

Pre-Construction Minor Works Approval Form

Minor Works are defined as any low impact activities that are undertaken prior to the commencement of 'construction' as defined in the project's applicable planning approval. However if Minor Works affect or potentially affect heritage items, threatened species, populations or endangered ecological communities, these works are defined as 'construction' unless otherwise determined by the applicable planning authority.

Minor Works approvals do not remove any obligation to comply with the project's applicable planning approval conditions (including requirements prior to 'any works' commencing) or obtain any other applicable permits, licenses or approvals as necessary.

This application and all supporting information must be submitted to TfNSW/the Environmental Representative as one (1) PDF file at least 10 business days prior to the commencement of the proposed Minor Works.

Part 1: Application	
Contractor:	Laing O'Rourke
Project:	Sydney Metro – City and Southwest – Chatswood to Sydenham Central Station Main Works
Application Title: (e.g. Smith St trenching works)	Visual inspections, survey
Application Number:	CSMW 005
Application Date:	Revision 1 – 27 April 2018 Revision 2 – 2 May 2018 Revision 3 – 2 May 2018 Revision 4 – 2 May 2018 Revision 5 – 3 May 2018
Planning Approval:	SSI 15_7400 Mod 2 - Central Walk - Sydney Metro City & Southwest - Chatswood to Sydenham (SSI Mod)
Minor Works Categories: <ul style="list-style-type: none"> Highlight as applicable. If Items 4, 8 or 11 are applicable, this form must be endorsed by an Environmental Representative. 	<ol style="list-style-type: none"> Survey, survey facilitation and investigations works (including road and building dilapidation survey works, drilling and excavation). Treatment of contaminated sites. Establishment of ancillary facilities (excluding demolition), including construction of ancillary facility access roads and providing facility utilities. Operation of ancillary facilities that have minimal impact on the environment and community. Minor clearing and relocation of vegetation (including native). Installation of mitigation measures, including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments. Property acquisition adjustment works, including installation of property fencing and utility relocation and adjustments to properties. Utility relocation and connections. Maintenance of existing buildings and structures. Archaeological testing under the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010) or archaeological monitoring undertaken in association with other Minor Works to ensure there is no impact on heritage items. Any other activities that have minimal environmental impact, including construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access.
Planning Authority Determination: Will the proposed works affect or	No. The works do not have the potential to impact on threatened species, populations or endangered ecological communities. The works are within the Sydney Terminal and Central Railway Station curtilage (SHR

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have the potential to affect heritage items, threatened species, populations or endangered ecological communities? no.01255) however there will not be any impacts to the heritage significance of any items.

Part 2: Details

<p>Describe the proposed Minor Works: Including work methodologies, site location(s) and site description(s) (e.g. landscape type, waterways, etc.).</p>	Work Activity	Location	Plant and equipment	Indicative timing
	Visual inspections and survey within the CSMW site	Central Station Main Works (CSMW) site	Survey equipment Cameras Plastic tapes Track trolley Site utes	Standard construction hours 3 May – 11 June 2018
	Visual inspections and survey outside the CSMW site.	Eddy Avenue, Regent Street, Chalmers Street, Devonshire Street, Randle Street, Elizabeth Street and Cleveland Street.	Survey equipment Cameras Plastic tapes Site utes	
	Non-intrusive cable tracing and identification	CSMW site.	Site ute This work involves lifting pit lids and inspecting cable trays. No other plant or equipment is required.	
	Tong test distribution board electrical testing of current)	Guard Rooms on Platform 20-23	Tong Tester (clamp with electrical meter)	
<p>1. Note – all works outside standard hours will require a separate OOH work application. Site layout is shown on the ECM in Appendix 1.</p> <p>2. Visual inspections and survey will take place in the vicinity of the proposed path of the tunnel boring machine that is planned to pass through Central Station</p>				
<p>The surrounding land uses are roads including Lee, Chalmers, Devonshire, Regent, Cleveland and Gibbons Streets and Eddy Avenue, the rail corridor and associated infrastructure, office buildings, a hotel and Prince Alfred Park.</p> <p>The works would be carried out in a highly disturbed, urban environment and there are no waterways within 50 metres.</p>				

Planned Commencement Date: Monday 3 May 2018.

