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

7 October 2022
Ref: 201209-ER_DPIE-October 2022

Dear Alex,

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



Yours sincerely



Rui Henriques
Environmental Representative

Cc:
Sydney Metro: Hugh Chapman, Jeremy Slattery, David Virtue
DPIE: Major Projects Portal

Enclosed: ER Endorsement of SBT CEMP R2.0 200922
ER Endorsement of SBT CFFMP R1_51022
ER Endorsement of SBT CNVMP&CSWMP R1_260922
ER Endorsement of SCAW CEMP RC 311022
ER Endorsement of SCAW PCEMP 071022
ER endorsement SCAW FFMP 200922
ER endorsement SCAW NVMP 190922
ER endorsement SCAW NVMPPr 190922
ER endorsement SCAW SWMP 190922
ER endorsement SCAW SWQMP 190922
SMWSA Staging Report v7_FINAL

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	
St Marys Station Lift Relocation: <ul style="list-style-type: none"> ▪ New lift shaft was installed ▪ Temporary pads were constructed to aid the installation of the new lift shaft and removal of the old lift shaft ▪ Additional scaffolding and screening was installed on the new stairs 	
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"> ▪ St Marys Station Lift Relocation <ul style="list-style-type: none"> ○ Lift testing and commissioning ○ Stormwater connections ○ Stabilisation of existing disturbed ground ○ Placement of paving bricks ○ Landscaping activities 	
ER Inspections	
<p>There were two ER Inspections (conducted by Mr Alex Gale) in October 2022 (ER inspections are on a fortnightly cycle weather and health permitting):</p> <ul style="list-style-type: none"> ▪ 05/10/2022 - Key points/ issues raised during this inspection were as follows: <ul style="list-style-type: none"> ○ Erosion and sediment controls were installed and the site was largely sealed ahead of the predicted rainfall ○ Off site water from the existing roof structure has been temporarily diverted around the site to minimise site flooding and reduce pressure on ERSED controls ▪ 21/10/2022 - Key points/ issues raised during this inspection were as follows: <ul style="list-style-type: none"> ○ Erosion and sediment controls were in good condition which was pertinent given the recent rainy weather ○ A generator required a bund to be placed underneath it when it needed to be refuelled 	
Photos	
	
St Mays lift relocation – Perimeter erosion and sediment controls were installed along fence with rail corridor	St Marys lift relocation – retained site won material for backfill was covered to minimise dust and erosion issues



St Marys lift relocation – View of the temporary pads for the installation of the new lift shaft and removal of the old lift shaft



St Marys lift relocation– The temporary truss installed on the temporary pads



St Marys lift relocation – The bike lockers have been moved to a more prominent location at the request of Sydney Trains



St Marys lift relocation – The site is well contained and in good order



St Marys lift relocation – A small generator was observed unbundled, a bund is required during refuelling activities



St Marys lift relocation - Additional new bricks have been procured that will supplement the reused existing bricks

Endorsed Document/s

The following documents were endorsed/approved by the ER (Mr Alex Gale)

- TBI OOHW 1 Revision 21 – Station Street pavement investigation between 31/10/22 and 11/11/22

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



Complaints / Incidents / Non-compliance
No non-compliances or incidents were reported to the ER for the Period:
No complaints were received during the period:
Audits (specific to packages reported in this report)
<ul style="list-style-type: none"> ▪ Nil this period
Looking Forward – Core Focus Areas
<ul style="list-style-type: none"> ▪ Nil <p>ER Closing Comments: The St Marys lift and stairs relocation has been well managed with the project implementing sustainability initiatives. As these works near completion the focus will become centred around landscaping activities. Future works for the St Marys Station footbridge AEW, yet to commence, will be undertaken concurrently with the Station Boxes and Tunnelling (SBT) package of works, meaning that cumulative impacts will become a key consideration in the coming months.</p>

Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Station Boxes and Tunnelling (SBT)	Rui Henriques/ Jo Robertson/Alex Gale

Key Construction Activities During the Period
<ul style="list-style-type: none"> ▪ Saint Marys: <ul style="list-style-type: none"> ○ Completed establishment of construction offices and parking area in the east, close to Glossop Street ○ Continue Establish ERSED Controls, hoardings fences and barricading ○ Preparation of piling pad at western portion ○ Commenced piling in the east ○ Soil nails, shotcrete (completed in east) ○ Completed eastern piling pad ○ Completed Station Plaza bulk earthworks ▪ Claremont Meadows Services Facility: <ul style="list-style-type: none"> ○ Completed delivery of training centre and connection of associated services ○ Installation of hoarding (ongoing) ○ Site establishment; sediment basins, site access roads, piling pad ○ Guide wall completed ○ Fit out of training centre ongoing ○ Commenced piling ▪ Orchard Hills: <ul style="list-style-type: none"> ○ Topsoil stripping (ongoing) ○ Site establishment; portal area, northern section of site ○ Preparation of piling pad ○ Commenced piling ○ Compound foundation ○ Establishment of segment storage area ○ Lansdown Rd. diversion works ○ Hoarding ○ Utilities ○ Excavation of portal access road upper level (surface only) ○ Vegetation Clearing ▪ Aerotropolis : <ul style="list-style-type: none"> ○ Fencing, and ERSED controls installation ○ Carpark Construction ○ Construction of piling pad and topsoil stripping within low risk area completed ○ Establishment of site offices and amenities ▪ Bringelly Services Facility : <ul style="list-style-type: none"> ○ DSI Completed ○ Hoarding and fencing, and ERSED controls installation ○ Site leveling and internal road construction and stockpiling of spoil and asbestos containing soils.



