

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:	Axicom
Project:	Axicom Monopole Relocation
Application Title: (e.g. Smith St trenching works)	Monopole Removal from within the curtilage of the State Heritage Listed Sydenham Pit & Pumping Station
Application Number:	2
Application Date:	5/10/2018
Planning Approval:	Chatswood to Sydenham EIS and MOD4. The proposed works are not part of any stage of the CSSI, in accordance with Section 3.1.3 of the Staging Report. The works are to facilitate future construction activities to be undertaken as part of the SSJ Stage.
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. 8. 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 have the potential to affect heritage items, threatened species, populations or endangered ecological communities?	<p><i>If 'Yes', this completed form must be endorsed by an Environmental Representative, approved by TfNSW and submitted to the applicable planning authority to determine that the works are not defined as 'construction'.</i></p> <p>Yes</p>

Part 2: Details

Describe the proposed Minor Works and environmental management of anticipated impacts:

Methodology

The removal of the existing telecommunication monopole currently located in the eastern corner of the Sydenham Pit & Pumping Station will be undertaken in accordance with the following method:

1. Setup the appropriate machinery adjacent to monopole (cherry picker and crane).
2. Disconnect steel headframe, slew and place within the pole lay down (refer to Appendix 1 Environmental Control Map). Disassemble within lay-down area and load onto truck for removal from site.
3. Disassemble monopole at joint and remove top half of monopole, slew and place within the pole lay down. Disassemble within lay-down area and load onto truck for removal from site.
4. Remove lower half of monopole, slew and place within the pole lay down. Disassemble from within lay-down area and load onto truck for removal from site.
5. Remove all equipment, slew and place within the pole lay down areas. Disassemble within lay-down area and load onto truck for removal from site.

Work Hours

The proposed works are expected to take approximately 2 weeks during standard hours only (i.e. 7am – 6pm Mon-Fri, 8am-1pm Sat and not on Sunday and public holidays). One night of Out of Hours (OOH) works is required to remove the top two metres of the monopole, due to breaching the Obstacle Limitation Surface of Sydney Airport (by approx. 2 metres). As a result, the top two metres of the monopole must be removed outside of Sydney Airport operation hours (11pm-6am).

This OOH work will be subject to the Out of Hours Protocol (approved by the Secretary) and an Out of Hours application to be approved by the Environmental Representative at least 7 days prior to works commencing.

Plant / Equipment / Traffic Management

The following vehicles will be required for the proposed works:

- 2 x heavy rigid vehicles (one to load and transport existing shelters from site and one to deliver and remove concrete recycling skips).
- 50 tonne crane to remove pole.
- A limited number of light vehicles will access/egress the site in accordance with the Appendix 1 Environmental Control Map to support the works.

The crane will be the only equipment permanently stationed onsite for the duration of the works (position in accordance with Appendix 1 Environmental Control Map i.e. within the gated private road, Railway Pde, owned by Sydney Water).

All other vehicles will not be parked overnight onsite. All other vehicles will access/egress the site as required during standard hours for deliveries and pick-ups. Spotters / Lollipop traffic controllers will be used at the gate entrance for all vehicle ingress/egress. Vehicle ingress/egress will be restricted to those vehicles pre-approved by Sydney Water. Since this is a gated private road, this is expected to have negligible impact on local pedestrians and vehicle traffic.

Onsite parking for delivery and pick-up vehicles will be positioned within the gated private road (Railway Pde) owned by Sydney Water in accordance with Appendix 1 Environmental Control Map.

No local roads are proposed to be used. Vehicle access/egress to site is via Sydenham Pde (a state road and consistent with MOD3 haulage route) and Railway Pde (a private road owned by Sydney Water). Refer to Appendix 1 Environmental Control Map. Furthermore with regard to Chatswood to Sydenham Condition of Approval E85, no feasible alternatives are available to access this site (i.e. this is the only vehicle access route to site).

Site amenities comprise of one port-a-loo only.

Noise & Vibration Management

The site is not located near any community sensitive receivers and is surrounded by commercial/industrial properties and railway infrastructure. The nearest residential receiver is located approximately 200m away near corner of Grove St and Unwins Bridge Rd (on the other side of the railway line with several commercial/industrial properties located in between).

