan.

As the approved Environmental Representative for the Sydney Metro West and as required by Conditions A32(d) and C8, on the basis of the above, the Flora and Fauna Management Sub-Plan (Revision 0) is endorsed.

Yours sincerely

Greg Byrnes

Greg Byrnes

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package
CC: Ari Stypel and Matthew Marrinan.

Mr Ben Armstrong
Director Sustainability, Environment and Planning
Metro West
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

24 March 2023

REF: 201208 (G) SWMP_Rev 0

Dear Ben

RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Soil and Water Management Sub-Plan (Rev 0)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 and C5 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 19238057) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Soil and Water Management Sub-Plan Rev 0 dated 22 March 2023 (SMWSTETP-JCG-SWD-SW000-EM-PLN-002014).

It is noted that:

- The Soil and Water Management sub Plan (SWMP Rev 0) which includes the Surface Water Quality Monitoring Program and Groundwater Monitoring Program has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1, C5(e), C13, C14(b), C14(c), C15 and C17 of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER and Sydney Metro.
- In accordance with CoA C5(e), consultation has been undertaken for the SWMP with DPE Water and Relevant Council(s).
- In accordance with C14(b) consultation has been undertaken for the Surface Water Monitoring Program with the DPE Water, Relevant Council(s) and Sydney Water.
- In accordance with C14(c) consultation has been undertaken for the Groundwater Monitoring Program with the DPE Water.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 19238057) in relation to the Soil and Water Management sub-Plan and Monitoring Programs.

As the approved Environmental Representative for the Sydney Metro West and as required by Conditions A32(d), C8 and C19 on the basis of the above, the Soil and Water Management Sub-Plan (Revision 0) which includes the Surface Water Quality Monitoring Program and Groundwater Monitoring Program is endorsed.

Yours sincerely



Greg Byrnes

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package
CC: Ari Stypel and Matthew Marrinan.

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Mr Ben Armstrong
Director Sustainability, Environment and Planning
Metro West
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

24 March 2023

REF: 201208 (G) VAMP_Rev 0

Dear Ben

RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Visual Amenity Management Sub-Plan (Rev 0)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 19238057) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Visual Amenity Management Sub-Plan Rev 0 dated 24 March 2023 (SMWSTETP-JCG-SWD-SW000-EN-PLN-002027).

It is noted that:

- The Visual Amenity Management Plan (VAMP Rev 0) has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1 of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 19238057) in relation to the Visual Amenity Management Sub-Plan.

As the approved Environmental Representative for the Sydney Metro West and as required by Conditions A32(d) and C8, on the basis of the above, the Visual Amenity Management Sub-Plan (Revision 0) is endorsed.

Yours sincerely

Michael Woolley

Michael Woolley

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package
CC: Ari Stypel and Matthew Murrinan.



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Mr Ben Armstrong
Director Sustainability, Environment and Planning
Metro West
Sydney Metro
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PO Box K659
HAYMARKET NSW 1240

23 March 2023

REF: 201208 (G) AQMP_Rev 0

Dear Ben

RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Air Quality Management Sub-Plan (Rev 0)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 19238057) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Air Quality Management Sub-Plan Rev 0 dated 22 March 2023 (SMWSTETP-JCG-SWD-SW000-EM-PLN-002018).

It is noted that:

- The Air Quality Management Plan (AQMP Rev 0) has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1 of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 19238057) in relation to the Air Quality Management Sub-Plan.

As the approved Environmental Representative for the Sydney Metro West and as required by Conditions A32(d) and C8, on the basis of the above, the Air Quality Management Sub-Plan (Revision 0) is endorsed.

Yours sincerely

Michael Woolley

Michael Woolley

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package
CC: Ari Stypel and Matthew Murrinan.

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Mr Ben Armstrong
Director Sustainability, Environment and Planning
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23 March 2023

REF: 201208 (G) WMP_Rev 0

Dear Ben

RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Waste Management Sub-Plan (Rev 0)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 19238057) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Waste Management Sub-Plan Rev 0 dated 22 March 2023 (SMWSTETP-JCG-SWD-SW000-EM-PLN-002022).

It is noted that:

- The Waste Management Plan (WMP Rev 0) has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1 of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 19238057) in relation to the Waste Management Sub-Plan.

As the approved Environmental Representative for the Sydney Metro West and as required by Conditions A32(d) and C8, on the basis of the above, the Waste Management Sub-Plan (Revision 0) is endorsed.

Yours sincerely

Michael Woolley

Michael Woolley

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package
CC: Ari Stypel and Matthew Murrinan.