- Preparation of piling pads
- Completed guide wall
- Commenced piling

Key Construction Activities Look Ahead

- Saint Marys:
 - Complete establishment of construction offices and parking area
 - Continue Establish ERSED Controls, hoardings fences and barricading
 - Preparation of piling pad at western portion
 - Commence piling in the west
 - Commence capping beam construction.
- Claremont Meadows Services Facility:
 - Continue ERSED controls installation
 - Continue site leveling and internal road construction.
 - Continue piling
 - Commission Water Treatment Plant
- Orchard Hills:
 - Complete vegetation Clearing
 - Continue ERSED controls installation
 - Complete topsoil stripping
 - Dewatering of onsite dams
 - Establishment of site offices and amenities
 - Construct hardstand for roads
 - Complete hardstand for tunnel precast segment storage
 - Commence tunnel precast segment delivery
 - Piling
- Aerotropolis :
 - Establishment of site offices and amenities, and internal access roads.
 - Fencing, and ERSED controls installation
 - Cut to fill continuing in to areas identified as moderate risk by the DSI following Auditor concurrence
- Bringelly Services Facility :
 - Hoarding and fencing, and ERSED controls installation
 - Preparation of piling pad
 - Completed guide wall
 - Commenced piling
 - Install Water Treatment Plant

ER Inspections

There were two (3) ER Inspections conducted by Mr Rui Henriques in August 2022 (ER inspections are on a fortnightly cycle weather and health permitting).

- ER 13/10/2022 - Key points/ issues raised during this inspection were as follows:
 - At St Marys, appreciable tracking was observed onto Station St. from construction areas to the south. As the stormwater system is live, CPBG to provide stabilised access from these areas, consistent with the Erosion and Sediment Control Plan (ESCP), and increase street sweeper frequency.
 - At St Marys, temporary basin on northwest corner of former Plaza area requires a rock and geofabric lined spillway.
 - At St Marys, along rail corridor ERSED controls are not consistent with the ESCP. CPBG to complete northern compacted earth bund lined with geofabric/matting (min. 500mm high); or use a sand bag bund (min. 300mm high) formed at the base of concrete barriers to seal under the barriers.
 - At St Marys, water retained in excavation works north of goods Shed, in the proximity to the Goods Shed, may present a risk to subsoil integrity. CPBG to monitor water accumulation near the goods shed and prevent it where feasible.
 - At St Marys, dust generation noted as north side of Station St. used as haul road. This suggests that street sweeper frequency is not appropriate for level of activity and weather conditions. CPBG to increase street sweeper frequency.



- At Claremont Meadows, sediment basins require rock and geofabric lined spillways with dissipaters.
- At Claremont Meadows, sediment basins require scour protected swales and inlets with dissipaters in line with the ESCP.
- At Claremont Meadows, appreciable tracking noted from southern access. CPBG should provide adequately stabilised access or wash wheels and wheel arches and increase street sweeper frequency.
- At Claremont Meadows on Gipps St (south of Putland St), Parking along western verge within natural clean drainage swale caused significant soil disturbance and increases erosion. CPBG should cease parking in this area and stabilise the natural clean water drainage swale, consistent with the ESCP.
- At Bringelly, Clean roof water is currently mixed with dirty water in the dirty water swale. Clean roof water should be diverted away from dirty water to reduce load on ERSED controls.
- At Bringelly, Styrofoam waste to be collected and adequately stored for disposal to prevent littering of surrounding properties and finding its way to Badgerys Creek.
- At Bringelly, the southern haul road and western stockpiling area should be trimmed and surfaces stabilised using a method with adequate durability. CPBG to provide details on proposed activities for the area and stockpiles. Also, CPBG to Provide ESCP prepared for Bringelly construction site.
- At Bringelly, appreciable tracking was noted at the site exit. CPBG should provide adequately stabilised access or wash wheels and wheel arches and increase street sweeper frequency.
- 27/10/2022 - Key points/ issues raised during this inspection were as follows:
 - At St Marys, in the north west corner of Station St in path and in pit protections to large stormwater drain adjacent the goods shed require improvement. CPBG should consider including the use of in drain filter controls.
 - At St Marys, some dust was noted as wind speeds picked up. CPBG to confirm that high wind management procedure in place is adequate.
 - At Orchard hills, erosion and sediment controls around 86/88 Kent Road drainage line drainage line, east and west of the crossing, require improvements and an adequate Erosion and Sediment Control Plan (ESCP), to prevent sediment transport to drainage line, which is part of the Blaxland Creek / South Creek catchment. CPBG to provide ESCP for Orchard Hills.
 - At Aerotropolis CPBG investigating source of grass discoloration and die-back leading from fuel storage and refuelling area, and sourcing portable bund to use during refuelling.
 - At Aerotropolis, CPBG reviewing dust mitigation measures as work activities increase and in response to weather conditions.
 - At Aerotropolis, Sediment fence well installed along western boundary in DSI low risk area. CPBG awaiting final sample results of top soils in other areas before permanently stabilising top soil embankments, and monitoring sediment fence in central natural drainage point
 - At Bringelly, the swale along the northern boundary was breached during a recent major rain event, and sustained damage. CPBG repairing swale, including protections, and increasing height to add capacity and reduce the risk of future breach.
 - At Bringelly, CPBG reviewing practice of washing wheels at the entrance concrete apron and exploring a more appropriate location within the site as current practice results in dirty water drainage into natural drain, flowing to northern neighbour.

