



HBI

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o

Ms [REDACTED]  
Compliance Officer– Government Projects  
Department of Planning Industry and Environment  
Locked Bag 5022  
PARRAMATTA NSW 2124

7 December 2022

Ref: 201209-ER\_DPIE-November 2022

Dear [REDACTED],

**RE: Sydney Metro - Sydney Metro Western Sydney Airport SSI 10051 – ER Monthly Report for November 2022**

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

- Condition A32 (k) of the Sydney Metro Western Sydney Airport, SSI 10051 Approval (23 July 2021)

The attached summary details the key activities undertaken by Environmental Representatives for Sydney Metro Western Sydney Airport for the month of November 2022.

Yours sincerely

[REDACTED]

[REDACTED]  
Environmental Representative

Cc:

Sydney Metro: [REDACTED]  
DPIE: Major Projects Portal

Enclosed: ER Endorsement of SBT CEMP R2.0 200922

Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Advanced and Enabling Works (AEW)	[REDACTED]

**Key Construction Activities During the Period**

**St Marys Station Lift Relocation:**

- New lift shaft was commissioned
- The old lift shaft was demolished
- Paving was completed using a combination of new and retained pavers
- Landscaping activities were completed

**Key Construction Activities Look Ahead**

The Construction activities planned for the upcoming period for the Advanced Enabling Works (AEW) comprise of:

- St Marys Station Lift Relocation
  - Site demobilisation
  - Defect works

**ER Inspections**

There were two ER Inspections (conducted by [REDACTED] in November 2022 (ER inspections are on a fortnightly cycle weather and health permitting):

- 03/11/2022 - Key points/ issues raised during this inspection were as follows:
  - Existing stormwater pipes from gutters needed to be directed into stormwater pits to prevent flooding of the site
  - Care needed to be taken when operating machines on existing brick pavers to prevent inadvertent damage
  - The retained fig tree needs to be maintained by Sydney Trains on behalf of TAHE
- 17/11/2022 - Key points/ issues raised during this inspection were as follows:
  - An EWP was observed extended into the branches of existing trees, plant needs be kept clear of retained vegetation to prevent damage.
  - Drains in completed areas needed to be cleaned out, rubbish disposed of and controls removed to allow drainage to work as designed.
  - Controls such as tree protection and spill kits needed to remain in place until the project is completed and plant has been removed from the site.

**Photos**



St Marys lift relocation – Stormwater from roof of the existing structures to be directed into live stormwater drainage lines



St Marys lift relocation – Concrete broken out was sent to concrete recyclers



St Marys lift relocation – New lift shaft installed and operational



St Marys lift relocation – New lift shaft installed and operational



St Marys lift relocation – The old lift shaft has been demolished



St Marys lift relocation – Care needed to be taken when parking equipment so it doesn't damage retained trees



St Marys lift relocation – Tree protection has been installed and should remain until final works have been completed



St Marys lift relocation - Landscaping commenced with planting of turf. The contractor to maintain this until project handover

**Endorsed Document/s**

The following documents were endorsed/approved by the ER [REDACTED]

- Nil this period

The following documents were provided for information or reviewed with comments provided to Sydney Metro.

- Sydney Metro - Western Sydney Airport Advanced and Enabling Works Site Establishment Management Plan, St Marys SSTOM Project Office (SPO) (Rev A)
- Sydney Metro - Western Sydney Airport Advanced and Enabling Works, Footbridge St Marys - Construction Environmental Management Plan (Rev B)
- Sydney Metro - Western Sydney Airport Advanced and Enabling Works, Footbridge St Marys Detailed Noise and Vibration Impact Statement (Rev 1).

**Complaints / Incidents / Non-compliance**

No non-compliances or incidents were reported to the ER for the Period:

One (1) complaint was received during the period:

- 30/11/22 (11:18) – Business at 8 Harris Street, St Marys complained claiming damage to their property due to use of vibratory roller by Advanced Enabling Works (AEW) Transport for Tomorrow (T4T) contractors. Upon investigation Sydney Metro responded via email to stakeholder to advise that vibration monitoring indicated that T4T work would not have caused structural damage to their property. Follow up meeting to occur w/c 5 Dec. Impossible to determine from register to which AEW package the works related

**Audits (specific to packages reported in this report)**

- Nil this period

**Looking Forward – Core Focus Areas**

Review Site Establishment Management Plan, St Marys SSTOM Project Office (SPO) and Footbridge St Marys - Construction Environmental Management Plan ensuring consistency with other AEW plans.