All proposed works are above the ground surface and no vibratory-generating equipment is planned to be used, therefore vibration impacts are negligible at worst. An engineering assessment will be carried out to demonstrate that the proposed works will have negligible

	<p>vibratory impacts on the pit at worst. This will be approved by Sydney Water (asset owner) prior to works commencing.</p> <p>Indicative noise assessments predict that the proposed works will be below the road noise criteria and NMLs as determined in MOD4 (i.e. Table 11-2 of MOD4) for standard hours of works. Nevertheless, the following noise mitigation measures will be implemented:</p> <ul style="list-style-type: none"> - No swearing or unnecessary shouting or loud stereos/radios on site. - No dropping of materials from height, throwing of metal items and slamming of doors. - No excessive revving of plant and vehicle engines. - No vehicles unnecessarily left on idle. - Controlled release of compressed air. - Plan traffic flow, parking and loading/unloading areas to minimise reversing movements within the site. - Non-tonal reversing beepers (or an equivalent mechanism) must be fitted and used on all construction vehicles and mobile plant regularly used on site. <p>Heritage Management</p> <p>The construction works are temporary in nature (approximately 2 weeks) and therefore not expected to have any impact on the long term heritage character of the Sydenham Pit & Pumping Station. In fact, the works are expected to contribute to the heritage character by removing an 'intrusive item' (refer to Appendix 5 OEH Consultation Comments).</p> <p>The monopole is not a significant influence on the heritage character of the Sydenham Pit & Pumping Station. The monopole is an intrusive element that was constructed many years following the establishment of the Sydenham Pit. This telecommunications monopole has no associated meaning in the context of the overall significance of the Sydenham Pit & Pumping Station. The scope of work is limited to the removal of the monopole only and no significant fabric will be impacted during the works.</p> <p>An archival photographic report has been prepared to ensure the monopole's presence is recorded. This archival report is attached as Appendix 2 for reference.</p> <p>The monopole will be fully dismantled and removed without the need for any excavation works. As such there will be no archaeological impacts resulting from its removal.</p> <p>Erosion and Sediment Control Management</p> <p>There are no works that are disturbing groundcover (i.e. all hardstand), therefore risk of erosion and dust is negligible.</p>
<p>Planned Commencement Date:</p>	<p>December 2018</p>
<p>Local Sensitivities: Describe the presence (if any) of local sensitive environmental areas and community receptors</p>	<p>Sydenham Pit & Pumping Station (state heritage listed).</p> <p>The site is not located near any community sensitive receivers and is surrounded by commercial/industrial properties and railway infrastructure.</p> <p>The nearest residential receiver is located approximately 200m away near corner of Grove St and Unwins Bridge Rd (on the other side of the railway line with several commercial/industrial properties located in between).</p>

Part 3: Environmental Risk Assessment and Management

Prepare an Environmental Risk Assessment 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.

<p>Documentation: List any existing documents (including those referenced above) that the proposed Minor Works will be undertaken in accordance with and attach as Appendix 2 (e.g. plans, procedures, procedures, etc.).</p>	<ul style="list-style-type: none"> - Environmental Risk Assessment and Environmental Control Map - Community Communications Strategy – Early Works (<i>available on Sydney Metro website</i>)
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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?

The environmental and community risk will be communicated to the contractor during an onsite meeting. During this on site meeting the minor works permit, environmental control map and the environmental impact assessment will all be presented to the contractors so that they are aware of risks and the mitigation measures.

Part 5: Community Consultation

What community consultation has been undertaken already?

Local community has received consultation on the Sydney Metro project in general, including SSJ and TSE notifications for works in local area. Over recent weeks, local receivers have been notified of other early works associated with the Axicom monopole relocation.

What community consultation is planned to be undertaken?

Surrounding properties will be provided a community notification regarding these works at least 7 days prior to works commencing in accordance with the Early Works Community Communications Strategy.

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:	Mr Simon Lord	Position:	Director – Alpha Designs	Phone:	02 9707 1171
					0405 780 157

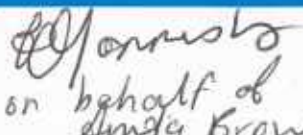


Part 7: Signature

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:	Ms Joanna Ward - Axicom		
Signature:		Date:	5/10/2018

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:	 <i>on behalf of Dante Brown</i>		
Name:	F. Morrisby	FIL CELONE	Jo Robertson
Date:	5/10/18	8/10/18	15/10/18
Comments:	if notification expires & work is not complete a new notification must be issued.		Supporting letter attached as Appendix 4 if necessary. See attached low impact Work endorsement
Conditions:			Supporting letter attached as Appendix 4 if necessary.
<input checked="" type="checkbox"/>	Approved (by TfNSW)		
<input checked="" type="checkbox"/>	Endorsed (by Environmental Representative)		
<input type="checkbox"/>	Rejected		

Mr Fil Cerone
Director, Sustainability Environment & Planning
City & Southwest Metro
Sydney Metro
PO Box K659
HAYMARKET NSW 1240

Our ref: 18/680252

Dear Fil,

Sydney Metro City and Southwest (CSSI 15_7400) Low impact work in heritage areas – removal of Axicom telecommunication monopole tower at Sydenham Pit and Drainage Pumping Station

Thank you for your correspondence of 9 July 2018 seeking the Secretary's determination that the proposed removal of the telecommunication tower at Sydenham Pit and Drainage Pumping Station is not a 'construction' activity under the definition in the infrastructure approval. I also note receipt of additional information from Mr Ben Armstrong on 18 October 2018, responding to the Department's detailed comments and requirements.