Photos



Orchard Hills – Lansdowne Rd diversion construction looking east from Kent Rd



Orchard Hills north view South - ERSED controls around drainage line and crossing, require improvements



Orchard Hills north view south west: Station box and portal pilling works



Orchard hills– South of Lansdowne Rd hoarding along west boundaries, with southern boundary remaining



St Marys Station St view east: – Hoarding along Station St.



St Marys North west corner of Station St. - In path and in pit protections require improvement



St Marys Station St south west – Street sweeper in action.



St Marys – Station Plaza earthworks completed.



St Marys view west – Dust noted with wind . CPBG to confirm adequacy of high wind management procedure.



Claremont Meadows southern access - Appreciable tracking noted. CPBG to improve stabilised access



Claremont Meadows south west corner - Basins require rock and geofabric lined spillways with dissipaters.



Claremont Meadows view west – shaft pilling



Bringelly Services Facility – Swale along Northern Boundary overflow to boundary in recent high rainfall



Bringelly Services Facility – View west of shaft pilling



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



Aerotropolis : View east from pilling pad construction of site accommodation/compound.

Endorsed Document/s

The following documents were endorsed by the ER (Rui Henriques and Alex Gale):

- Construction Environmental Management Plan - Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works (Revision 2), dated 27 September 2022
- NSW (Off-airport) Flora and Fauna Management Sub-plan Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works, Revision 1 of 5/10/2022
- NSW (Off-airport) Construction Noise and Vibration Management Sub-plan - Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works, Revision 1 of 23/09/2022 including Construction Monitoring Program – Noise and Vibration
- NSW (Off-Airport) Soil and Water Management Sub-Plan - Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works, Revision 1 of 21/09/2022, including Construction Monitoring Program – Surface Water Quality and Construction Monitoring Program – Groundwater.
- Sydney Metro Western Sydney Airport – CSSI Staging Report, Revision 7.0, dated 4 October 2022

The following documents were provided for information or reviewed:



- Project-wide Groundwater Modelling Report Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works

Complaints / Incidents / Non-compliance

No Non-compliances were identified by the ER this period.

Nil incidents of note were reported to the ER this period.

Ten complaints were reported to the ER:

- 4/10/2022 – Stakeholder from Orchard Hills complained about street sweeper driver behaviour. Turning right from Lansdowne onto SMR and cut corner. Near miss with stakeholder's husband. expressed concern about damage to property resulting from construction works. Comms team investigated and informed stakeholder the driver has been tool-boxed and sweep times will be addressed.
- 11/10/2022 – Stakeholder from Orchard Hills complained of lack of notification of Sydney Water outage. Project advised stakeholder they would pass on details of her lack of notification to Sydney Water.
- 14/10/2022 – Stakeholder from Bringelly complained about grader and vehicle parked on verge blocking access to his farm gate. Stakeholder approached driver and asked to move on. Driver told stakeholder they are not allowed to park machinery within the site. Project advised stakeholder that grader should not have blocked any gate access and plant/machinery are allowed to park on site as long as they have completed all the required induction process. Also committed to ensuring toolboxes are inclusive of not parking across any access to properties.
- 14/10/2022 – Same stakeholder from Bringelly complained about dust blowing around on site and no water controls. Project advised stakeholder of EPL requirements and compliance regarding dust mitigation and water controls on site and increased measures would be in place as construction activities increase.
- 17/10/2022 – Stakeholder called to advise Sydney Metro truck was tailgating them when travelling on the M7 in Thirlmere. Uncertain if this was a Sydney Metro West or Sydney Metro Western Sydney Airport truck. Project Transport team confirmed this vehicle was not registered to the project.
- 19/10/2022 – Stakeholder from Orchard Hills called to advise of stationary grader on corner of Lansdowne and Kent Roads, Orchard Hills. Hard to see oncoming traffic on Kent Road when travelling west on Lansdowne Road. Stakeholder asked if it could be moved, no call back required. Foreman walked down to nominated area. No plant was parked outside our site boundaries. Photo taken. No grader on corner of Lansdowne and Kent Roads.
- 24/10/2022 – Stakeholder from Orchard Hills called to complain about truck parked up on the road at Lansdowne Road forcing traffic behind in into oncoming traffic to get around it. No call back required. Project team investigated and concluded the heavy vehicle driver noticed a hazard on the road (debris) . and parked the vehicle and left it to quickly remove the debris to ensure no cars were damaged. The supervisor advised that he was not stopped for more than a few minutes. The driver was instructed pull into site driveway and call for traffic control if needing to pull over.
- 25/10/2022 – Stakeholder from Bringelly advised restoration works were not completed as per Property Adjustment Agreement he signed. about stormwater is being re directed to her property from swale onsite. Concerned as the water was ankle deep, went under her house and washed away new gravel that was just put down. Site foreman confirmed there is drainage in place to divert water away from the neighbouring property however with the amount of rain received in a short period of time the drain filled quickly then overflowed. Site environment team member and Place Manager met with stakeholder. Discussed how site is set up from a drainage perspective and the additional measures being put in place to ensure there is no water run-off into her property.
- 26/10/2022 – Stakeholder from Bringelly complained about stormwater is being re directed to her property from swale onsite. CPBG discussed options for removal of shrubs with project team and organised an onsite visit with stakeholder for 8 November.