**ER Closing Comments:** The St Marys Lift and Stairs is almost complete with only defect works to be undertaken. The area has been opened to the public and the new lift is fully operational. There should be no future environmental risks associated with this package of works.

The TBI is undertaking a survey of failed pavement and may have to undertake remedial works in the coming months.

Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Station Boxes and Tunnelling (SBT)	[REDACTED]

**Key Construction Activities During the Period**

- Saint Marys:
  - Continue Establish ERSED Controls, hoardings fences and barricading
  - Preparation of piling pad at western portion
  - Commenced piling in the east
  - Commenced pile blinding and pile breakback in the east
  - Soil nails, shotcrete of southern embankment ongoing with central area completed
  - Access road between Station St and Phillip St along former Station Plaza eastern boundary.
  - FRP for water treatment plant slab on northern boundary of former Station Plaza
- Claremont Meadows Services Facility:
  - Completed establishment of offices and amenities
  - Installation of hoarding (completed)
  - Site establishment; sediment basins, site access roads and car parking
  - Fit out of training centre completed
  - Piling completed with pile blinding and break back underway
  - Construction and Installation of water treatment plant
- Orchard Hills:
  - Topsoil stripping (ongoing)
  - Continue establish ERSED Controls, hoardings fences and barricading permanent compound
  - Establishment of segment storage area near completion
  - Preparation of piling pad north completed
  - Commenced piling in the north
  - Piling pad south preparation underway at Lansdowne Rd.
  - Lansdowne Rd. diversion works completed
  - Vegetation Clearing completed
  - Kent St drainage channel improvements
- Aerotropolis :
  - DSI and RAP completed
  - Fencing, and ERSED controls installation ongoing
  - Carpark Construction
  - Construction of piling pad and topsoil stripping within low risk area completed
  - Establishment of site offices amenities and carpark
  - Piling commenced.
- Bringelly Services Facility :
  - ERSED controls installation
  - Stockpiling of spoil and asbestos containing soils.
  - Completed piling pads
  - Piling ongoing
  - Completed water treatment plant slab and commenced installation

**Key Construction Activities Look Ahead**

- Saint Marys:
  - Complete establishment of construction offices and parking area
  - Continue Establish ERSED Controls, hoardings fences and barricading
  - Complete soil nails, shotcrete of southern embankment to the west
  - Commence piling at central western portion
  - Continue blinding and pile break-back east to west



- Commence capping beam construction at the east.
- Claremont Meadows Services Facility:
  - Continue carparking and internal road construction.
  - Construct capping beam
  - Commission Water Treatment Plant
- Orchard Hills:
  - Continue ERSED controls installation
  - Complete topsoil stripping
  - Dewatering of onsite dams
  - Establishment of permanent site offices, amenities and permanent site accesses
  - Construct hardstand for roads and roads
  - Commence tunnel precast segment delivery
  - Continue piling, blinding and pile breakback in the north
  - Start capping beam construction in the North
  - Complete piling pad a Landsdowne Rd and commence piling
- Aerotropolis :
  - Complete establishment of site offices and amenities, and internal access roads.
  - Fencing, and ERSED controls installation
  - Cut to fill continuing in to area identified as moderate risk by the DSI
  - Piling pad preparation in DSI moderate risk area.
  - Commence piling in moderate risk areas
- Bringelly Services Facility :
  - Complete ERSED controls installation
  - Complete piling
  - Commence pile blinding and break-back
  - Install Water Treatment Plant

#### ER Inspections

There were two (2) ER Inspections conducted by [REDACTED] in November 2022 (ER inspections are on a fortnightly cycle weather and health permitting).

- ER 10/11/2022 - Key points/ issues raised during this inspection were as follows:
  - At St Marys - Rail corridor access gate at bottom of access ramp from Glossop St. CPBG provide updated ESCP for St Marys and investigate options like a roll over berm/hump, to ensure dirty stormwater from ramp does not enter the corridor.
  - At St Marys - Sediment basin in Station Plaza area requires a level gauge in accordance with the "Blue Book" and emptying within 5 days of last rain.
  - At Claremont Meadows - Drainage rut between the water treatment plant and the switchboard pad to the east bypasses the sediment fence at the boundary. CPBG to fill rut and install sediment fence appropriately.
  - At Claremont Meadows - Sediment basins require level gauges in accordance with the "Blue Book" and emptying within 5 days of last rain event.
  - At Bringelly - Concrete fines laden supernatant liquid from concrete washout trays was discharged into the dirty water swale along northern boundary. This practice should be stopped, swales should be cleaned immediately and incident report prepared outlining preventative measures.
- 24/11/2022 - Key points/ issues raised during this inspection were as follows:
  - At Claremont Meadows –Soils and sediment in the main central swale should be removed and stockpiles pulled away, stabilised, and sediment fence placed at the toe
  - At St Marys - Sediment accumulations in the northwest corner of Gidley St should be removed periodically to prevent sediment transport to the TBI drainage system.
  - Rail corridor access gate at bottom of access ramp from Glossop St. CPBG provide updated ESCP for St Marys and investigate options like a roll over berm/hump, to ensure dirty stormwater from ramp does not enter the corridor.
  - At Orchard Hills in general - dust mitigation measures require improvements.
  - At Orchard Hills in general - Adequate signage required along PCT areas boundaries.



