

Ms Alex McGuirk
Compliance Officer– Government Projects
Department of Planning Industry and Environment
Locked Bag 5022
PARRAMATTA NSW 2124

7 February 2023
Ref: 201209-ER_DPIE-January 2022

Dear Alex,

RE: Sydney Metro - Sydney Metro Western Sydney Airport SSI 10051 – ER Monthly Report for January 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 January 2022.

Yours sincerely



Rui Henriques
Environmental Representative

Cc:
Sydney Metro: Hugh Chapman, David Virtue, Andrew Smith, Tim Solomon, Foster Walker
DPIE: Major Projects Portal

Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Advanced and Enabling Works (AEW)	Rui Henriques/Alex Gale/Jo Robertson
Key Construction Activities During the Period	
<ul style="list-style-type: none"> ▪ No works were undertaken as part of the Advanced and Enabling Works (AEW) during January 2023 	
Key Construction Activities Look Ahead	
<p>The Construction activities planned for the upcoming period for the Advanced Enabling Works (AEW) comprise of:</p> <ul style="list-style-type: none"> ▪ Integrated Project Office (IPO): <ul style="list-style-type: none"> ○ Mobilisation to site ○ Installation of fencing ○ Geotechnical investigations ○ Utility installation and relocation. ▪ TBI: <ul style="list-style-type: none"> ○ Station/Queen St Road pavement defects rectification works (Out of Hours) 	
ER Inspections	
<p>No ER inspections were undertaken during January 2023 as either all AEW projects are complete or the remaining two, Integrated Project Office (IPO) and the Footbridge at St Marys are yet to commence.</p>	
Photos	
NA	
Endorsed Document/s	
<p>The following documents were endorsed/approved by the ER (Mr Alex Gale)</p> <ul style="list-style-type: none"> ▪ Nil this Period <p>The following documents were provided for information or reviewed with comments provided to Sydney Metro.</p> <ul style="list-style-type: none"> ▪ Nil this Period 	
Complaints / Incidents / Non-compliance	
<p>No non-compliances or incidents were reported to or identified by the ER for the Period:</p> <p>No complaints were received during the period:</p>	
Audits (specific to packages reported in this report)	
<ul style="list-style-type: none"> ▪ Participated in Independent Environmental Audit 3 	
Looking Forward – Core Focus Areas	
<p>Compliance during commencement of the SSTOM Project Office (SPO) works.</p> <p>ER Closing Comments: The SSTOM Project Office (SPO) was due to commence in the first quarter of 2023, however, has been delayed due to the contractor not completing a DNVIS or CTMP. For the Pedestrian Footbridge at St Marys, the Heritage Impact Assessment (HIA) has not completed for the works within the St Marys station heritage curtilage and as such a CEMP for these works is yet to be submitted for endorsement by the ER.</p>	



Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Station Boxes and Tunnelling (SBT)	Rui Henriques/ Alex Gale
Key Construction Activities During the Period	
<ul style="list-style-type: none"> ▪ Saint Marys: <ul style="list-style-type: none"> ○ Continued to establish ERSED Controls, hoardings fences and barricading ○ Continued soil nails, shotcrete of southern embankment to the west ○ Western pilling pad establishment continued ○ Continued Pilling in central areas ○ Continued blinding and pile break-back east to west ○ Continued capping beam construction east to west. ○ Commenced blinding FRP in staging and ancillary areas south of station box ○ Continued Water treatment plant (WTP) construction ○ Main (Station Plaza) Laydown slab completed drainage ○ Commenced bulk excavation and shotcreting of Station box in the east ▪ Claremont Meadows Services Facility: <ul style="list-style-type: none"> ○ Erosion sediment controls operation and maintenance ○ Water Treatment Plant operation and maintenance ○ Bulk excavation of shaft - 1st 10 m ▪ Orchard Hills: <ul style="list-style-type: none"> ○ Noise wall construction ongoing ○ Continued ERSED controls installation ○ Completed topsoil stripping ○ Dewatering of onsite dams ○ Storage of Tunnelling ancillary equipment including ventilation system and conveyors ○ Establishment of permanent site offices, amenities and permanent site accesses completed in the north ○ Continued construct hardstand for roads and roads ○ Continued pilling, blinding and pile breakback in the centre from north to south ○ Continued capping beam construction in the Centre, from north to south ○ Continued pilling at Lansdowne Rd and commenced blinding and pile break-back ○ Preparation of pilling pad south of Lansdowne Rd ongoing ▪ Aerotropolis : <ul style="list-style-type: none"> ○ Fencing, and ERSED controls installation ○ Surface asbestos contaminated soil removal works in area identified as moderate risk by the DSI ○ Pilling in low risk areas ongoing from south to north ○ Commenced pile break-back and blinding, and capping beam FRP ○ Commenced cut to fill in to area identified as moderate risk by the DSI ▪ Bringelly Services Facility : <ul style="list-style-type: none"> ○ Continued ERSED controls installation ○ Completed pilling cap construction ○ Continued Installation and commissioning of Water Treatment Plant ○ Commenced bulk excavation of shaft 	
Key Construction Activities Look Ahead	
<ul style="list-style-type: none"> ▪ Saint Marys: <ul style="list-style-type: none"> ○ Continue Establish ERSED Controls, hoardings fences and barricading ○ Complete soil nails, shotcrete of southern embankment to the west ○ Continue pilling at central western portion ○ Continue blinding and pile break-back east to west ○ Continue capping beam construction east to west. ○ Continue WTP construction and installation ○ Commenced bulk excavation and shotcreting of Station box east to west ○ Continue main (Station Plaza) Laydown areas configuration and fit-out 	