- 26/10/2022 - Stakeholder from Orchard Hills called to advise of tipper truck with a trailer and a machine on parked in the same position as the last one on the intersection of Kent and Lansdowne obstructing all visibility for traffic turning onto Kent and Lansdowne Rd. No call back required. Upon investigation, vehicle was found not to be related to SBT works.

Audits (specific to packages reported in this report)

No audits were conducted during the reporting period.

Looking Forward – Core Focus Areas

Compliance with CoA E49, E46, E57, E103 to E105 and E109

ER Closing Comments: Environmental performance in relation to ERSED control requires greater attention including to revision and implementation of and Erosion and Sediment Control plans. Project reasonably responsive to queries and recommendations made by the ER.

Contract Package	Environmental Representative/s
Sydney Metro - Western Sydney Airport Surface and Civil Alignment Works (SCAW)	Rui Henriques/ Jo Robertson/Alex Gale

Key Construction Activities During the Period

- Patons Lane:
 - Minor access tracks were constructed under LIW 62 and the PCEMP
 - Stripped topsoil was formed into bunds, covered in geofabric and used as a key clean and dirty water control
 - The site compound area was formed under the PCEMP scope of works
 - Habitat trees were investigated by the project ecologist
 - Fencing activities have commenced
- SMF:
 - The SMF is being formed and material is progressively being stockpiled at this location
 - Erosion and sediment controls have been progressively installed as per the PESCP
- Celestino Property:
 - Geotechnical investigations continue at the Celestino property
- Elizabeth Drive:
 - Minor access tracks were constructed under LIW 62 and the PCEMP
 - Habitat trees were inspected by the project ecologist

Key Construction Activities Look Ahead

- Patons Lane:
 - Access tracks will be treated so they are all weather surfaces
 - The compound area will continue to be filled with site won material, this will allow a sufficient drainage grade to direct water to erosion and sediment controls
 - The site exit point to Patons Lane will be formalised with rumble grids and hardstand materials
 - Nest boxes will be installed in the retained trees on Patons Lane
 - Fencing activities will continue
- SMF:
 - Site won material will continue to be stockpiled at the SMF
 - The SMF will be expanded to its final size
 - Erosion and sediment controls will be revised as the SMF increases in size
 - Next boxes will be installed on the northern boundary of the SMF
- Celestino Property:
 - Geotechnical investigations will continue at the Celestino property
- Elizabeth Drive:
 - Access tracks will continue to be constructed
 - Site won material will be formed into windrows to delineate clean and dirty water

- The compound area earthworks will commence
- Nest boxes will be installed in retained trees at the recommendation of the project ecologist

ER Inspections

There were two ER Inspections (conducted by the Mr Alex Gale) in October 2022 (ER inspections are on a fortnightly cycle weather and health permitting).

- 07/10/2022 (By Mr Alex Gale) - Key points/ issues raised during this inspection were as follows:
 - Erosion and sediment management was a key priority for the project and was planned and implemented via the ERSED plans
 - Controls were in good condition and were being progressively improved upon
- ER 20/10/2022 (By Mr Alex Gale) - Key points/ issues raised during this inspection were as follows:
 - Minor amounts of dirt from the access road to Patons Lane needed to be cleaned up and a stabilised exit installed
 - DSIs were being progressively completed, with no works occurring in AEC areas until the DSIs have been approved

Photos



Patons Lane access to SMF view north - Controls installed retained dirty water from major rain event within the site



Celestino property – Geotechnical investigations are continuing at the Celestino Property



Patons Lane – The exit point had some dirt tracked onto the public road



Patons Lane - A controlled drainage channel has been installed along the access road



Patons Lane - Geofabric was being installed over the perimeter bunds



SMF - The SMF area is progressing well with perimeter controls installed



Elizabeth Drive - Topsoil stripping continues at the Elizabeth Drive site



Elizabeth Drv. Compound - The farm dam to be enhanced to meet water storage needs for construction purposes