The proposed removal of the tower is outlined in your correspondence and attachment titled *Pre-Construction Minor Works Approval Form: Axicom Monopole Relocation* (dated 5 October 2018) 'Pre-Construction Minor Works Approval Form'. The tower is within the Sydenham Pit and Drainage Pumping Station site (State Heritage Site) that is listed as State significant on the State Heritage Register (*SHR: No. 01644*).

I understand that although the tower is located within the State Heritage Site, the tower itself does not contribute to the historic, aesthetic or technical significance attributed to that Site. I also note the Office of Environment and Heritage's correspondence of 23 May 2018 confirming that it does not object to the removal of the tower as the State Heritage Site's level of significance would not be altered by that work and no archaeological impacts are to occur as the tower would be fully dismantled without the need for excavation.

On this basis, I determine that the above low impact works described in your letter of 9 July 2018 and the 'Pre-Construction Minor Works Approval Form' as non-construction works. Please ensure you carefully implement the methodology and mitigation measures for these works, as described in the Pre-Construction Minor Works Approval Form. Please also ensure Sydney Water, as the asset owner, approves the final engineering assessment to confirm negligible vibratory impacts on the Sydenham Pit, before the commencement of the works.

I note that you will follow a separate approval process for the re-establishment of the monopole tower at a new location, and its relocation is not part of the current approval.

If you have any queries, please contact Nathan Heath, Planning Officer, Infrastructure Management via email at nathan.heath@planning.nsw.gov.au.

Yours sincerely



Stacy Warren

Director – Infrastructure Management
As delegate of the Secretary

2 November 2018

Appendix 1: Cover Page

Environmental Risk Assessment and Environmental Control Map

Risk Assessment Matrix for Monopole Removal

Aspect	Potential Environmental Impact	Initial Risk Rating	Control Measure	Residual Risk Rating
Noise	Noise from plant impacting surrounding areas	C5 L4 Low	Indicative noise assessments predict proposed works will be below road noise criteria and NMLs as determined in MOD4 (i.e. Table 11-2 of MOD4) for standard hours of works. The following noise mitigation measures will be implemented: <ul style="list-style-type: none"> - No swearing or unnecessary shouting or loud stereos/radios on site. - No dropping of materials from height, throwing of metal items and slamming of doors. - No excessive revving of plant and vehicle engines. - No vehicles unnecessarily left on idle. - Controlled release of compressed air. - Plan traffic flow, parking and loading/unloading areas to minimise reversing movements within the site. - Non-tonal reversing beepers (or an equivalent mechanism) must be fitted and used on all construction vehicles and mobile plant regularly used on site. 	C5 L5 Low
Out of Hour Works	Out of Hour Works have the potential to cause increased noise and vibration impacts on local community.	C3 L5 Medium	One night of Out of Hour (OOH) works is required. This is because the top section of the monopole will breach the Obstacle Limitation Surface of Sydney Airport (by approx. 2 metres). As a result, the top two metres of the monopole must be removed outside of Sydney Airport operation hours (11pm-6am). This OOH work will be subject to the OOH Protocol (approved by the Secretary) and an OOH application to be approved by the Environmental Representative.	C5 L5 Low
Vibration	Vibratory impacts have the potential to damage the structure and heritage significance of the Sydenham Pit & Pumping Station.	C3 L5 Medium	All proposed works are above the ground surface and no vibratory-generating equipment is planned to be used, therefore vibration impacts are negligible at worst. An engineering assessment will be carried out to demonstrate that the proposed works will have negligible vibratory impacts on the pit at worst. This will be approved by Sydney Water (asset owner) prior to works commencing.	C4 L5 Low
Air Quality	Works have the potential to cause dust impacts	C4 L5 Low	No ground disturbance works required. Negligible air quality impacts anticipated.	C4 L5 Low