- Commenced blinding for staging and ancillary areas south of station box

- Claremont Meadows Services Facility:
 - Continue Erosion sediment controls operation and maintenance
 - Continue Water Treatment Plant operation and maintenance
 - Continue bulk excavation of shaft - 1st 10 m
- Orchard Hills:
 - Continue ERSED controls installation
 - Continue dewatering of onsite dams as required.
 - Complete establishment of permanent site offices, amenities and permanent site accesses
 - Continue construction of hardstand for roads and roads
 - Commence tunnel precast segment delivery
 - Continue pilling, blinding and pile breakback in the centre -north to south
 - Continue capping beam construction in the centre – north to south
 - Continue capping beam construction at Lansdowne Rd
 - Commence station box bulk earthworks
- Aerotropolis :
 - Continue ERSED controls installation
 - Complete surface asbestos contaminated soil removal works in area identified as moderate risk by the DSI
 - Continue cut to fill in to area identified as moderate risk by the DSI
 - Continue pilling in low risk areas from south to north
 - Continue pile break-back and blinding, and capping beam FRP
- Bringelly Services Facility :
 - Continue Erosion sediment controls operation and maintenance
 - Complete Install and commission of WTP
 - Continue bulk excavation of shaft - 1st 10 m

ER Inspections

There was one (1) ER Inspection conducted by Mr Rui Henriques in January 2023 (ER inspections are on a fortnightly cycle weather and health permitting).

- **19/1/2023** - Key points/ issues raised during this inspection were as follows:
 - St Marys, Orchard Hills and Bringelly - Implementation of erosion and sediment controls is not consistent with the current ESCP. It was noted during the inspection that Andrew Macleod (CPESC) visited the site to review ESCP implementation and changes required. CPBG to provide updated ESCPs.
 - St Marys- Access gate to Sydney Trains rail corridor at bottom of Glossop St. It was agreed at the inspection that installation of a gradual roll-over berm was feasible to divert high velocity water and sediment away.
 - At the St Marys northern haul road parallel to rail corridor, sandbags at barrier penetrations should be refreshed or an alternative approach adopted.
 - At the St Marys, CPBG to provide adequate accessible bunding in areas where flammable liquids are used.
 - At Bringelly, a sediment basin level gauge/ marker peg to be installed in accordance with the Blue Book, and inlet dissipater structure provided (refer to Bringelly ESCP) to prevent scour.
 - At Orchard Hills, it was noted that implementation of erosion and sediment controls at Orchard Hills has improved markedly
 - At Orchard Hills north, internal swales and features acting as water drainage paths should be stabilised and protected to prevent scour in accordance with the Blue Book (See design SD5-5 and 5-4 of the ESCP).
 - At Aerotropolis, an interim Erosion and Sediment Control Plan (ESCP) for the Aerotropolis site was provided to the ER at the inspection. However, the ESCP provided does not meet the minimum requirements for ESCPs outlined in Section 2.2. of the Blue Book. To ensure compliance with condition E128 is achieved, CPBG should prepare a formal ESCP for the Aerotropolis site in accordance with the Blue Book
 - At Aerotropolis, in the DSI moderate risk area, construction of clean water diversion swale to the north of the site compound. Northern east-west return of swale currently functions as a sediment basin. Stockpiles have been created immediately adjacent to the swale/basin and upgradient. Stockpiles should be pulled back a minimum distance of 2 m (preferably 5 m) from the swale/basin with sediment fence placed downgradient of the stockpile and a water diversion berm placed upgradient of the stockpiles(Refer to design drawing SD 4-1 in the Blue Book.