Endorsed Document/s

The following documents were endorsed by the ER:

- Construction Environmental Management Plan - Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision F), dated 6 October 2022 – Endorsed by Rui Henriques
- Air Quality Management Plan- Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision 1), dated 28/9/2022 - Endorsed by Alex Gale
- Spoil Management Plan - Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision 1), dated 28/9/2022 - Endorsed by Alex Gale
- Soil and Water Management Plan - Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision 1), dated 28/9/2022 - Endorsed by Alex Gale
- Construction Environmental Management Plan Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision C), dated 20/10/2022 – Endorsed by Alex Gale
- Non-Aboriginal Heritage Management Sub-Plan - Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision D), dated 28/9/2022 - – Endorsed by Alex Gale
- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Air Quality Construction Monitoring Program (Revision D), dated 27/8/2022 - Endorsed by Alex Gale
- Construction Noise and Vibration Management Plan Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision D), dated 16/10/2022 - Endorsed by Alex Gale
- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Noise and Vibration Monitoring Program (Revision D) dated 16/9/2022 - Endorsed by Alex Gale
- Construction Soil and Water Management Plan Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision E), dated 16/9/2022 - - Endorsed by Alex Gale
- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Surface Water Quality Monitoring Program (Revision E), dated 16/9/2022 - - Endorsed by Alex Gale
- Construction Flora and Fauna Management Plan Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision D), dated 16/9/2022

The following documents were provided for information or reviewed:

- Construction Environmental Management Plan - Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works
- Air Quality Management Plan- Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works
- Spoil Management Plan - Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works
- Soil and Water Management Plan - Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works

Complaints / Incidents / Non-compliance

Nil complaints received during the period.
Audits (specific to packages reported in this report)
No audits were conducted during the reporting period.
Looking Forward – Core Focus Areas
Scheduling of DSIs to ensure works don't occur within the relevant AEC until the DSI has been approved. Progressively install and change erosion and sediment controls to reflect changing levels during earthworks Ecological surveys prior to and during tree felling and farm dam dewatering Compliance with CoA E103 to E105 Compliance with Condition A49

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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Hugh Chapman
Director
Director Sustainability Environment & Planning SMWSA
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

4 October 2022

Ref: 201209_SR R7.0

Dear Hugh

RE: Endorsement of the Sydney Metro Western Sydney Airport Staging Report (Rev. 7)

Thank you for providing the Sydney Metro Western Sydney Airport – CSSI Staging Report, Revision 7.0, dated 4 October 2022 (the Staging Report) for Environmental Representative (ER) review and endorsement as required by the Condition of Approval A11 of the Sydney Metro Western Sydney Airport project (SSI – 10051 July 23, 2021).

Revision 7.0 of the Staging report is the outcome of:

- a review of the Non-Aboriginal Heritage risk assessment mitigation measures for the SBT package’s Bulk Excavation and Tunnelling Work, to reflect further settlement studies and confirmation of the tunnelling technique that will be employed; and
- review and correction of the allocation of certain Conditions of Approval, Construction Environmental Framework requirements and REMMs.

As an approved ER for the Sydney Metro Western Sydney project, I have provided comment on the Staging Report with respect to the risk assessment required under Condition A11(e) (the Risk Assessment) and how it influences the nominated allocation of project requirements, namely the Conditions of Approval (CoA) and the Revised Environmental Mitigation measures (REMMs). Further key deliverables under the Construction Environmental Management Framework (CEMF) apply unless otherwise demonstrated that a specific element is either not relevant to the project works (i.e.: Heritage Management in the case of the Stations, Systems, Trains and Operations and Maintenance stage) or the residual risk associated with an aspect is low to medium and can be adequately managed within the CEMP (i.e.: specific procedural text is incorporated or a stand-alone procedure is generated respectively). This is generally consistent with the approach taken previously on other Sydney Metro projects.

In addition to the above, I have also provided comments on the adequacy of the Staging Report to satisfy requirements A11 (a) – (d).

It should be noted that the ER review of risks and the allocation of requirements is based on information known to the ER at the time of review and will be subject to update as the project evolves. I consider the Staging Report, including the Risk Assessment, appropriate for submission to the Planning Secretary for information as required by Condition of Approval A10.

Yours sincerely



Rui Henriques
Environmental Representative – Sydney Metro Western Sydney Airport

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

20 September 2022

Ref: 201209_FFMP_RevD

Dear Hugh

RE: Endorsement of the Sydney Metro Western Sydney Airport – Surface and Civil Alignment Works, Flora and Fauna Management Plan (Rev D)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C5(b), C6 and C11 of the Sydney Metro West Infrastructure Approval (SSI 10051) which was approved by the Department of Planning and Environment (DPE) on 23 July 2021:

- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Flora and Fauna Management Plan (MWSASCA-CPU-1NL-NL000-EV-PLN-000002 Rev D dated 16 September 2022).