**Photos**



**Orchard Hills north Kent Rd Access – Tracking indicated additional stabilised surface and rumble grid required**



**Orchard Hills north – Pile blinding and break- back. A hydraulic pile crossing ring is being used, reducing noise**



**Orchard Hills – PCT segregation bunting requires appropriate signage**



**Orchard hills– view south at works South of Lansdowne Rd . Dust mitigation measures require improvements**



**St Marys view from Station St: Public access road along east of former Plaza, from Station street to Phillip St.**



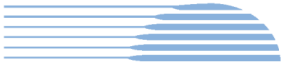
**St Marys – Looking west along Station St.**



**St Marys looking south east to Station Plaza – Water cart in action.**



**St Marys looking south west at Station plaza– Water Treatment Plant slab construction.**



**St Marys - View east from Station street at former Station Plaza.**



**Claremont Meadows southern access - southern access includes wheel wash depression.**



**Claremont Meadows – Water Treatment Plant southern elevation**



**Claremont Meadows view west – shaft pilling and blinding complete with break-back underway**



**Bringelly Services Facility – Swale along Northern Boundary concrete fines discharged into swale**



**Bringelly Services Facility – View south west of shaft pilling**



**Aerotropolis : View north east to pilling pad and compound construction beyond.**



**Aerotropolis : View south west from compound to low risk area pilling pad.**

<b>Endorsed Document/s</b>
<p>No documents were endorsed by the ER.</p> <p>The following documents were provided for information:</p> <ul style="list-style-type: none"> <li>▪ Orchard Hills DSI</li> <li>▪ Aerotropolis DSI and RAP</li> <li>▪ Aerotropolis Site Audit Report</li> <li>▪ Orchard Hill DNVIS</li> <li>▪ St Marys DNVIS</li> <li>▪ Water discharge Impact Assessment</li> </ul>
<b>Complaints / Incidents / Non-compliance</b>
<p>One (1) Non-compliances was identified by or reported to the ER this period.</p> <ul style="list-style-type: none"> <li>▪ 25/10/2022 – Condition E38 - Due to an unexpectedly heavy rainfall event on the afternoon of 25 October 2022, a concrete pour was not completed within standard construction hours per Condition E38. CPBG have applied for a variation to their EPL to permit concrete works to occur outside of standard construction hours.</li> </ul> <p>Nil incidents of note were reported to the ER this period.</p> <p>Six (6) complaints were reported to the ER:</p> <ul style="list-style-type: none"> <li>▪ 1/11/2022 – Stakeholder expressed dissatisfaction with vehicles doing U-turns in front of his property near the intersection of Lansdowne and Samuel Marsden Roads. CPBG moved traffic control to be stationed at the intersection of Lansdowne and Samuel Marsden Roads to prevent any vehicles doing U-turns.</li> <li>▪ 15/11/2022 – Complaint through council by stakeholder unhappy with condition of Kent Road, dust and muddy surface. Informed stakeholder of measures in place to reduce mud tracking on Kent and surrounding roads. CPBG indicated that they Informed stakeholder of measures in place to reduce mud tracking on Kent and surrounding roads, including large aggregate placed at all site egress points including a rumble grid installation at the site entry/exit, and that Regular site inspections take place to ensure compliance. Stakeholder satisfied with response and outcome.</li> <li>▪ 16/11/2022 – Complaint regarding plant travelling along Kent Road to enter site via Lansdowne. Stakeholder enquired as to plant allowed to travel along public roads. Upon investigation, stakeholder was provided information regarding plant and missing conditional number plate. Thanked stakeholder for providing feedback. Then number plate has been recovered and re-installed.</li> <li>▪ 16/11/2022 – Stakeholder complained that trucks coming from the site are tracking mud all through the streets, caller is having to wash their 3 cars every day, today was one of their childrens formals and the care that came to pick them up was filthy before it left the street. Caller advised there should be a Tyre wash at the site gates before they enter public roads. CPBG indicated that they Informed stakeholder of measures in place to reduce mud tracking on Kent and surrounding roads, including large aggregate placed at all site egress points including a rumble grid installation at the site entry/exit, that a third water cart was to commence 17/11/2022 and project in final stages of road works, which will seal a lot of the current exposed ground.</li> <li>▪ 18/11/2022 – Stakeholder complained that their property developed structural issues due to tunnel excavation works, and requested Sydney Metro advise what steps have been taken to prevent damage to nearby properties. Caller advised there should be a Tyre wash at the site gates before they enter public roads. No close-out information received in relation to this complaint.</li> <li>▪ 28/11/2022 – Stakeholder complained that the truck that the water cart on Kent Road is making their car incredibly dirty in a short period of time, and that the sweeper is not following the water cart until a long while later. Complainant requested that the use of the water cart be reduced as the road is not so bad to require the use of the water cart at the rate it is currently being used.. . CPBG indicated that they Informed stakeholder that hat larger aggregate has been placed at all site egress points and a rumble grid installed at the sites most active egress point which will assist with the potential for any debris on vehicles leaving site. Final stages of road works will seal a lot of the current exposed ground. Complainant apparently satisfied with response, however requested additional information regarding the daily movements of the water cart.</li> </ul>
<b>Audits (specific to packages reported in this report)</b>
<p>No audits were conducted during the reporting period.</p>