Local Sensitivities:
Describe the presence (if any) of local sensitive environmental areas and community receptors.

Heritage – The works are within the Sydney Terminal and Central Railway Station curtilage (SHR no.01255).
Community – Some of the activities including survey will be visible to residents on streets surrounding Central Station including Eddy Avenue, Chalmers Street, Lee Street and Regent Street however these works are inaudible.

Part 3: Environmental Risk Assessment and Management

Prepare an Environmental Risk Assessment (in accordance with the *Sydney Metro Risk Management Standard*) and an Environmental Control Map for the proposed Minor Works and attach as Appendix 1.
If an Environmental Risk Assessment and/or an Environmental Control Map for the proposed Minor Works is/are already contained in existing documentation, attach the relevant section(s) as Appendix 1.

Documentation:
List any existing documents (including those referenced above) that the proposed Minor Works will be undertaken in accordance with and attach as

- Sydney Metro Construction Environmental Management Framework.
- Sydney Metro City and Southwest, Chatswood to Sydenham, Planning approval SSI 15_7400.
- Mod 2 - Central Walk - Sydney Metro City & Southwest - Chatswood to Sydenham (SSI Mod)

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Appendix 2 (e.g. plans, procedures, procedures, etc.).	- Sydney Metro Community Communications Strategy – Early Works
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Part 4: Workforce Notification

How will the environmental and community risks and associated mitigation measures of the proposed Minor Works be communicated to the contractor’s workforce?	All workers will undertake Sydney Metro Orientation Training & CSMW specific induction. In addition, there will be a pre-start briefing undertaken by the worksite manager at the start of shift for all work groups. This will detail the environmental and community risks.
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Part 5: Community Consultation

What community consultation has been undertaken already?	No consultation in regards to these activities.
What community consultation is planned to be undertaken?	The investigations are inaudible and a Community Notification is not required.
If drafted already, attach applicable Community Notification as Appendix 3.	


Part 6: Contact Details

Nominate contractor’s project manager, environmental and communications contact(s).

Name:	Jamie Jack	Position:	Project Leader	Phone:	0477 355 531
	Chris McCallum		Environmental Manager		0408 264 164
	Peter Whelan		Communications and Stakeholders Manager		0403 133 490

Part 7: Signature

This signature acknowledges that the proposed Minor Works will be undertaken in accordance with this application, have minimal environmental impact and are not defined as 'construction' in accordance with the applicable planning approval.

Name:	Chris McCallum		
Signature:		Date:	3/05/18

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Determination Page

(TfNSW/Environmental Representative Use Only)

12. Endorsement/Approval			
These signatures represent formal endorsement/approval for the proposed Minor Works to commence in accordance with this application and the applicable planning approval requirements (subject to any determination from the applicable planning authority as may be required by the planning approval conditions).			
	TfNSW Principal Manager, Communication & Engagement – Endorsement (required for all applications)	TfNSW Principal Manager, Sustainability, Environment & Planning – Approval (required for all applications)	Environmental Representative – Endorsement (required as necessary in accordance with the applicable planning approval, optional for all other circumstances)
Signature:			
Name:	Anne Patawaran	<i>Fil Cerone</i>	Annabelle Tungol Reyes
Date:	3 May 2018	<i>3/5/18</i>	3 May 2018
Comments:			<i>Supporting letter attached as Appendix 4 if necessary.</i>
Conditions:			<i>Supporting letter attached as Appendix 4 if necessary.</i> Survey works only with no impact to heritage areas.
<input checked="" type="checkbox"/> Approved (by TfNSW)			
<input checked="" type="checkbox"/> Endorsed (by Environmental Representative)			
<input type="checkbox"/> Rejected			

Appendix 1: Cover Page

Environmental Risk Assessment and Environmental Control Map.