It is noted that:

- The Flora and Fauna Management Plan (FFMP Rev D) has been prepared by CPB and United Infrastructure Joint Venture (CPBUI) to address the requirements of Condition C5(b), C6 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 the required stakeholders. The FFMP was issued to DPE Environment and Heritage Group (formally DPIE EES), DPI Fisheries, Penrith City Council and Liverpool City Council on the 17 June 2022. Responses were received from DPE Environment and Heritage Group on 22 July 2022, DPI Fisheries on 22 June 2022, and Penrith City Council on 4 July 2022. A consultation meeting was held with Liverpool City Council on 30 June 2022, however no formal comments were received following this meeting. All comments received from DPE Environment and Heritage Group, DPI Fisheries and Penrith City Council have been incorporated into the FFMP.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 10051) in relation to the Flora and Fauna Management Plan.

As an approved ER for the Sydney Metro Western Sydney Airport project and as required by Conditions A32(d) and C7 on the basis of the above, the Flora and Fauna Management Plan (Revision D), is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Alex Gale
Environmental Representative – Sydney Metro Western Sydney Airport

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

19 September 2022

Ref: 201209_NVMP_RevD

Dear Hugh

RE: Endorsement of the Sydney Metro Western Sydney Airport – Surface and Civil Alignment Works, Noise and Vibration Management Plan (Rev D)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C5(a) and C6 of the Sydney Metro West Infrastructure Approval (SSI 10051) which was approved by the Department of Planning and Environment (DPE) on 23 July 2021:

- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Noise and Vibration Management Plan (SMWSASCA-CPU-1NL-NL000-NV-PLN-000001 Rev D dated 16 September 2022).

It is noted that:

- The Noise and Vibration Management Plan (NVMP Rev D) has been prepared by CPB and United Infrastructure Joint Venture (CPBUI) to address the requirements of Condition C5(a) and C6 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(a), consultation has been undertaken with the required stakeholders. The NVMP was issued to Penrith City Council, Liverpool City Council and WaterNSW on the 24 June. Responses were received from Penrith City Council on 22 July 2022 and from WaterNSW on 12 July 2022. A consultation meeting was held with Liverpool City Council on 30 June 2022, however no formal comments were received following this meeting. All comments received from Penrith City Council and WaterNSW have been incorporated into the NVMP.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 10051) in relation to the Noise and Vibration Management Plan.

As an approved ER for the Sydney Metro Western Sydney Airport project and as required by Conditions A32(d) and C7 on the basis of the above, the Noise and Vibration Management Plan (Revision D), is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Alex Gale
Environmental Representative – Sydney Metro Western Sydney Airport

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

19 September 2022

Ref: 201209_NVMPPr_RevD

Dear Hugh

RE: Endorsement of the Sydney Metro Western Sydney Airport – Surface and Civil Alignment Works, Noise and Vibration Monitoring Program (Rev D)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C13(a), C14 and C15 of the Sydney Metro West Infrastructure Approval (SSI 10051) which was approved by the Department of Planning and Environment (DPE) on 23 July 2021:

- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Noise and Vibration Monitoring Program (SMWSASCA-CPU-1NL-NL000-NV-PLN-000001 Rev D dated 16 September 2022).

It is noted that:

- The Noise and Vibration Monitoring Program (NVMPPr Rev D) has been prepared by CPB and United Infrastructure Joint Venture (CPBUI) to address the requirements of Condition C13(a), C14 and C15 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 C13(a), consultation has been undertaken with the required stakeholders. The NVMPPr was issued to Penrith City Council, Liverpool City Council and WaterNSW on the 24 June. Responses were received from Penrith City Council on 22 July 2022 and from WaterNSW on 12 July 2022. A consultation meeting was held with Liverpool City Council on 30 June 2022, however no formal comments were received following this meeting. All comments received from Penrith City Council and WaterNSW have been incorporated into the NVMPPr.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 10051) in relation to the Noise and Vibration Monitoring Program.

As an approved ER for the Sydney Metro Western Sydney Airport project and as required by Conditions A32(d) and C19 on the basis of the above, the Noise and Vibration Monitoring Program (Revision D), is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Alex Gale
Environmental Representative – Sydney Metro Western Sydney Airport

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
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Transport for NSW
PO Box K659
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19 September 2022

Ref: 201209_SWMP_RevE

Dear Hugh

RE: Endorsement of the Sydney Metro Western Sydney Airport – Surface and Civil Alignment Works, Soil and Water Management Plan (Rev E)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C5(c), C6 and C12 of the Sydney Metro West Infrastructure Approval (SSI 10051) which was approved by the Department of Planning and Environment (DPE) on 23 July 2021:

- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Soil and Water Management Plan (SMWSASCA-CPU-1NL-NL000-EV-PLN-000001 Rev E dated 16 September 2022).

It is noted that:

- The Soil and Water Management Plan (SWMP Rev E) has been prepared by CPB and United Infrastructure Joint Venture (CPBUI) to address the requirements of Condition C5(c), C6 and C12 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(c), consultation has been undertaken with the required stakeholders. The SWMP was issued to DPI Fisheries, Penrith City Council and Liverpool City Council on the 10 June. Responses were received from DPI Fisheries on 22 June 2022 and from Penrith City Council on 8 July 2022. A consultation meeting was held with Liverpool City Council on 30 June 2022, however no formal comments were received following this meeting. All comments received from DPI Fisheries and Penrith City Council have been incorporated into the SWMP.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 10051) in relation to the Soil and Water Management Plan.