Road Dilapidation	Works have the potential to dilapidate haulage routes	C3 L5 Medium	Road dilapidation reports are only required to be undertaken on local roads in accordance with the Chatswood to Sydenham planning approval. No local roads are planned to be used for these works (state road and private road only). Nevertheless, a lease agreement has been signed with Sydney Water to access the site. This agreement will manage any dilapidation on Sydney Water's private road (Railway Pde).	C4 L5 Low
Traffic (Vehicular)	Heavy vehicle use having flow on impacts on surrounding road network creating traffic congestion.	C3 L5 Medium	Only three heavy vehicles are proposed to be used during construction (2 heavy rigid vehicles and 50t crane). The crane will remain onsite for duration of works, limiting its impact on local traffic. Vehicles will access the site via Railway Pde (private road) and Sydenham Road (state road). This haulage route is consistent with MOD4. No local roads will be used.	C5 L5 Low
Traffic (Pedestrian)	Works have potential to impact pedestrian traffic	C4 L5 Low	The works are located within an existing private gated area owned by Sydney Water (Railway Pde and Sydenham Pit & Pumping Station) that can only be access by Sydney Water approved personnel. Therefore impact on local pedestrians is negligible. Furthermore, spotters/lollipop traffic controllers will be used at the gate entrance for all vehicle ingress/egress.	C4 L5 Low
Pollution Incident	Works have the potential to soil pollution or water pollution into Sydenham Pit	C4 L5 Low	No materials are being imported to site for use. No liquids are proposed to be used for these works. Potential for spills is negligible. Skips will be brought to site to manage waste/rubbish.	C4 L5 Low
Erosion and Sediment Control	Works have the potential to cause erosion and sediment control	C4 L5 Low	No ground disturbance works are required for this work. Anticipated erosion/sediment impact is negligible.	C4 L5 Low
Visual	Works have potential to impact the visual amenity of the site	C5 L4 Low	Visual amenity of existing site is very low due to nearby railway infrastructure, commercial properties and large construction site adjacent to proposed works. Works are temporary in nature (~2 weeks) and is expected to have negligible long term visual amenity impact on the area.	C4 L5 Low
Community	Works have the potential to disturb the local community	C3 L5 Medium	The site is surrounded by rail infrastructure and commercial/industrial properties. The nearest residential/sensitive receiver is located approximately 200m away near corner of Grove St and Unwins Bridge Rd (on the other side of the railway line with several commercial/industrial properties located in between). Regardless, Sydney Metro has engaged the local community over a long period of time and will notify the community of these upcoming works.	C4 L5 Low

Heritage	Works have potential to impact the heritage character of the site	C3 L5 Medium	Office of Environment and Heritage confirmed that the existing structure (i.e. monopole) 'does not contribute to the historic, aesthetic or technical significance' and is 'intrusive' in nature.	C4 L5 Low
Heritage	Works have the potential to damage the heritage significance of the Sydenham Pit & Pumping Station (e.g. accidental strike, falling of tower in pit).	C3 L5 Medium	<p>Likelihood of risk is low and consequence of risk is low (minimal damage would be caused to the pit in the event that a segment collapses into pit or onto pump station – pump station is built out of reinforced concrete with no material being of heritage significance).</p> <p>Risk is addressed through Sydney Metro approval Safe Work Method Statement covering removal of monopole activities.</p> <p>Controls to be implemented include:</p> <ul style="list-style-type: none"> - Spotters to be used for all lifts/drops to ensure safe lowering of segments to avoid crane contacting obstacles (e.g. guy wires, antennas, the monopole itself). - Tag-line attachments to be used for all lifts/drops. - Radio communication between dogman and crane driver at all times. - Equipment will be fit for service, including daily inspections and routine maintenance. - Immediate reporting of faults and mechanical defects. - Sydney Metro will be onsite to provide sporadic oversight and surveillance of safe work activities. 	C4 L5 Low
Heritage	Recording of the existence of the monopole within the heritage curtilage will be lost.	C3 L5 Medium	An archival photographic report has been prepared to ensure the monopole's presence is recorded. This archival report is attached as Appendix 2.	C4 L5 Low
Heritage (Archaeological)	The works have the potential to impact on archaeological heritage.	C3 L5 Medium	The monopole will be fully dismantled and removed without the need for any excavation works. As such there will be no archaeological impacts resulting from its removal.	C4 L5 Low