Risk Assessment Rankings: >17 = Extreme 10 - 16 = High 5 - 9 = Medium 1 - 4 = Low

Issues or activities that represent an Extreme risk after the application of control measures are not to be undertaken

Aspect	Potential Environmental Impact	Initial Risk Rating			Control Measures	Residual Risk Rating		
		P X	C =	Risk		P X	C =	Risk
Approvals and Licensing								
Not identifying appropriate approvals / licenses required or proceeding without them.	Works delayed, infringements, prosecution and reputational loss.	P	3	M	Planning approval has been granted for the Sydney Metro City and Southwest - Chatswood to Sydenham works (SSI 15_7400). Mod 2 - Central Walk - Sydney Metro City & Southwest - Chatswood to Sydenham (SSI Mod) This minor works application is being completed to ensure appropriate documentation is completed to manage the environmental risks of the project. No permanent construction works are to be completed. The Sydney Metro City and Southwest Chatswood to Sydney Conditions of Approval (SSI 15_7400) defines low impact work to include: - Survey and survey facilitation;	U	3	M

Noise								
Noise from the minor works.	Disturbance to residents or neighbouring businesses with potential for complaints.	U	2	L	Control measures as per Community Consultation Strategy (CCS) are to be implemented. Consult with the community in relation to upcoming activities that may result in concern. Visual inspections, survey and cable inspections and tracing will be inaudible at surrounding receivers. Works will be undertaken during standard construction hours only.	U	2	L
Vibration								
Vibration intensive activities undertaken on the site in proximity to sensitive heritage structures and community.	Damage to listed heritage items. Disruption, annoyance and nuisance to residents. Potential damage to adjacent residential and commercial residences and structures. Disruption to businesses as a result of vibration nuisance	U	4	M	None of the activities proposed are considered to be vibration intensive activities.	R	2	L
Water Quality, Erosion & Sedimentation								
Sediment laden runoff from investigation works leaving site.	Degradation of local watercourses. Increased turbidity in local water ways resulting in impact on aquatic life. Fines for sediment escaping site.	U	3	M	No excavation is proposed. Existing stormwater drains will be identified prior to minor works. Sand bags / sediment controls to be installed where required.	R	3	L
Non-compliant water from investigation works discharged from site	Non-compliant water entering stormwater system waterways (i.e. polluting - not compliant with discharge criteria).	P	3	M	Induction and toolbox talks; educate site staff on licence conditions and consequences of prosecution. No water discharge anticipated for the works. If required, Environmental Manager/representative to approve all water discharges from site	R	2	L



Waste									
Waste disposal during works.	Incorrect disposal of waste, further costs incurred for classifications and disposal, fines may be issued.	P	2	M	Ensure accurate waste records are retained and recorded in monthly project report. Removal of wastes from the site would only be undertaken by a licensed contractor as required by the POEO Act All material that requires off-site disposal to be appropriately classified against the Waste Classification Guidelines (DECC, 2008).	U	2	L	
Contamination									
Potential for discovery of unexpected contaminated spoil during works involving excavation.	Health effects resulting from airborne contamination, e.g. asbestos. Complaints received from odours.	P	3	M	No excavation for works. If contaminated soil is encountered, all works are to stop in the vicinity of the find and investigations commence. Induct personnel on location, type, nature, concentration of contaminants on site if found.	P	2	L	
Hazardous Materials									
Storage of hazardous substances, leaking plant and equipment and spillage from refuelling.	Localised ground contamination / pollution of stormwater and requiring clean-up and/or receiving fines. Risk of igniting volatile substances.	U	3	M	No fuels or hazardous materials to be stored on site for minor works. Spill kits to be onsite when using plant/equipment. No major servicing of equipment to be undertaken onsite. Pre-mobilisation checks on all plant/equipment to come to site, including check of fuel and hydraulic leaks.	R	3	L	
Biodiversity									
Vegetation trimming / clearing required outside approved work area.	Unauthorised works / removal of vegetation outside defined work area, possibility of removing threatened species, fines incurred.	R	3	L	No vegetation removal/trimming for the works.	R	1	L	