Looking Forward – Core Focus Areas
<p>Compliance with CoA E128</p> <p><b>ER Closing Comments:</b> As evidenced by various complaints and ER observations, Environmental performance in relation to ERSED control requires greater attention, including to revision and implementation of Erosion and Sediment Control plans. Project reasonably responsive to queries and recommendations made by the ER but there is room for improvement.</p>

Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Surface and Civil Alignment Works (SCAW)	[REDACTED]

Key Construction Activities During the Period
<ul style="list-style-type: none"> <li>▪ Patons Lane:               <ul style="list-style-type: none"> <li>○ Works continued on the all-weather access track from Patons Lane to the SMF</li> <li>○ The compound area at Patons Lane was filled and a sandstone layer was applied ahead of being finished with hot mix</li> <li>○ The farm dam near the Patons Lane compound was dewatered</li> <li>○ Clean and dirty water drainage was constructed around the Patons Lane compound area and haul road</li> <li>○ Additional sediment basins are being investigated in the vicinity of the Patons Lane compound area</li> </ul> </li> <li>▪ Stabling and Maintenance Facility (SMF) Orchard Hills:               <ul style="list-style-type: none"> <li>○ Drainage lines were constructed around the SMF</li> <li>○ The main basin is being constructed at the northern end of the SMF</li> <li>○ Material is being stockpiled in stockpiles one and two of the SMF</li> </ul> </li> <li>▪ Celestino Property               <ul style="list-style-type: none"> <li>○ Geotechnical investigations continued</li> </ul> </li> <li>▪ Cosgroves Creek:               <ul style="list-style-type: none"> <li>○ Two scar trees were identified on the banks of Cosgroves Creek</li> <li>○ Ecological surveys identified potential microbat habitat in existing concrete panels</li> </ul> </li> <li>▪ Elizabeth Drive:               <ul style="list-style-type: none"> <li>○ Earthworks continued for the site compound and haul roads</li> <li>○ Draw down of water from farm dams to allow DSI sampling in AEC 42</li> <li>○ Filling activities from Elizabeth Drive / Badgerys Creek stub road</li> </ul> </li> </ul>

Key Construction Activities Look Ahead
<ul style="list-style-type: none"> <li>▪ Patons Lane:               <ul style="list-style-type: none"> <li>○ The site compound will be completed</li> <li>○ The main entry / exit point will be established</li> <li>○ Sandstone will continue to be brought to this part of the project</li> <li>○ The haul roads will continue to be constructed</li> <li>○ Diversion drains will be formalised with scour protection added at concentrated flow paths</li> <li>○ Fencing activities will continue</li> </ul> </li> <li>▪ SMF:               <ul style="list-style-type: none"> <li>○ Site won material will continue to be stockpiled at the SMF</li> <li>○ Top soil stripping of the SMF</li> <li>○ The main sediment basin will be constructed</li> <li>○ Drainage controls will be installed directing site water to the sediment basin</li> <li>○ Material will continue to be stockpiled in stockpile areas 1 and 2</li> </ul> </li> <li>▪ Celestino Property:               <ul style="list-style-type: none"> <li>○ Geotechnical investigations will continue at the Celestino property</li> </ul> </li> <li>▪ Cosgroves Creek</li> </ul>