Photos



Orchard Hills central Kent Rd Access – No tracking observed



Orchard Hills central, view west – Capping Beam construction



Orchard Hills view south – Capping beam FRP at Lansdowne Rd for bridge over station box.



Orchard hills- view south at pilling pad preparation South of Lansdowne Rd .



St Marys: View of works to the north showing eastern capping beam and station box excavation



St Marys – Looking west along Station St.



St Marys view south east to Station Plaza –laydown slab complete.



St Marys looking west from central area – along capping beam.



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



Claremont Meadows view northwest – Shaft excavation spoil.



Claremont Meadows – View southwest along Great Western Highway of basin in operation



Claremont Meadows view west – Shaft bulk excavation



Bringelly Services Facility view north west–. Sed. Basin in operation



Bringelly Services Facility – Services shaft bulk excavation. Note completed capping beam and upstand



Aerotropolis : View southwest of surface soil stripping and asbestos removal in DSI moderate risk areas.



Aerotropolis : View north from entrance of DSI low risk area pile break back, blinding and capping beam FRP.

Endorsed Document/s	
<p>No documents were endorsed by the ER.</p> <p>The following documents were provided for information:</p> <ul style="list-style-type: none"> ▪ Claremont Meadows DNVIS 	
Complaints / Incidents / Non-compliance	
<p>Nil Non-compliances were identified by or reported to the ER this period.</p> <p>Nil incidents of note were reported to the ER this period.</p> <p>Six (6) complaints were reported to the ER, one (1) of which was not related to the project:</p> <ul style="list-style-type: none"> ▪ 9/01/2023 – Claremont Meadows resident had general queries relating to tunnel integrity, noise from worksite and removal of trees. CPBG Added stakeholder to the email data base to ensure they receive regular construction updates. CPBG Doorknocked stakeholder and provided latest Claremont Meadows construction update and project newsletter. ▪ 9/01/2023 – Complaint regarding tyre/wheel damage and safety issues on Lansdowne Road at Orchard Hills. No close-out information provided to the ER. ▪ 9/01/2023 – Chesham St., St Marys resident complained regarding project vehicles parking on residential street. CPBG investigated and followed up with site personnel. Created and distributed flyers for cars in the area to notify workers of correct site parking location. ▪ 11/01/2023 – Complaint by stakeholder concern the water truck in operation on Lansdowne Road, Orchard Hills is creating unsafe road conditions. CPBG states that they informed stakeholder the water cart operations were moved to afternoon schedule for that day and will continue even if heavy vehicles are not in operation. ▪ 17/01/2023 – Complaint by Claremont Meadows stakeholder concern about truck routes and use of local roads in Sunflower Dr and O'Connell St). Upon investigation CPBG states that those streets are not used by WSA heavy vehicles but they approved for use by the sports facilities development neighbouring the WSA Claremont meadows site. ▪ 18/01/2023 – Complaint by Orchard Hills stakeholder concerned about trucks using local/rural roads. No information on investigation and close out provided to the ER 	
Audits (specific to packages reported in this report)	
<ul style="list-style-type: none"> ▪ Participated in Independent Environmental Audit 3 	
Looking Forward – Core Focus Areas	
<p>Compliance with CoA E128</p> <p>ER Closing Comments:</p> <p>It was noted that implementation of erosion and sediment controls at Orchard Hills has improved markedly and the contractor engaged Andrew Macleod (CPESC) who visited the site to review ESCP implementation and changes required. Environmental performance was generally good during the period, with increased efforts by the contractor to improve soil and water management.</p>	
Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Surface and Civil Alignment Works (SCAW)	Alex Gale/Rui Henriques
Key Construction Activities During the Period	
<ul style="list-style-type: none"> ▪ Patons Lane: <ul style="list-style-type: none"> ○ Works continue on the all-weather access track from Patons Lane to the SMF ○ Site sheds have been installed and the compound is functional ○ Sandstone is being brought into the haul road and stockpiled ○ Water is being sourced from Bingo's pond ▪ Stabling and Maintenance Facility (SMF) Orchard Hills: <ul style="list-style-type: none"> ○ Stockpiles have been consolidated at the northern end of the SMF ○ The 12ML basin is approaching completion at the northern end of the SMF 	