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Clearing and grubbing of vegetation within work site.	Erosion of soils, uncontrolled runoff, sediment deposited into surrounding vegetated areas and water courses, and invasion of weeds. Wrong vegetation removed. Potential for injury to native fauna.	R	3	L	No vegetation clearing for the works.	R	1	L
Air Quality								
General works; investigative excavations	Dust activity in close proximity to residential and commercial premises, complaints received.	U	3	M	No excavations for works.	R	2	L
Exhaust from plant and equipment.	Emissions resulting in air pollution.	U	3	M	Well maintained plant/ equipment and pre-start checks and servicing. Non-complaint vehicles removed from site / repaired.	R	2	L
Heritage								
Unexpected heritage items encountered.	Work delays, additional studies, approvals required, damage to heritage item.	P	3	M	General inductions on heritage management 'stop-works' protocol. If suspected heritage item encountered. Works to stop immediately and Environmental Manager contacted. Unexpected finds of heritage items must be reported to LOR Environmental Manager and Sydney Metro. The site is to be isolated and investigated by a heritage consultant. Approval to proceed required prior to re-commencing works. Label any known heritage items on Environmental Control Maps.	P	2	M
Flora & Fauna								
Removal of flora without approval.	Failure to identify flora prior to removal.	R	3	L	No vegetation will be removed as part of the works.	R	1	L

Traffic								
Loss of on-street car parking in adjacent residential streets and commercial areas during works.	Loss of parking availability to adjacent residential and commercial properties could result in community complaints.	P	3	M	Site vehicles shall be parked within the rail corridor and not affect public parking area No road/lane closures required.	U	3	L
Management of heavy vehicles / access routes.	Complaints from sensitive receivers due to increased level and frequency of noise.	P	3	M	No heavy vehicles required as part of the works	U	3	M
Truck deliveries out of normal working hours (un-approved).	Noise impact to community / potential complaints.	P	4	M	No heavy vehicles required as part of the works	U	4	M
Resources and Energy Use								
Energy consumption by plant and equipment.	Inappropriate energy use, waste of energy recourses, energy wastage costs, increased greenhouse gas emissions.	U	2	L	No plant required as part of the works	R	2	L
Resource usage (e.g. building materials, water, fuels, packaging), waste generation and disposal	Depletion of resources due to wastage (e.g. wastage of water / no recycling, poor management of procurement, ineffective removal of off-cuts, waste, i.e. no recycling).	U	2	L	Subcontractor's agreements to include project compliant waste management principles. Waste management undertaken in accordance with the <i>Waste Avoidance and Resource Recovery Act 2001</i> .	U	2	L

For each identified issue, consider the 'maximum credible' (not absolute worst case) risk that could result with **minimal or no controls** other than existing and using normal work practices.

Note: Any one of the listed consequences must result in the use of the applicable consequence grading.

Probability: 5 = Certain 4 = Likely 3 = Possible 2 = Unlikely 1 = Rare	Consequence: 5 = Severe 4 = Major 3 = Moderate 2 = Minor 1 = Incidental
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1- 4 Acceptable 5 - 9 Acceptable with control measures 10 - 16 Requires the implementation of best practice 17 and Above = UNACCEPTABLE