As an approved ER for the Sydney Metro Western Sydney Airport project and as required by Conditions A32(d) and C7 on the basis of the above, the Soil and Water Management Plan (Revision E), is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Alex Gale
Environmental Representative – Sydney Metro Western Sydney Airport

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
Sydney Metro
Transport for NSW
PO Box K659
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19 September 2022

Ref: 201209_SWQMP_RevE

Dear Hugh

RE: Endorsement of the Sydney Metro Western Sydney Airport – Surface and Civil Alignment Works, Surface Water Quality Monitoring Program (Rev E)

I refer to Sydney Metro's (SM) submission of the following document required by Condition C13(b) and C14 of the Sydney Metro West Infrastructure Approval (SSI 10051) which was approved by the Department of Planning and Environment (DPE) on 23 July 2021:

- Sydney Metro – Western Sydney Airport, Surface and Civil Alignment Works Surface Water Quality Monitoring Program (SMWSASCA-CPU-1NL-NL000-WA-PLN-000001 Rev E dated 16 September 2022).

It is noted that:

- The Surface Water Quality Monitoring Program (SWQMP Rev E) has been prepared by CPB and United Infrastructure Joint Venture (CPBUJ) to address the requirements of Condition C13(b) and C14 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 C13(b), consultation has been undertaken with the required stakeholders. The SWMP was issued to DPE Water, DPI Fisheries, Penrith City Council and Liverpool City Council on the 10 June 2022. Responses were received from DPE Water on 28 June 2022, DPI Fisheries on 22 June 2022 and from Penrith City Council on 8 July 2022. A consultation meeting was held with Liverpool City Council on 30 June 2022, however no formal comments were received following this meeting. All comments received from DPE Water, DPI Fisheries and Penrith City Council have been incorporated into the SWQMP.

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 10051) in relation to the Surface Water Quality Monitoring Program.

As an approved ER for the Sydney Metro Western Sydney Airport project and as required by Conditions A32(d) and C19 on the basis of the above, the Surface Water Quality Monitoring Program (Revision E), is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Alex Gale
Environmental Representative – Sydney Metro Western Sydney Airport

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4 October 2022

Ref: 201209(b)_CEMP_R2.0

Dear Hugh

**RE: Endorsement of Construction Environmental Management Plan - Sydney Metro
Western Sydney Airport Station Boxes and Tunnelling Works**

Thank you for providing the Construction Environmental Management Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works (Revision 2), dated 27 September 2022 (the CEMP) for Environmental Representative (ER) review and endorsement, as required by Conditions of Approval C1, C2/C3 and C13 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 July 23, 2021).

The CEMP contains the Construction Monitoring Program – Air Quality (CMP-AQ), therefore, that Construction Monitoring Program forms part of this review and endorsement.

I note that:

- Previous versions of the document have been reviewed and updated following comments from the ER
- Sydney Metro have also reviewed and commented on the relevant documents
- Evidence of consultation records has been provided to the ER for the CMP-AQ
- Following the above reviews, the documents are considered to contain information and consultation (CMP-AQ only) required



Accordingly, as an approved ER for the Sydney Metro Western Sydney Airport project, I now consider the CEMP and the CMP-AQ consistent with the requirements in or under the Infrastructure Approval and the undertakings made in the documents listed in Condition A1.

Yours sincerely

Rui Henriques

Environmental Representative – Sydney Metro Western Sydney Airport

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
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PO Box K659
HAYMARKET NSW 1240

11 October 2022

Ref: 201209(b)_CFFMP_R1

Dear Hugh

RE: Endorsement of Construction Flora and Fauna Management Sub-Plan - Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works

Thank you for providing the NSW (Off-Airport) Flora and Fauna Management Sub-Plan-Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works, Revision 1 of 05/10/2022 (SMWSASBT-CPG-SWD-SW000-EV-PLN-000001) for Environmental Representative (ER) review and approval prior to commencement of Construction, as required by Conditions of Approval C1, C5/6 and C8 of the Sydney Metro Western Sydney Airport project (SSI 10051 July 23, 2021):

It is noted that:

- Previous versions of the document have been reviewed and updated following comments from the ER
- Sydney Metro have also reviewed and commented on the document
- Evidence of consultation records have been provided to the ER
- Following the above reviews, the document is considered to contain information and consultation required

Accordingly, as an approved ER for the Sydney Metro Western Sydney Airport project, I now consider the subject CEMP Sub-Plan consistent with the requirements in or under the Infrastructure Approval and the undertakings made in the documents listed in Condition A1.