- Additional clearing was undertaken
- Celestino Property – 567 to 609 Luddenham Rd
 - Geotechnical investigations continued
- Elizabeth Drive:
 - Site sheds are being delivered and installed
 - Piling has commenced at the northern end of the site
 - Additional access tracks are being constructed

Key Construction Activities Look Ahead

- Patons Lane:
 - The main entry / exit point will be established following clearing of additional trees
 - Sandstone will continue to be brought to this part of the project, subject to an endorsed DNVIS
 - Additional water sources will be investigated for construction use
- SMF:
 - Site won material will continue to be stockpiled at the SMF
 - The remaining trees will be removed, the project will contact user groups and offer hollows for reuse
 - The main 12ML sediment basin will be completed and commissioned
 - Sandstone material will be brought into the SMF during the hours nominated under E38
- Celestino Property:
 - Geotechnical investigations will continue at the Celestino property
- Elizabeth Drive:
 - Earthworks continue for the haul roads
 - The site compound will be completed
 - Access tracks will be continued to be constructed to the northern end of the project
 - Piling will continue at the M12 & SCAW junction
 - Topsoil and seed will be applied to long term bunds and windrows

ER Inspections

There was one ER Inspection in January 2023 (ER inspections are on a fortnightly cycle weather and health permitting), An inspection scheduled for 24/01/2023 was cancelled by the ER the night before due to the ER significantly injuring his foot on 23/01/2023.

- 12/01/2023 (By Mr Alex Gale) - Key points/ issues raised during this inspection were as follows:
 - Erosion and sediment controls were installed and were effective during the Christmas shutdown period
 - The project has invested in polymer binder to spray batters
 - A spill kit at the Elizabeth Drive piling pad was present however was not accessible
 - The project continues to monitor noise and dust levels at the SMF

Photos



Patons Lane – Polymer compound has been ordered and used on site as an ERSED control

Patons Lane – The perimeter controls around the compound have been established and work as intended



Patons Lane – The site compound is complete



Patons Lane – Environmental protection zone signage was in place



SMF – Crushed sandstone is starting to be spread out in the SMF



SMF - Trees have been cleared in the SMF with the remained needing ecologist supervision



Elizabeth Drive - Moxy watercarts were in operation during the inspection



Elizabeth Drive - The site compound continues to be established



Elizabeth Drive – Earthworks continue to the south of the site compound



Elizabeth Drive – Rocks and boulders have been stockpiled for use in future ERSED controls



Elizabeth Drive - Piling has commenced at the northern piling pad

Elizabeth Drive - A spill kit is present at the piling pad, however is not easily accessible

Endorsed Document/s

The following documents were endorsed by the ER:

- Nil this period

The following documents were provided for information or reviewed:

- Out-of-hours work application form (003) Patons Lane and SMF – Material Delivery and Stockpiling

Complaints / Incidents / Non-compliance

No complaints were reported to the ER during the period.

Nil incidents were reported to the ER during the period

Nil non-compliances were reported to the ER during the period

Audits (specific to packages reported in this report)

- Participated in Independent Environmental Audit 3

Looking Forward – Core Focus Areas

The project has obtained regular advice from a soil conservationist and has implemented erosion and sediment controls well with works progressing to the north of the Elizabeth Drive site. Stakeholders will be contacted during February 2023 and offered any hollows that are obtained during tree felling activities.

ER Closing Comments: The quality of the erosion and sediment controls continues to be of a high standard, minimising erosion and off site runoff risk. The programming of the DSIs continues to be linked to the construction sequence and to date works in AECs have not commenced until the relevant DSI has been completed. The project needs to secure additional water sources for use in earth works compaction and dust suppression, the project has had preliminary discussions with Water NSW to ensure the correct process is followed in obtaining water.

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.

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