5	Certain	<ul style="list-style-type: none"> Common or repeating occurrence Consequence can reasonably be expected to occur in life of Project. 	5	Severe	<ul style="list-style-type: none"> Major pollution incident causing significant and widespread damage or potential to health or the environment Persistent reduction in ecosystem function and value. Ongoing disruption and loss of protected species. Major prosecution likely, outcome in excess of \$500,000
4	Likely	<ul style="list-style-type: none"> Known to have occurred / "has happened" Conditions may allow the consequence to occur on the Project during its lifetime The event has occurred within the Business Unit within the previous 5 years. 	4	Major	<ul style="list-style-type: none"> Significant widespread and persistent changes to habitat, species or environmental media Significant pollution incident causing damage or potential damage to health or the environment external to the site. Potential for prosecution. Potential outcome between \$50,000 - \$500,000 Numerous substantial complaints Actual material environmental harm
3	Possible	<ul style="list-style-type: none"> Could occur / "heard of it happening" Exceptional conditions may allow consequences to occur on the Project, or has occurred nationally within the Australian Business. 	3	Moderate	<ul style="list-style-type: none"> Localised irreversible habitat loss or effects on habitat, species or environmental media Reportable incident to the relevant environmental regulator or other authority. Demonstrated breach of legislative, licence or guideline requirements. Likely infringement notice or fine, potential for prosecution up to \$50,000. Will cause complaints.
2	Unlikely	<ul style="list-style-type: none"> Not likely to occur Reasonable to expect that the consequence will not occur on the Project. Has occurred in industry but not in Business Unit. 	2	Minor	<ul style="list-style-type: none"> Localised degradation of habitat or short term impacts to habitat, species or environmental media. Pollution incident that marginally exceeds licence conditions or guidelines for acceptable pollution. Fine unlikely. Potential for complaints.








1	Rare	<ul style="list-style-type: none"> – Practically impossible – Not known to have occurred in industry or unheard of. 	1	Incidental	<ul style="list-style-type: none"> – Localised or short term effects on habitat, species or environmental media. – Fully contained on site and can be fully remediated. Little potential for fine or complaints. – Insignificant or trivial incident
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Probability ►	CERTAIN	LIKELY	POSSIBLE	UNLIKELY	RARE
▼ Consequence	5	4	3	2	1
5 – Severe	25	20	15	10	5
4 – Major	20	16	12	8	4
3 – Moderate	15	12	9	6	3
2 – Minor	10	8	6	4	2
1 – Incidental	5	4	3	2	1

Central Station Main Works 005 ECM

 Inspection zone

- Legend:
-  Worksite for site office, toilet, welfare and first aid shed
 -  Sensitive receivers
 -  Access
 -  Curtilage of SHR item no. 01255
 -  Mortuary Station



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Environmental Management - Environmental Control Map Central Station Main Works 005