Appendix A: Sydney Metro Risk Matrix

A1 Consequence Table

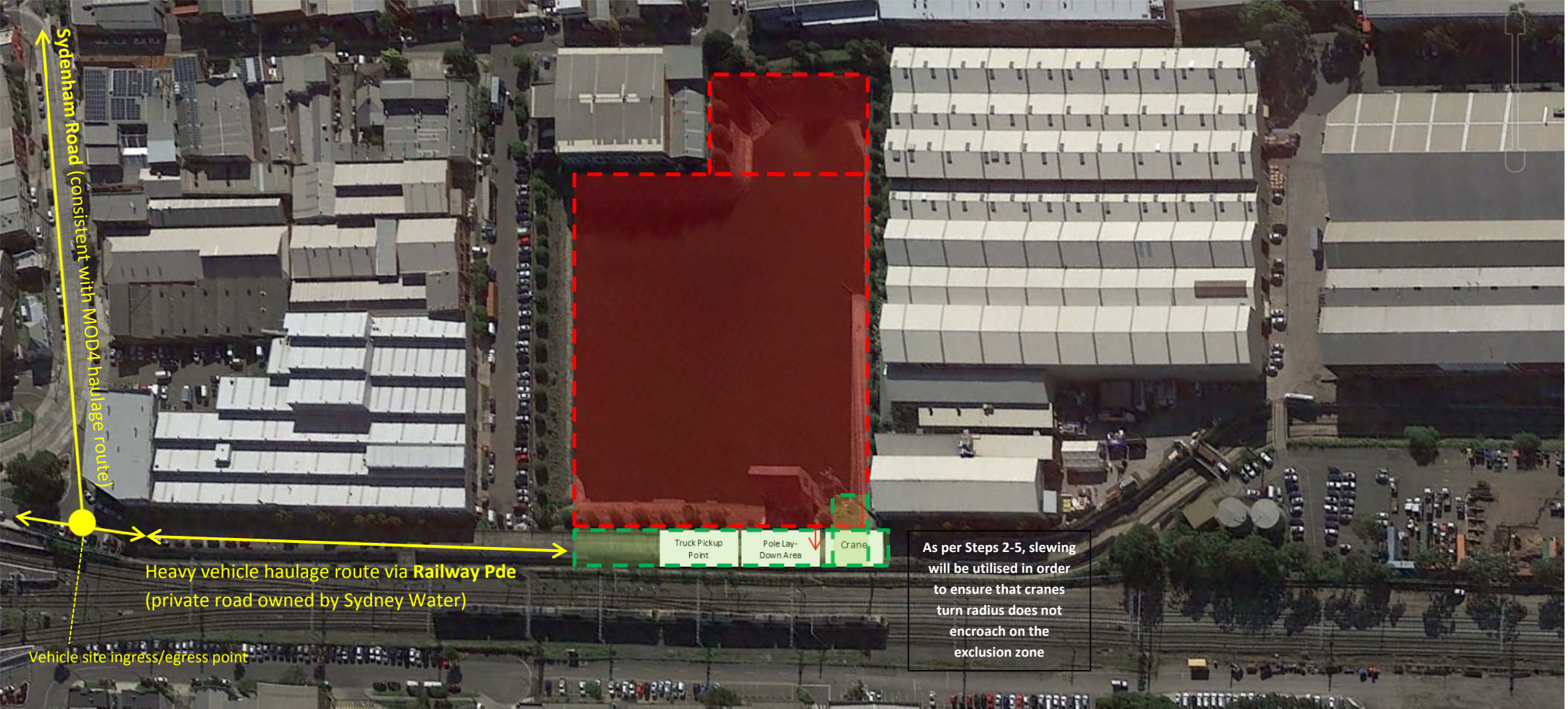
Consequence Table						
Rating	C6	C5	C4	C3	C2	C1
Descriptor/ Impact Area	Insignificant	Minor	Moderate	Major	Severe	Catastrophic
Health and Safety (Injury and Disease)	Illness, first aid or injury not requiring medical treatment.	Illness or minor injuries requiring medical treatment.	Single recoverable lost time injury or illness, alternate/restricted duties injury, or short-term occupational illness.	1-10 major injuries requiring hospitalisation and numerous days lost, or medium-term occupational illness.	Single fatality and/or 10-20 major injuries/permanent disabilities/chronic diseases.	Multiple fatalities and/or >20 major injuries/permanent disabilities/chronic diseases.
Environment	No appreciable changes to environment and/or highly localised event.	Change from normal conditions within environmental regulatory limits and environmental effects are within site boundaries.	Short-term and/or well-contained environmental effects. Minor remedial actions probably required.	Impacts external ecosystem and considerable remediation is required.	Long-term environmental impairment in neighbouring or valued ecosystems. Extensive remediation required.	Irreversible large-scale environmental impact with loss of valued ecosystems.
Customer Experience/ Operational Reliability	Short duration disruptions affecting part of one transport mode.	Minor disruptions affecting several parts of one transport mode.	Serious disruptions affecting operation of one complete transport mode.	Major disruptions affecting operations of one transport mode with network-wide effects on one or more other modes of transport.	Short duration shutdowns or substantial disruptions affecting multiple transport modes with sector-wide cascading effects.	Extensive shutdowns or extended disruptions with economy-wide effects.
Government/ Stakeholder / Public Trust/ Confidence	Negative article in local media. No discernible reaction/apprehension. Goodwill, confidence and trust retained.	Unease – Series of negative articles in local/state media. Confidence remains with some minor loss of goodwill or trust. Recoverable with little effort or cost. Some continuing scrutiny/attention.	Disappointment – Extended negative local/state media coverage. Confidence and trust dented but are quickly recoverable at modest cost within existing budget and resources.	Concern – Short-term negative state/national media coverage. Confidence and trust are diminished but are recoverable with time, staff effort and additional funding.	Displeasure – Extended negative state/national media coverage. Confidence and trust are damaged but recoverable at considerable cost, time and staff effort.	Outrage – Material change in the public perception of the organisation. Confidence and trust are severely damaged, possibly irreparably, and full recovery both questionable and costly.
Regulatory or Legal Breach	Low-level non-compliance with legal and/or regulatory requirement or duty by individuals or TfNSW.	Minor non-compliance with legal and/or regulatory requirement or duty. Investigation and/or report to authority.	Moderate non-compliance. Subject to comment and monitoring from applicable regulator. Small fine and no disruption to services.	Major breach resulting in enforcement action and/or prohibition notices. Substantial fine and no disruption to services.	Substantial breach resulting in prosecution, fines and/or litigation. Licence or accreditation restricted or conditional affecting ability to operate.	Prosecution leading to imprisonment of TfNSW executive. Loss of operating licence.
Management Effort/ Organisational Fatigue	An event, the impact of which can be absorbed as part of normal activity.	An event, the impact of which can be absorbed but some additional management effort is required.	An event, the impact of which can be absorbed but much broader management effort is required.	Major event which can be absorbed, but substantial management effort is required.	Severe event which requires extensive management effort but can be survived.	Catastrophic event with the clear potential to lead to the collapse of the organisation.
Benefit Realisation of Initiative, Program or Project	No time delay with initiative or project but it will incur a slight decrease in the benefits realised.	Minor delay with the initiative and/or a minor decrease in the benefits realised; or minor delay on the project or another project, with no public implications.	Several delays with the initiative and/or moderate decrease in benefits realised; or completion date missed for non-critical path project.	Major delays with the initiative and/or major decrease in benefits realised; or publicly announced portion/milestone missed or final completion date missed with demonstrable mitigating external circumstances.	Severe delays with initiative, which impacts across divisions and/or significant decrease in benefits realised; or publicly announced portion/milestone missed or final completion date missed on critical path project.	Failure to realise benefits of the initiative which adversely affects the enterprise-wide operations of TfNSW; or publicly announced portion/milestone significantly missed or final completion date significantly missed on critical path project.
Budget, Costs or Revenue	< \$100k	\$100k – \$1m	\$1m – \$10m	\$10m – \$50m	\$50m – \$100m	> \$100m