Yours sincerely



Rui Henriques
Environmental Representative

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
Sydney Metro
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PO Box K659
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26 September 2022

Ref: 201209(b)_CNVMP&CSWMP_R1

Dear Hugh

RE: Endorsement of Construction Noise and Vibration and Soil and Water Management Sub-Plans - Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works

Thank you for providing the following documents for Environmental Representative (ER) review and approval prior to commencement of Construction, as required by Conditions of Approval C1, C5/6 and C13 of the Sydney Metro Western Sydney Airport project (SSI 10051 July 23, 2021):

- NSW (Off-airport) Construction Noise and Vibration Management Sub-plan - Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works, Revision 1 of 23/09/2022 (Doc No. SMWSASBT-CPG-1NL-NL000-NV-PLN-000001)
- NSW (Off-Airport) Soil and Water Management Sub-Plan - Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works, Revision 1 of 21/09/2022 (SMWSASBT-CPG-1NL-NL000-WA-PLN-000002)

The Construction Noise and Vibration Management Sub-Plan and the Soil and Water Management Sub-Plan contain the Construction Monitoring Program – Noise and Vibration, and Construction Monitoring Program – Surface Water Quality and Construction Monitoring Program – Groundwater, respectively. Therefore, those Construction Monitoring Programs form part of this review and endorsement.

It is noted that:

- Previous versions of the documents have been reviewed and updated following comments from the ER
- Sydney Metro have also reviewed and commented on the relevant documents
- Evidence of consultation records has been provided to the ER
- Following the above reviews, the documents are considered to contain information and consultation required

Accordingly, as an approved ER for the Sydney Metro Western Sydney Airport project, I now consider the subject CEMP Sub-Plans and Construction Monitoring Programs consistent with the requirements in or under the Infrastructure Approval and the undertakings made in the documents listed in Condition A1.

Yours sincerely



Rui Henriques
Environmental Representative



Alex Gale
Environmental Representative

Hugh Chapman
Director Sustainability Environment & Planning SMWSA
Sydney Metro
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HAYMARKET NSW 1240

31 October 2022

Ref: 201209(c)_CEMP_RC

Dear Hugh

RE: Endorsement of Construction Environmental Management Plan, Air Quality Construction Monitoring Program and Non-Aboriginal Heritage Management Sub Plan - Sydney Metro Western Sydney Airport Surface and Civil Alignment Works

Thank you for providing the following documents for Environmental Representative (ER) review and endorsement, as required by Conditions of Approval C1, C2, C3, C6, C8 and C13(d) of the Sydney Metro Western Sydney Airport project approval (SSI 10051 July 23, 2021):

- Construction Environmental Management Plan Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision C), dated 20/10/2022 (the CEMP) (document number SMWSASCA-CPU-1NL-NL000-EV-PLN-000001).

The CEMP contains the following construction works sub-plan and monitoring program:

- Air Quality Construction Monitoring Program Revision D, dated 27/8/2022 (AQCMP) (document number SMWSASCA-CPU-1NL-NL000-AH-PLN-000001).
- Non-Aboriginal Heritage Management Sub-Plan Revision D, dated 28/9/2022 (NAHMP) (document number SMWSASCA-CPU-1NL-NL000-HE-PLN-000001).

Therefore, these plans and programs form part of this review and endorsement.

It is noted that:

- Previous versions of the documents have been reviewed and updated following comments from the ER.
- Sydney Metro have also reviewed and commented on the relevant documents.
- Evidence of consultation records has been provided to the ER for the AQCMP.
- Following the above reviews, the documents are considered to contain the information and consultation (AQCMP only) required.

Accordingly, as an approved ER for the Sydney Metro Western Sydney Airport project, I now consider the CEMP, the AQCMP and NAHMP consistent with the requirements in or under the Infrastructure Approval and the undertakings made in the documents listed in Condition A1.

Yours sincerely



Alex Gale
Environmental Representative – Sydney Metro Western Sydney Airport



HBI

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7 October 2022

Ref: 201209(c)_PCEMP_RF

Dear Hugh

RE: Endorsement of Construction Environmental Management Plan – Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works

Thank you for providing the following documents for Environmental Representative (ER) review and approval prior to commencement of Construction, as required by Conditions of Approval C1, C2, C3, C6 and C8 of the Sydney Metro Western Sydney Airport project (SSI 10051 July 23, 2021):

- Construction Environmental Management Plan - Preparatory Works, Sydney Metro Western Sydney Airport Surface and Civil Alignment Works (Revision F), dated 6 October 2022 (the PCEMP)

The PCEMP contains the following preparatory construction works sub-plans:

- Air Quality Management Plan Revision 1, dated 28/9/2022
- Spoil Management Plan Revision 1, dated 28/9/2022
- Soil and Water Management Plan Revision 1, dated 28/9/2022.

Therefore, those plans form part of this review and endorsement.

It is noted that:

- Previous versions of the documents have been reviewed and updated following comments from the ER
- Sydney Metro have also reviewed and commented on the relevant documents
- Following the above reviews, the documents are considered to contain the information and consultation required



Accordingly, as an approved ER for the Sydney Metro Western Sydney Airport project, I now consider the PCMP and Sub-Plans consistent with the requirements in or under the Infrastructure Approval and the undertakings made in the documents listed in Condition A1.

Yours sincerely

Rui Henriques
Environmental Representative

Alex Gale
Environmental Representative