Investigative Work / Environmental Aspect	Description
Works	<ul style="list-style-type: none"> - Site inspections by Engineers - Surveyors conducting initial site set-out - Non-intrusive cable tracing and identification.
Program	3 May to 11 June 2018 Standard construction hours
Induction / General	<ul style="list-style-type: none"> • All staff and contractors to be trained on the sensitive heritage environment they are working in and the location of sensitive receivers near the works, the worksites and access points. Other relevant environmental issues will also be discussed. • Daily pre-start/toolbox meetings to include this Environmental Controls Map and to address specific day to day environmental concerns. • This ECM will be displayed on site at worksites and accommodation.
Soils and water	<ul style="list-style-type: none"> • Sandbags / silt socks to be placed around drain inlets adjacent/downslope.
Air Quality	<ul style="list-style-type: none"> • No air quality related issues are expected to be encountered.
Waste	<ul style="list-style-type: none"> • Maintain waste dockets for the site.
Heritage	<ul style="list-style-type: none"> • A number of items of heritage significance have been identified adjacent to the proposal area, the items include: <ul style="list-style-type: none"> ○ Mortuary Station – no access to Mortuary Station is permitted. ○ Co-Masonic residential building - no access is permitted. • If intact subsurface elements are uncovered during the works all work in the vicinity of the find must cease and appropriate advice would be sought from OEH and/or heritage consultants. • If previously unidentified Indigenous heritage items are uncovered during the work, all work in the vicinity of the find must cease and appropriate advice would be sought from OEH and/or heritage consultants. • Work in the vicinity of the find would not re-start until clearance has been received. • Unexpected finds of heritage items must be reported to Sydney Metro. The State Heritage listed Sydney Terminal and Central Railway Station curtilage (SHR no.01255) is at the proposed works. • Unexpected finds of heritage items must be reported to LOR Environment Manager and Sydney Metro.
Noise and Vibration	<ul style="list-style-type: none"> • All out of hours works require approval from the Environmental Manager and Sydney Metro. • Residential receivers on Regent Street adjacent works will be notified of the works via a letter. • All plant used regularly on site will have non-tonal alarms. • Turn off plant and equipment that is not being used. • Ensure plant is regularly maintained, and repair or replace equipment that becomes noisy. • Monitor noise levels, as required, to ensure compliance with project noise management levels. • All works will be completed in compliance with Sydney Metro CEMF, SSI 15_7400 Planning Approval, Mod 2 - Central Walk - Sydney Metro City & Southwest - Chatswood to Sydenham (SSI Mod), Sydney Metro City & Southwest Construction Noise and Vibration Strategy and EPL 12208 requirements.
Traffic and Transport	<ul style="list-style-type: none"> • Access to site will be from Regent Street via the SYAB. • Plant movements are restricted to the designated traffic routes. • If plant is required to be delivered outside of normal hours due to safety concerns contact Environmental Manager. • Access requirements will be managed by using existing driveways and hard stand roads into the site areas. • All delivery drivers will be briefed on heritage status of Mortuary Station. • Additional traffic control will be implemented as required.
Utilities	<ul style="list-style-type: none"> • Any impacts to utilities will be reported to site HSE Manager, supervisors, Sydney Trains and Sydney

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	Metro.
Biodiversity	<ul style="list-style-type: none"> No vegetation removal/trimming is permitted as part of the visual inspection and survey. If fauna is encountered on site – stop work and contact the site supervisor.
Chemical and fuel storage and use	<ul style="list-style-type: none"> No fuels or hazardous materials to be stored on site.
Imported materials	<ul style="list-style-type: none"> All sources of imported materials (backfill trench material) must be approved and sourced by appropriately licenced supplier.
No-go zones	<ul style="list-style-type: none"> Access to Mortuary Station is not permitted.

Contact Information

Position	Name	Phone
LOR Project Leader	Jamie Jack	0477 355 531
LOR/Sydney Metro Communications Manager	Peter Whelan	0403 133 490
LOR Environmental Manager	Chris McCallum	0408 264 164
LOR WHS Manager	Richard Keys	0408 966 187
Environmental Representative	Annabelle Reyes	0416 170 480
Sydney Metro Environment Manager	Andrew Hendy	0475 983 494
Sydney Metro City and Southwest Info Line		1800 019 989
Sydney Trains Info Line		131 500
TfNSW Construction Response Line		1800 775 465
TfNSW Info Line		1800 684 490
Environmental Line / Pollution Incident Response Line		131 555
Office of Environment & Heritage Pollution Line		131 555
Emergency		000 or 112 (mobiles)
WIRES		1300 094 737

Standard Working Hours

Unless otherwise approved by the Environmental Manager, works will be restricted to:

- 7:00AM to 6:00PM - Monday to Friday**
- 7:00AM to 1:00PM - Saturdays**
- No work on Sundays or public holidays**

Any works outside of the hours above require OOHW and Environment Managers Approval

Out of hours work

Nil

Appendix 2: Cover Page

Environmental Management Documentation

Appendix 3: Cover Page

Community Notification.

Appendix 4: Cover Page

Environmental Representative Supporting Letter - Refer to Section 12 Determination Page above