A2 Likelihood Criteria

Likelihood						
Rating	L6	L5	L4	L3	L2	L1
Descriptor/ Definition	Almost Unprecedented	Very Unlikely	Unlikely	Likely	Very Likely	Almost Certain
Qualitative Expectation	Not expected to ever occur during time of activity or project	Not expected to occur during the time of activity or project	More likely not to occur than occur during time of activity or project	More likely to occur than not occur during time of activity or project	Expected to occur occasionally during time of activity or project	Expected to occur frequently during time of activity or project
Sydney Metro Probability Analysis	<10%	10-25%	25-50%	50-75%	75-90%	>90%
Quantitative Frequency	Less than once every 100 years	Once every 10 to 100 years	Once every 1 to 10 years	Once each year	1-10 times every year	10 times or more every year

A3 Risk Matrix

Risk Rating A – Very High B – High C – Medium D – Low			Consequence					
			Insignificant	Minor	Moderate	Major	Severe	Catastrophic
			C6	C5	C4	C3	C2	C1
Likelihood	Almost certain	L1	C	B	B	A	A	A
	Likely	L2	C	C	B	B	A	A
	Possible	L3	D	C	C	B	B	A
	Unlikely	L4	D	D	C	C	B	B
	Rare	L5	D	D	D	C	C	B
	Almost unprecedented	L6	D	D	D	D	C	C



Key

Heritage Curtilage Area

Works Boundary Line

As per Steps 2-5, slewing will be utilised in order to ensure that cranes turn radius does not encroach on the exclusion zone

Appendix 2: Cover Page

Heritage Archival Report

Date: 21/03/2018

Sydney Metro
680 George Street
Sydney NSW 2000

Dear Paul Rogers

Heritage Archival Recording Report – Removal of Existing Telecommunications Facility – Sydenham Drainage Pit

This heritage archival and salvage report is written to address the removal of a telecommunications mobile base station, located on the East North-Eastern corner of Sydenham Pit and Drainage Station.