- Ecological and heritage investigations will continue
- Elizabeth Drive:
  - Earthworks continue for the site compound and haul roads
  - Draw down of water from farm dams to allow DSI sampling in AEC 42
  - A track from Elizabeth Drive / Badgerys Creek stub road will be constructed
  - Drainage lines will be constructed
  - Topsoil and seed will be applied to long term bunds and windrows

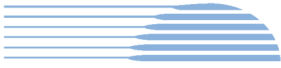
**ER Inspections**

There were two ER Inspections (conducted by the [REDACTED] in November 2022 (ER inspections are on a fortnightly cycle weather and health permitting).

- 03/11/2022 (By [REDACTED] - Key points/ issues raised during this inspection were as follows:
  - Minor amounts rubbish was observed at Patons Lane.
  - The temporary signage at the haul road exit at Patons Lane did not have the SSI details or the contact detail as per A47.
  - Erosion and sediment controls were progressively revised with input from site supervision, this is good practice.
  - DSIs are being progressively completed, the ER requested a regular progress status and planning meeting regarding DSI management.
- ER 17/11/2022 (By [REDACTED] - Key points/ issues raised during this inspection were as follows:
  - There was a focus on stabilisation and capturing site run off for reuse in construction activities
  - Two potential scar trees were further investigated by the heritage consultant
  - Potential microbat habitat was further investigated by the project ecologist
  - An unexpected potential heritage find at the Elizabeth Drive compound site had further investigation by the archaeologist
  - Sampling in AEC 42 was undertaken as the dam levels are being drawn down.

**Photos**

<p>Patons Lane – Nest boxes were installed in retained trees</p>	<p>Patons Lane – Sandstone was brought in to construct all weather access roads</p>
<p>Patons Lane – The compound site filled with site won material sloping towards ERSED controls</p>	<p>Patons Lane – Imported Sandstone used for Patons Lane compound. Once final, area will be sealed</p>



**SMF - Windrows formed on the perimeter of haul road , acting as dirty and clean water diversions**



**SMF - Works commenced on the large sediment basin on the northern end of the SMF**



**Cosgroves Creek - Two potential scar trees identified and investigated by the project's heritage consultant**



**Cosgroves Creek - The second scar tree is not as obvious**



**Cosgroves Creek - Potential microbat habitat in concrete panels has been identified by the project ecologist**



**Elizabeth Drive - Potential unexpected heritage find was identified by the archaeologist as part of Sydney Uni water experiment and can be removed**



**Elizabeth Drive - The farm dam in AEC 42 is being progressively drawn down to allow sampling for the DSI**



**Elizabeth Drive - The single dead tree from the compound site was felled but is too rotten – likely not usable**

<b>Endorsed Document/s</b>
<p>The following documents were endorsed by the ER:</p> <ul style="list-style-type: none"> <li>▪ Nil this period</li> </ul> <p>The following documents were provided for information or reviewed:</p> <ul style="list-style-type: none"> <li>▪ Detailed Site Investigation – Area of Environmental Concern 34</li> <li>▪ Detailed Site Investigation – Areas of Environmental Concern 41 &amp; 42</li> </ul>
<b>Complaints / Incidents / Non-compliance</b>
Nil complaints received during the period.
<b>Audits (specific to packages reported in this report)</b>
No audits were conducted during the reporting period.
<b>Looking Forward – Core Focus Areas</b>
<p>The project has moved into the earthworks phase which sees erosion and sediment control become a significant risk. So far the project has engaged a soil conservationist to update the Progressive Erosion and Sediment Control Plans. A core focus for the project is to ensure appropriate erosion and sediment controls are installed prior to breaking new ground or as levels change.</p> <p><b>ER Closing Comments:</b> So far the project has adopted a systematic approach to completing DSIs. Construction program and competing interests could impact upon DSI completion and as a result the ER has requested a fortnightly DSI meeting to ensure DSIs are completed effectively and prior to works commencing in the associated AEC.</p> <p>With the movement of material between sites due to commence a core focus area will be on A46, E103 and E104.</p>

### Statement of Limitations

Healthy Buildings International (HBI) has prepared this report in accordance with the requirements of Condition A32 (k) of the Sydney Metro Western Sydney Airport, Concept and Stage 1 SSI 10051 Approval (23 July 2021). 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.

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.

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