The Sydenham Pit and Drainage Station holds a level of state importance due to its historic, aesthetic and technical characteristics. The pit and drainage station is the first such infrastructure built as an answer to Sydney's storm water management and combats the areas flooding issues. The Sydenham pit and drainage station was constructed to alleviate hardship and employment issues associated with Australia's great depression. The development utilized a large contingent of labor workers to excavate and construct the pit and drainage station as we see today. Aesthetically, the Sydenham pit and drainage station is a prime example of pre-modernised construction techniques and is a vital landmark showing a window into Sydney's industrial landscape. Technically, the pumping station shows examples of 1930's equipment and construction techniques which have been preserved in situ.

The telecommunications tower is a modern element constructed in 1996. The level of heritage significance will not be altered by the removal of the telecommunications facility. The Telecommunications facility does not contribute to the historic, aesthetic or technical significance attributed to the Sydenham Pit and drainage Station. The following images, taken on 22nd of February 2018, show the Telecommunications facility as it stands today.

It is considered that the removal of the telecommunications facility is a positive impact that will benefit the Sydenham Pit and Drainage Station.



Image 1: Looking directly across the Sydenham Pit & Drainage Pumping Station from the North North-Western boundary



Image 2: Image taken from Railway Parade (South Eastern side of the site) looking towards the Drainage station and telecommunications facility.



Image 3: Image of the telecommunications facility from Railway Parade facing north.



Image 4: Image of the telecommunications facility from Railway Parade facing west.

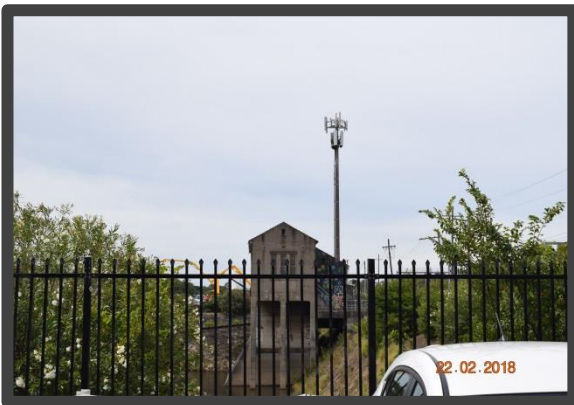


Image 5: Image of the telecommunications facility from Garden Street facing north.

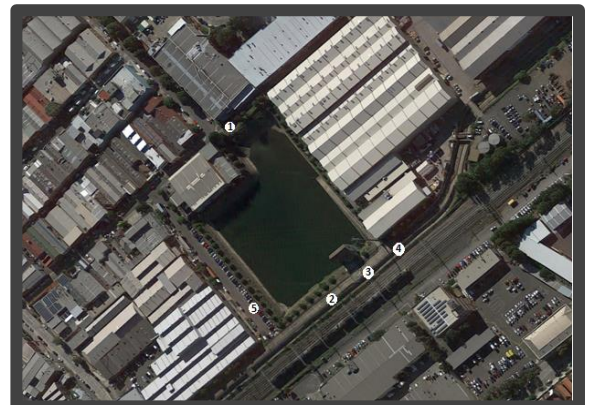


Image 6: Context map, detailing where each of the images was taken from.

Appendix 3: Cover Page

Community Notification (to be prepared pending Secretary determination)

Appendix 4: Cover Page

Environmental Representative Supporting Letter.

Stuart Hodgson
Director
Program Sustainability Environment & Planning
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

16 October 2018

Ref: AXICOM LOW IMPACT WORKS

Dear Stuart

RE: Sydney Metro City & Southwest – Axicom – Monopole Removal - Low Impact Work within the Heritage Areas

Thank you for providing the following documents for Environmental Representative (ER) review and endorsement as required by the Condition of Approval A24 (d) of the Sydney Metro City & Southwest project (SSI – 15_7400 January 9 2017).

- Details of the proposed Pre-construction Activities – Application date 5/10/18, including the associated risk assessment;
- Heritage Archival Recording Report – Removal of Existing Telecommunications Facility – Sydenham Drainage Pit (21 March 2018);
- Office of Environment and Heritage (OEH) Consultation Records - Email of 23 May from the Heritage Division of Office of Environment and Heritage

As an approved ER for the Sydney Metro City & Southwest project, I have reviewed the proposed work and supporting documents provided by Sydney Metro including the updated response to address DPE comments.

Although endorsed by the ER as low impact, as the works are within a listed site, the works may potentially affect heritage items and are thus defined as construction unless otherwise determined by the Secretary in consultation with OEH. Note that OEH consultation describes the following:

“the tower is a telecommunications mobile base station, located on the East North-Eastern corner of Sydenham Pit and Pumping Station. The tower is a modern element built in 1996 and is not of and in itself an item of heritage significance.

The Telecommunications facility does not contribute to the historic, aesthetic or technical significance attributed to the Sydenham Pit and referenced in its Listing on the State Heritage Register. The level of heritage significance will not be altered by the removal of the telecommunications facility.

It is also noted that the proposed works are limited to the removal of the tower only and no significant fabric will be impacted during the works, the Pit itself would not be affected.

The tower will be fully dismantled without the need for any excavation works. As such there will be no archaeological impacts resulting from its removal.

It is concluded that the heritage risks of removing the structure have been appropriately assessed and that there is no objection on heritage grounds to the removal of this non-significant item.”

Minor out of hours works over one night are also required to remove the top two metres of the monopole, due to breaching the Obstacle Limitation Surface of Sydney Airport (by approx. 2 metres). As a result, the top two metres of the monopole must be removed outside of Sydney Airport operation hours (11pm - 6am). Note that this OOH work will be subject to the Out of Hours Protocol (as approved by the Secretary for the CSW project) and an Out of Hours application will be approved by the Environmental Representative and the Acoustic Advisor at with notification at least 7 days prior to works commencing.

We consider the documents submission address all relevant requirements in or under the project approval and are now appropriate for submission to the Secretary for consideration.

Yours sincerely,



Jo Robertson
Environmental Representative – Sydney Metro – City and South West

Appendix 5: Cover Page

OEH Consultation Comments

Koutsamanis, Adam

From: Turner, Ron
Sent: Wednesday, 23 May 2018 3:01 PM
To: Koutsamanis, Adam
Subject: FW: Axicom Tower removal

Adam,

For your action

From: Siobhan Lavelle [mailto:Siobhan.Lavelle@environment.nsw.gov.au]
Sent: Wednesday, 23 May 2018 2:59 PM
To: Turner, Ron
Cc: Felicity Barry; Tim Smith
Subject: RE: Axicom Tower removal

Dear Mr Turner,

Thank you for your email regarding the above matter.

I note that the proposal was assessed by the Pre-Construction Minor Works Approval Form prepared by Sydney Metro and an Environmental Risk Assessment – Marrickville Tower Relocation prepared by Axicom.

It is noted that the tower is a telecommunications mobile base station, located on the East North-Eastern corner of Sydenham Pit and Pumping Station. The tower is a modern element built in 1996 and is not of and in itself an item of heritage significance. The Telecommunications facility does not contribute to the historic, aesthetic or technical significance attributed to the Sydenham Pit and referenced in its Listing on the State Heritage Register. The level of heritage significance will not be altered by the removal of the telecommunications facility.

It is also noted that the proposed works are limited to the removal of the tower only and no significant fabric will be impacted during the works, the Pit itself would not be affected.

The tower will be fully dismantled without the need for any excavation works. As such there will be no archaeological impacts resulting from its removal.

It is concluded that the heritage risks of removing the structure have been appropriately assessed and that there is no objection on heritage grounds to the removal of this non-significant item.

Regards,

Siobhan



Dr Siobhán Lavelle OAM
Senior Team Leader
Specialist Services
HERITAGE DIVISION

Level 6, 10 Valentine Ave, Parramatta
Locked Bag 5020 Parramatta 2124
T 02 9873 8546 M 0455 093962

ALL APPLICATIONS ARE TO BE SUBMITTED TO heritagemailbox@environment.nsw.gov.au OTHERWISE THEY WILL NOT BE PROCESSED

From: Turner, Ron [<mailto:Ron.Turner2@transport.nsw.gov.au>]
Sent: Monday, 7 May 2018 12:05 PM
To: Siobhan Lavelle <Siobhan.Lavelle@environment.nsw.gov.au>
Cc: Felicity Barry <Felicity.Barry@environment.nsw.gov.au>
Subject: Axicom Tower removal

Hi Siobhan,

Please note to avoid potential duplication of filing and allocation of resources, I have not copied this notice to the Heritage Mailbox.

As we discussed earlier to today the attached was prepared by Axicom and sets out the scope including a very basic impact assessment (letter to Tim Smith dated 28 March, note that this letter was not issued o TS) for removal of the telecommunications tower located with the Sydenham Pit curtilage. Given the works will remove an intrusive item without any other impact it fits the definition of low impact works under our SSI approval.

Because Metro are required to seek the Secretary's approval, due to its potential for impact within a listed site, we seek your concurrence on this low impact work.

Please feel free to give me a call if you have any questions.

Regards Ron

Ron Turner
Heritage Program Manager
Sydney Metro
Transport for NSW

M 0410 455 178
E Ron.Turner2@transport.nsw.gov.au
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